



**NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**

An Autonomous Institution Approved by UGC/AICTE/Govt. of Karnataka

Accredited by NBA (Tier-I) and NAAC 'A+' Grade

Affiliated to Visvesvaraya Technological University, Belagavi

Post Box No. 6429, Yelahanka, Bengaluru-560064, Karnataka, INDIA



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

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# **INTERNAL QUALITY ASSURANCE CELL (IQAC)**

## **ACTIVITY REPORT**



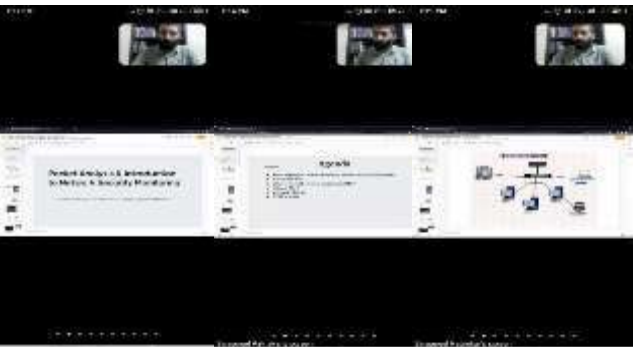
**ACADEMIC YEAR  
2020-21**



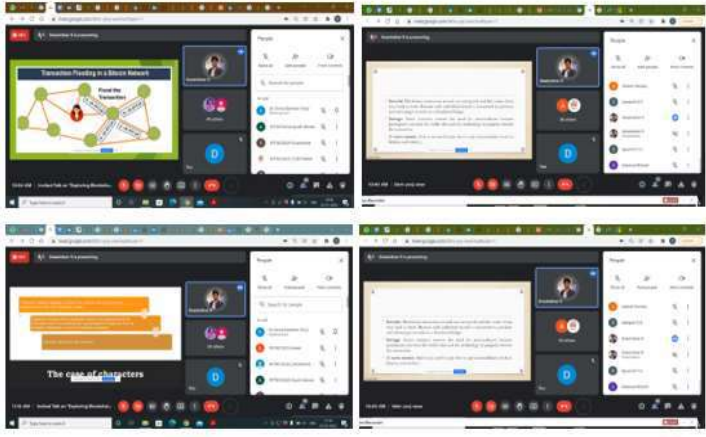
### **Head of the Department**

**Dr. Sarojadevi H  
Professor & Head  
Department of CSE  
NMIT Bangalore**

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## Faculty Empowerment Program - Webinar on Research direction for Critical Research

<b>1. Innovation Tools in Network Security Monitoring</b>	
Date held:	03/01/2022
Organized by:	Department of <b>Computer Science and Engineering</b> in association with the Institution's Innovation Council of NMIT and Computer Society of India of NMIT.
Resource Person(s):	 <p>Mr. Swapneel Patnekar, CEO, Shreshta IT Technologies Pvt Ltd, Belagavi, Karnataka.</p>
Highlights of the Event:	<p>The event was held on 3<sup>rd</sup> Jan 2022 and it focused mainly on the topics of Information Security and Cybersecurity elective courses for the students from the 5<sup>th</sup> Sem and 7<sup>th</sup> Sem.</p> <p>Prevention ultimately fails. With this uncomfortable premise, everyone gets breached. Hence, security does not entail mere defense (firewall, IDS/IPS, etc.), and detection and visibility into the network are crucial and play an essential role from an Incident Response &amp; Threat Hunting perspective.</p> <p>One of the methods to identify, process, and gain visibility into a network is Network Security Monitoring (NSM). This introductory hands-on workshop gives participants the knowledge to begin their journey in network security and network security monitoring.</p>
Outcomes Achieved:	<p>After completing the workshop, participants should be able to:</p> <ul style="list-style-type: none"> <li>● Gain an understanding of the basics of Network Security Monitoring</li> <li>● Capture and read raw packets in Wireshark, tcpdump</li> <li>● Analyze PCAP's containing malicious communication</li> </ul>
Participation:	Nearly there were 100 participants including 15 Faculty members and 85 Students.
Schedule with Proof of Conduction:	 

<b>2. Exploring Blockchain Technology, Risks and Emerging Trends</b>	
Date held:	22 <sup>nd</sup> and 29 <sup>th</sup> January, 2022
Organized by:	Department of <b>Computer Science and Engineering</b> in association with Computer Society of India and SUBEX-Center for Innovation in Cyber Security and IoT.
Resource Person(s):	 <p>Dr. Shashidhara R Blockchain Lead &amp; Chief Technology Officer (CTO) Wipro Limited, Bengaluru</p>
Highlights of the Event:	The Invited talk as a self-driven activity was specially designed to give the best knowledge to participants and enthusiasts. In the invited talk, the necessary details on Blockchain fundamentals, working of Blockchain, Blockchain in action: use cases related to Ethereum, Hyperledger was discussed. The participants learned the latest tools and techniques. This online invited talk is also aimed to discuss the state-of-the-art research and development in Blockchain Technology.
Outcomes Achieved:	<ul style="list-style-type: none"> <li>• Resource person enriched knowledge of the participants about blockchain technology through interaction</li> <li>• Participants earned knowledge of key blockchain concepts, and the pros and cons of using blockchain in research and education.</li> <li>• Participants gained knowledge on how blockchain technology is impacting the global market, and acquire skills that are applicable to understand the emerging ecosystem, as it develops</li> </ul>
Participation:	Nearly there were (55) participants including (5) Faculty members and (50) Students.
Schedule with Proof of Conduction:	 

## Feedback on Faculty from Students

7 <sup>th</sup> SEMESTER				
Sl. No.	Name of the Faculty	Subject with Subject Code	Percentage	Student Feedback 2020-21 (out of 5 M)
1.	Dr. Krishna Rao Venkatesh	High Performance Computing 17CS71 (Sec: B)	75.1	3.76
2.	Mrs. Archana Naik	High Performance Computing 17CS71 (Sec: A)	80.00	4.00
3.	Mrs. Ushashree P	High Performance Computing 17CS71 (Sec: C)	69.50	3.48
4.	Ms Ramya Srikanteswara	Cloud Computing 17CS72 (Sec: A)	81.10	4.04
5.	Ms. Sharmila Shanthi Sequeira	Cloud Computing 17CS72 (Sec: B)	75.00	3.75
6.	Dr. Sarojadevi H.	Cloud Computing 17CS72 (Sec: C)	76.3	3.82
7.	Mrs. Asha H V	Compiler Design 17CS73 (Sec: A)	84.40	4.20
8.	Mrs. Uma R	Compiler Design 17CS73 (Sec: B)	83.80	4.19
9.	Mrs. Kavya B S	Compiler Design 17CS73 (Sec: C)	86.20	4.30
10.	Dr. Vasanthakumar G U	Entrepreneurship Development, Management & IPR 17CSH74 (Sec: A)	73.2	3.68
11.	Dr. Bhuvaneshwari P	Entrepreneurship Development, Management & IPR 17CSH74 (Sec: B)	87.60	4.38
12.	Mrs Jagadevi N Kalshetty	Entrepreneurship	76.20	3.81

		Development, Management & IPR 17CSH74 (Sec: C)		
13.	Dr. Sujata Joshi	Introduction to Deep Learning 17CSE751 Sec : A,B,C	78.87	3.94
14.	Dr. Thippeswamy M N	Block Chain Technologies (17CSE752) SEC: A B C	90.43	4.52
15.	Ms. Shruti B V	Wireless Sensor Networks 17CSE753 Sec: A, B,C	81.56	4.07
16.	Dr. Nalini N	Game Theory 17CSE757 SEC: A, B, C	88 .00	4.40
17.	Mrs. Nirmala J S	Introduction To Business Intelligence and its Applications 17CSO763	75.74	3.8
18.	Mrs. Ramyashree B R	Introduction To Cyber Security 17CSO761 (Sec: C)	83.16	4.15
19.	Dr. Sreenivasa N	High Performance Computing Lab 17CSL77 Se: A, Batch: 1 Se: A, Batch: 3	69.70	3.49
20.	Dr. Bhuvaneshwari P	High Performance Computing Lab 17CSL77 Sec: B , Batch: 1	99.30	4.97
21.	Dr. Bhuvaneshwari P	High Performance Computing Lab 17CSL77 Sec: C , Batch: 3	85.20	4.24
22.	Ms. Shruti B V	High Performance Computing Lab 17CSL77 Sec : B , Batch: 2 & 3	78.90	3.95
23.	Mrs. Ushashree P	High Performance Computing Lab	80.00	4.00

		17CSL77 Sec: C , Batch: 1 & 2		
24.	Dr. Vasanthakumar G U	Product Development Lab 17CSL78	77.80	3.89
25.	Mrs. Uma R	Product Development Lab 17CSL78 Sec: B , Batch: 2 & 3	76.15	3.81

<b>5<sup>TH</sup> SEMESTER</b>				
<b>Sl. No.</b>	<b>Name of the Faculty</b>	<b>Subject with Subject Code</b>	<b>Percentage</b>	<b>Student Feedback 2020-21 (out of 5 M)</b>
1.	Ms Deepthi Shetty	Computer Networks 18CS51 Sec : A	81.9	4.09
2.	Ms. Sowmya M R	Computer Networks 18CS51 Sec : B	89.3	4.47
3.	Ms. Ramyashree B R	Computer Networks 18CS51 Sec : C	85.3	4.26
4.	Mr E G Satish	Software Engineering 18CS52 Sec : A	77.4	3.87
5.	Dr. Vasanthakumar G U	Software Engineering 18CS52 Sec : B	77.2	3.86
6.	Ms. Asha H V	Software Engineering 18CS52 Sec : C	81.4	4.08
7.	Ms Nirmala J Saunshimath	Computer Graphics 18CSE531 Sec : B	81.1	4.06
8.	Dr. Sarojadevi H.	Information Security 18CSE532 SEC: A B C	79.36	3.97
9.	Dr. Mohan B A	Linux Administration Programming 18CSE537 SEC: A B C	77.70	3.89

10.	Dr. Krishna Rao Venkatesh	Internet of Things 18CSE533 SEC: A B C	85.30	4.26
11.	Dr. Anil Kumar	Advanced Web Programming-1 18CSE536 Batch - A	86.96	4.35
12.	Ms Jagadevi N Kalshetty	Advanced Web Programming-1 18CSE536 Batch - B	91.03	4.55
13.	Dr. Vijaya Shetty S	Data Mining 18CS54 Sec: A	84.7	4.22
14.	Ms Chaitra H V	Data Mining 18CS54 Sec : B	81	4.05
15.	Dr. Sujatha Joshi	Data Mining 18CS54 Sec : C	82.6	4.14
16.	Dr. Nalini N	Artificial Intelligence and Neural Networks 18CS56 Sec: A	80.9	4.04
17.	Ms. Archana Naik	Artificial Intelligence and Neural Networks 18CS56 Sec: B	78.6	3.93
18.	Ms Chaitra H V	Artificial Intelligence and Neural Networks 18CS56 Sec: C	81.9	4.1
19.	Ms. Ushashree P	Formal Languages and Automata Theory 18CS57 Sec : A	81.1	4.07
20.	Ms. Shobha P	Formal Languages and Automata Theory 18CS57 Sec : B	88.8	4.45
21.	Ms Kavya B S	Formal Languages and Automata Theory 18CS57 Sec : C	89.6	4.49
22.	Mr E G Satish	Artificial Intelligence With Python Laboratory 18CSL58	74	3.7



		Sec : B , Batch: 2		
23.	Mr E G Satish	Artificial Intelligence With Python Laboratory 18CSL58 Sec: A , Batch: 1	82	4.09
24.	Ms. Archana Naik	Artificial Intelligence With Python Laboratory 18CSL58 Sec: B, Batch: 1 & 3	76.3	3.82
25.	Ms Nirmala J Saunshimath	Artificial Intelligence with Python Laboratory	73.1	3.65
26.	Dr. Mohan B A	Computer Networks Lab 18CSL59 Sec: A, Bach: 1 & 3	85.35	4.25
27.	Ms Ramyashree B R	Computer Networks Lab 18CSL59 Sec : C , Batch: 3		
28.	Ms. Sowmya M R	Computer Networks Lab 18CSL59 Sec : B , Batch: 1 Sec : B , Batch: 3	83.7	4.19
29.	Dr. Sujatha Joshi	Computer Networks Lab 18CSL59 Sec : A , Batch: 2 Sec : B , Batch: 2	72.8	3.64

<b>3<sup>RD</sup> SEMESTER</b>				
1.	Ms Ramya Srikanteswara	Design Of Analog And Digital Circuits 18CS32 Sec : A	83.6	4.2
2.	Mr. Chethan D Chavan	Design Of Analog And Digital Circuits 18CS32 Sec : B	86.40	4.33
3.	Ms. Shobha	Design Of Analog And Digital Circuits 18CS32 Sec : C	86	4.31
4.	Ms. Mahadevi S	Data Structures	78.7	3.93

		18CS33 Sec : A		
5.	Mr. Ramesh Naidu P	Data Structures 18CS33 Sec: B	85	4.24
6.		Data Structures 18CS33 Sec: C		
7.	Dr. Sreenivasa N	Computer Organization and Architecture 18CS35 Sec: A & B	85.85	4.30
8.	Dr. Shiva Darshan S L	Computer Organization and Architecture 18CS35 Sec : C	74.3	3.72
9.	Dr. Vijaya Shetty S	Object-Oriented Programming with C++ 18CS36 Sec: A	82.2	4.11
10.	Mr. Ramesh Naidu	Object-Oriented Programming With C++ 18CS36		
11.	Mr. Vinay T R	Object-Oriented Programming With C++ 18CS36	85.9	4.29
12.	Mr. Chethan D Chavan	Microprocessor Lab 18CSL37 Sec : A , Batch: 1 Sec : A , Batch: 2 Sec : A , Batch: 3	80.93	4.04
13.	Ms. Asha H V	Microprocessor Lab 18CSL37 Sec : B , Batch: 1 Sec : B , Batch: 2 Sec : B , Batch: 3	73.47	3.68
14.	Ms. Mahadevi S	Data Structures Lab 18CSL38 Sec : A , Batch: 1 Sec : A , Batch: 2 Sec : A , Batch: 3	79.23	3.96
15.	Mr. Ramesh Naidu P	Data Structures Lab 18CSL38 Sec: B, Batch: 1 Sec: B, Batch: 2 Sec : B , Batch: 3	83.47	4.16

16.	Ms. Ramya Srikanteswara	Design Of Analog and Digital Circuits Lab 18CSL39 Sec: A, Batch: 1 Sec: A, Batch: 2 Sec: A , Batch: 3	84.27	4.22
17.	Mr. Chethan D Chavan	Design Of Analog and Digital Circuits Lab 18CSL39 Sec: B, Batch: 1 Sec: B, Batch: 2 Sec: B, Batch: 3	87.37	4.36
18.	Ms. Shobha	Design Of Analog and Digital Circuits Lab 18CSL39 Sec: C, Batch: 1 Sec: C, Batch: 2 Sec: C, Batch: 3	82.83	4.14

## MSE QP Quality Review (Internal & external review)

### NMIT-CSE: MSE Question Paper Review (Internal)

All the question papers will be reviewed by the subject mentor and HoD before submitting to coordinators for conduction of the exam

### NMIT-CSE: MSE Question Paper Review (External) Responses

Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
1	Object Orient Programming with C++	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4
		Design of the QP with respect to concepts, length of answers and relative Marks weightage	4
		Structure of the questions with respect to Bloom's taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	4
		Scope for critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4

Any other comments regarding the Question paper:	The question paper pattern is good. The concern is about the course outcomes, faculty may have to revisit
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
2	Computer Organization & Architecture	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4
		Design of the QP with respect to concepts, length	4

		of answers and relative Marks weight age	
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	3
		Toughness level of the question paper	3
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	3
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	3

Any other comments regarding Question paper:	None
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
3	Discrete Mathematical Structures and Graph Theory	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	3
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	3
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	3
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher	3

		level, does the question assess critical thinking?	
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Any other comments regarding Question paper:	Needs improvement in Bloom's taxonomy mapping
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
4	Design of Analog and Digital Circuits	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	3
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	4
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4

Any other comments regarding Question paper:	Revisit BT levels
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
5	Object Orient Programming with C++	Type of questions; with respect to clarity, precise and unambiguous, well	4

		within the comprehension of the student	
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	5
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	4
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4

Any other comments regarding Question paper:	None
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
6	Computer Graphics	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	3
		Discriminating good learner and poor learner	4

		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4
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Any other comments regarding Question paper:	None
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
7	Data Mining	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	5
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	5
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4

Any other comments regarding Question paper:	None
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
8	Artificial Intelligence & Neural Networks	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4



		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	5
		Toughness level of the question paper	5
		Scope of understanding and learning the given topic.	5
		Discriminating good learner and poor learner	5
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	5

Any other comments regarding Question paper:	Question paper is really good but it is always better if we focus on poor learners while setting the question paper. All questions are of L4 level. Need to introduce few L2 and L1 questions also.
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
9	Information Security	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	3
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	3
		Toughness level of the question paper	3
		Scope of understanding and learning the given topic.	3

		Discriminating good learner and poor learner	4
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	3

Any other comments regarding Question paper:	Need to focus on BT levels
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
10	Linux Administration and Programming	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	3
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	4
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4

Any other comments regarding Question paper:	Focus on BT levels
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
11	Formal Languages And Automata Theory	Type of questions; with respect to clarity, precise and unambiguous, well	4

		within the comprehension of the student	
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	3
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4

Any other comments regarding Question paper:	None
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
12	Internet of Things	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	5
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	5
		Scope of understanding and learning the given topic.	5
		Discriminating good learner and poor learner	5

		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	5
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Any other comments regarding Question paper:	Good question paper. Need to concentrate on poor learners. Revisit BT levels(L6,L5, L4)
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
13	Software Engineering	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	5
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	5
		Toughness level of the question paper	5
		Scope of understanding and learning the given topic.	5
		Discriminating good learner and poor learner	5
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	5

Any other comments regarding Question paper:	Concentrate on poor learners. Otherwise QP is good
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
14	Game Theory	Type of questions; with respect to clarity, precise and unambiguous, well	4

		within the comprehension of the student	
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	3
		Toughness level of the question paper	5
		Scope of understanding and learning the given topic.	5
		Discriminating good learner and poor learner	4
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4

Any other comments regarding Question paper:	Course Outcome and BT alignment need to be revisited
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
15	Cloud Computing	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	3
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	4

		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4
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Any other comments regarding Question paper:	Revisit Course outcome and BT mapping
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
16	Compiler Design	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	3
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4

Any other comments regarding Question paper:	None
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
17	Block chain Technologies	Type of questions; with respect to clarity, precise and unambiguous, well	4

		within the comprehension of the student	
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	5
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	5
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	4
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	5

Any other comments regarding Question paper:		None	
Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
18	Deep Learning	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	3

		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4
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Any other comments regarding Question paper:	None
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
19	High Performance Computing	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	5
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	5
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	5
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	5
		Discriminating good learner and poor learner	4
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	5

Any other comments regarding Question paper:	None
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
20	Wireless Sensor Networks	Type of questions; with respect to clarity, precise and unambiguous, well	4



		within the comprehension of the student	
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	4
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	3

Any other comments regarding Question paper:	None
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
21	Data Structures	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	5
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	4

		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	5
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Any other comments regarding Question paper:	None
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
22	Entrepreneurship Development Management & IPR	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	4
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	4
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	4
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4

Any other comments regarding Question paper:	None
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Sl. No.	Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
23	Computer Networks	Type of questions; with respect to clarity, precise and unambiguous, well	4

		within the comprehension of the student	
		Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
		Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	4
		Toughness level of the question paper	5
		Scope of understanding and learning the given topic.	4
		Discriminating good learner and poor learner	4
		Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	5

Any other comments regarding Question paper:	None
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## Review of Industry-Department Interaction (Department Wise)

Sl. No	Name of the Company	Activities
1.	INFOSYS	<ul style="list-style-type: none"> <li>• Campus Connect, Webinars, FDPs</li> </ul>
2.	UNISYS	<ul style="list-style-type: none"> <li>• Research Initiative: Cloud Computing / Quantum Computing / AI &amp; ML</li> <li>• Academia Connect: Monthly technical talks by experts from Unisys on current technologies</li> <li>• FDP /Workshops</li> <li>• Short term project initiative: Offloading specific modules of live projects to students teams</li> </ul>
3.	SAKHA GLOBAL	<ul style="list-style-type: none"> <li>• Internship, Technical Event Conduction</li> </ul>
4.	SUBEX	<ul style="list-style-type: none"> <li>• IOT and CYBER SECURITY Centre Established in 2016</li> <li>• Setup a HONEYPOT to study techniques of network attacks and create effective deterrents.</li> <li>• Provide building blocks for creating IoT based products and focus on holistic security aspects</li> </ul>
5.	KPIT	<ul style="list-style-type: none"> <li>• Offering KPIT specific courses</li> </ul>
6.	IBM	<ul style="list-style-type: none"> <li>• Focus on Cloud Computing</li> </ul>
7.	COMVIVA	<ul style="list-style-type: none"> <li>• Internship, Technical Event Conduction</li> </ul>
8.	CISCO ACADEMY TRAINING	<ul style="list-style-type: none"> <li>• Training / Technical Talks</li> </ul>
9.	CAPGEMINI	<ul style="list-style-type: none"> <li>• Academia Connect: Monthly technical talks by experts from Unisys on current technologies</li> <li>• FDP /Workshops</li> <li>• Short term project initiative: Offloading specific modules of live projects to students teams</li> </ul>
10.	KNOWLEDGE SOLUTIONS INDIA MICROSOFT -AEP (Authorized Education Partner)	<ul style="list-style-type: none"> <li>• FDP /Workshops</li> <li>• Certification Courses</li> </ul>
11.	HONEYWELL (WOMEN'S EMPOWERMENT) ICT ACADEMY	<ul style="list-style-type: none"> <li>• Certification Courses</li> <li>• FDP /Workshops / Seminars / Technical Talk</li> </ul>
12.	DELL EMC^ (ICT ACADEMY)	<ul style="list-style-type: none"> <li>• FDP /Workshops</li> <li>• Certification Courses</li> </ul>
13.	EGNITE TECHNOLOGIES	<ul style="list-style-type: none"> <li>• Technical Talks</li> <li>• Certification Courses</li> <li>• Short term project initiative: Offloading specific modules of live projects to students teams</li> <li>• Providing Internships to Students</li> </ul>

## Final year student project problem statement review

Select team No:	Please Select Title of Project	Select the choices below which you found more relevant to the Project.
20CSP 3	P20CS3 MENTEE GUIDANCE PORTAL	Idea is Innovative.
20CSP 4	P20CS4 IoT based Smart Mirror using Raspberry Pi	Idea is Patentable., Can result in Research Paper., Can be a Startup idea.
20CSP 9	P20CS9 Social Distancing and Face Mask detection using Deep Learning Models	Idea is Innovative., Can result in Research Paper.
20CSP 10	P20CS10 An Intelligent English Essay Scoring System using NLP and Sentiment Analysis	Idea is Innovative., Can be a Startup idea.
20CSP 36	P20CS36 Crime Analysis and Hotspot Alert	Idea is Innovative.
20CSP 43	P20CS43 Speech Emotion Recognition	Idea is Innovative., Can result in Research Paper., Can be a Startup idea.
20CSP 65	P20CS65 AR Application for and interior designers	Idea is Innovative., Can be a Startup idea.
20CSP 51	P20CS51 Stress Recognition using Face Images and Facial Landmarks	Idea is Innovative., Can result in Research Paper., Can be a Startup idea.
20CSP 22	P20CS22 Multimedia Recommendation System Using Facial Emotions	Idea is Innovative.
20CSP 28	P20CS28 Lip Reading for better communication of hearing impaired using Deep Learning	Idea is Innovative., Idea is Patentable., Can result in Research Paper., Can be a Startup idea
20CSP 42	P20CS42 Smart Home and Health Care System for Physically Disabled People using IoT	Idea is Innovative., Can be a Startup idea.
20CSP 13	P20CS13 Secured storage of Information using Audio Steganography.	Can result in Research Paper.

20CSP 29	P20CS29 Techno-ARM	Can result in Research Paper.
20CSP 25	P20CS25 Solar Powered Electric Car Battery Monitoring System	Can result in Research Paper.
20CSP 27	P20CS27 LiFi based Indoor Positioning System	Can result in Research Paper.
20CSP 50	P20CS50 Natural Gas Pipeline Leakage Detection And Avoidance System	Can result in Research Paper.
20CSP 53	P20CS53 Movie Recommendation System Using Machine Learning	Can result in Research Paper.
20CSP 18	P20CS18 24x7 Smart Iot Based Home Security System	Can result in Research Paper.
20CSP 16	P20CS16 Multi Encryption and Authentication for Dynamic Cloud Storage.	Can result in Research Paper.
20CSP 58	P20CS58 COMBINED DEEP Learning And Level Set For Extraction Endocardium And Epicardium Of Left Ventricle Using Cardiac Mri Data	Can result in Research Paper.
20CSP 2	P20CS2 Data Analysis and Prediction of Heart Diseases and Effect of Coronavirus on Heart patients	Can result in Research Paper.
20CSP 38	P20CS38 Study of Fairness in Machine Learning Algorithms	Idea is Patentable., Can result in Research Paper.
20CSP 61	P20CS61 Monitor Learning for Virtual Classroom	Can result in Research Paper.
20CSP 67	P20CS67 Blockified: A blockchain bases certificate verification system	Idea is Innovative., Idea is Patentable., Can result in Research Paper.
20CSP 1	P20CS1 CrypToken - A Blockchain Based Transaction System	Can result in Research Paper.

20CSP 52	P20CS52 Forest Fire Prediction	Can result in Research Paper.
20CSP 60	P20CS60 Brain Tumor Detection and Classification Using Machine Learning	Can result in Research Paper.
20CSP 44	P20CS44 COVID-19 Healthcare Application	Idea is Innovative., Idea is Patentable., Can result in Research Paper.
20CSP 62	P20CS62 VisionX	Idea is Innovative., Idea is Patentable., Can result in Research Paper., Can be a Startup idea
20CSP 41	P20CS41 Heart attack prediction and alert system based on IOT	Can result in Research Paper.
20CSP 66	P20CS66 Data Analytics on Covid-19 Data	Idea is Innovative., Can result in Research Paper.
20CSP 40	P20CS40 Augmented Reality Driven Home Automation Using AI	Can result in Research Paper.
20CSP 34	P20CS34 Traffic Signs Recognition System	Idea is Innovative., Can result in Research Paper.
20CSP 17	P20CS17 ADAPTIS	Idea is Innovative., Can result in Research Paper.
20CSP 33	P20CS33 Attendance Monitoring System Based on Face Recognition	Idea is Innovative., Can result in Research Paper.
20CSP 31	P20CS31 Smart Healthcare Assistant	Can result in Research Paper.
20CSP 21	P20CS21 Anomaly Detection Using Machine Learning Techniques in Surveillance Videos	Idea is Innovative., Can result in Research Paper.
20CSP 56	P20CS56 AgroCart	Idea is Innovative., Can be a Startup idea.
20CSP 30	P20CS30 Social distance detector using machine learning and image processing	Idea is Innovative.

20CSP 47	P20CS47 Chatbot for people under distress	Idea is Patentable., Can result in Research Paper.
20CSP 32	P20CS32 Analysis of Car Damage for Personal Auto Claim Using CNN	Idea is Innovative., Idea is Patentable., Can be a Startup idea.
20CSP 63	P20CS63 Stroke Prediction Using Artificial Intelligence Approach	Idea is Innovative., Can result in Research Paper.
20CSP 5	P20CS5 Self-Sustained Commute Booking System	Can be a Startup idea.
20CSP 6	P20CS6 Pet Insight System	Idea is Innovative., Can be a Startup idea.
20CSP 48	P20CS48 Review Spam Detection Using Machine Learning	Can result in Research Paper.
20CSP 69	P20CS69 IOT BASED AUTOMATIC MEDICINE REMAINDER	Can result in Research Paper., Can be a Startup idea.
20CSP 46	P20CS46 An IOT Based Framework For Identification Of Covid	Can result in Research Paper.
20CSP 12	P20CS12 Abnormal Human Activity Detection	Idea is Innovative., Can result in Research Paper.
20CSP 19	P20CS19 IOT Based Smart Agriculture: Making The Fields Communicate	Idea is Innovative., Can result in Research Paper., Can be a Startup idea.
20CSP 37	P20CS37 IOT Enabled Health Care System	Can result in Research Paper., Can be a Startup idea.



## Meeting with Parents

### PARENT TEACHER'S MEETING 2020-21

Organized By: **Department of CS&E**

Dated: **15 May 2021**

Time: **4.00 PM-5.15 PM**

Mode: **Online, Microsoft Teams**

Participants: **Parents, Faculty and staff, Dept. of CSE**

Conveners: **Dr. Thippeswamy MN, Prof & Head, Dept. of CSE**

Speaker: **Dr. Thippeswamy MN, Prof & Head, Dept. of CSE**

Coordinators: **Dr. Vijaya Shetty S, Assoc. Prof, Dept. of CSE**

**Dr. Saroja Devi H, Prof., Dept. of CSE**

**Ms. Archana Naik, Assoc. Prof, Dept. of CSE**

**Ms. Sowmya M R, Asst. Prof, Dept. of CSE**

**Ms. Supriya P, Asst. Prof, Dept. of CSE**



### MINUTES OF THE MEETING

Meeting Date: **15/05/2021**

Mode: **Online, Microsoft Teams**

Time: **4.00 PM-5.15 PM**

1. Dr. Vijaya Shetty S welcomed the PTM attendees for the Parent Teacher Meeting for the A.Y. 2020 – 2021

2. The proceedings of the meeting began with HOD's Presentation on Progress of the Department.
3. HOD briefed the parents on the following aspects of the department:
  - Department Profile
  - Vision, Mission, PEOs, POs, PSOs
  - Faculty Details
  - Department Facilities/Laboratories/ Library
  - Opportunities for Students
  - Curriculum Highlights
  - Delivery Methods
  - Industry Interaction
  - Research and Development
  - Student Achievements
  - Workshop/Symposium/Conferences/Training Programs/FDPs Conducted
  - Students Centric Activities
  - Technical Clubs/Student Chapters
  - Result Analysis
  - Placement, Higher Studies, Internships
  - Co-curricular/Extension Activities
  - Best Practices
4. HOD thanked parents for being cooperative and for extending their support to the initiatives and moves taken by the department at this time of the pandemic.
5. HOD explained about the department's initiative to train the current 6<sup>th</sup>-semester students for placement. Senior students, Alumnus and faculty will train the students in these sessions.

**Resolution:** Parents will encourage their wards to get benefited from these sessions.

**Some Feedback and queries of parents:**

1. A few of the Parents appreciated the department activities, the progress and the initiatives taken by the department towards upcoming placements
2. A few of the parents expressed their happiness for professional success of their ward who is alumnus of the department of CSE, NMIT.
3. A few of the parents requested to upload Videos of online classes for Second-semester students.

**Resolution:** Request to be forwarded to Principal.

4. Request from parents for additional measures to reach out the students for better understanding of the online classes, in the form of tests, homework etc.

**Resolution:** Quiz/test/discussions/exercises/problems to solve – to be given at the end of the class hour.

5. Request from parents to vaccinate their wards in hostel.

**Resolution:** Request to be forwarded to Principal.

6. Request to repeat 6<sup>th</sup> semester Android and Bigdata labs in offline mode.

**Resolution:** Will be repeated depending on the demands /circumstances.

7. Request from parents for MSE Dates and mode of conduction.

**Resolution:** Will be dispatched once received from higher authority

8. Query on Internship Plans

**Resolution:** All students Registered with Intern Shala, where students have plenty of opportunities for internship. An alternative suggested is to carryout projects in Centres of Excellence of NMIT.

9. Query on Offer Letters of Placed students.

The Meeting ended with the vote of thanks by Dr. Vijaya Shetty S

### **ATTENDEES OF THE MEETING**

Sl. No.	Full Name	User Action	Timestamp
1.	Supriya P	Joined	5/15/2021, 3:42:17 PM
2.	Dr. Thippeswamy M N, HoD CSE (Guest)	Joined before	5/15/2021, 3:42:17 PM
3.	Dr. Vijaya Shetty S	Joined	5/15/2021, 3:43:40 PM
4.	Shilpa Ankalaki (Guest)	Joined	5/15/2021, 3:44:36 PM
5.	chethan (Guest)	Joined	5/15/2021, 3:51:55 PM
6.	Archana Naik	Joined	5/15/2021, 3:52:02 PM
7.	SHOBHA P	Joined	5/15/2021, 3:52:03 PM
8.	Sneha Kudarihalmath (Guest)	Joined	5/15/2021, 3:53:01 PM
9.	Sandhya Dass (Guest)	Joined	5/15/2021, 3:54:08 PM
10.	Rahul Gorta (Guest)	Joined	5/15/2021, 3:54:37 PM
11.	Bhavana harikant (Guest)	Joined	5/15/2021, 3:54:42 PM
12.	Ankita Choudhary (Guest)	Joined	5/15/2021, 3:55:03 PM
13.	Nalini N (Guest)	Joined	5/15/2021, 3:55:06 PM
14.	S.Dakshinamoorthy - Amrutha ,D (Guest)	Joined	5/15/2021, 3:55:41 PM
15.	siddharth kraleti (Guest)	Joined	5/15/2021, 3:56:04 PM
16.	MAMATHA BAI B G	Joined	5/15/2021, 3:56:24 PM
17.	Jayanth.C_INT18CS063 (Guest)	Joined	5/15/2021, 3:56:33 PM
18.	Pradhan, Nirmalya (Cognizant)	Joined	5/15/2021, 3:56:48 PM
19.	Varsha V (Guest)	Joined	5/15/2021, 3:56:52 PM
20.	syed sameer pasha (Guest)	Joined	5/15/2021, 3:56:53 PM
21.	ayush dewan	Joined	5/15/2021, 3:56:56 PM
22.	Pavitra Harikant (Guest)	Joined	5/15/2021, 3:57:05 PM
23.	H K NAVEEN (Guest)	Joined	5/15/2021, 3:57:43 PM
24.	Karthik Druthi(Guest)	Joined	5/15/2021, 3:57:46 PM
25.	bchandana R (Guest)	Joined	5/15/2021, 3:57:52 PM
26.	Ashwin (Guest)	Joined	5/15/2021, 3:57:56 PM
27.	Jagadevi N kalshetty	Joined	5/15/2021, 3:58:05 PM
28.	Kinshuk Chaturvedi (Guest)	Joined	5/15/2021, 3:58:10 PM
29.	Rupesh Burman (Guest)	Joined	5/15/2021, 3:58:10 PM
30.	Gopal Agrawal	Joined	5/15/2021, 3:58:11 PM
31.	chandrashekarmarkom	Joined	5/15/2021, 3:58:31 PM

32.	ANAND G (Guest)	Joined	5/15/2021, 3:58:37 PM
33.	Gopumadhavan (Guest)	Joined	5/15/2021, 3:58:39 PM
34.	KB (Guest)	Joined	5/15/2021, 3:58:40 PM
35.	Dolly Upmandewan	Joined	5/15/2021, 3:58:40 PM
36.	Sujata Joshi (Guest)	Joined	5/15/2021, 3:58:43 PM
37.	Manju (Guest)	Joined	5/15/2021, 3:58:43 PM
38.	Anil HM (Guest)	Joined	5/15/2021, 3:58:51 PM
39.	Karthik Ps	Joined	5/15/2021, 3:58:52 PM
40.	Charu Upmandewan (Guest)	Joined	5/15/2021, 3:58:59 PM
41.	Asha Nil	Joined	5/15/2021, 3:59:14 PM
42.	KARTHIK M J	Joined	5/15/2021, 3:59:23 PM
43.	Nalin Raj	Joined	5/15/2021, 3:59:49 PM
44.	smita bharath (Guest)	Joined	5/15/2021, 4:00:03 PM
45.	Keerthana Rajagopal (Guest)	Joined	5/15/2021, 4:00:08 PM
46.	Varsha Devaiah (Guest)	Joined	5/15/2021, 4:00:10 PM
47.	Leena Jennifer Edwin	Joined	5/15/2021, 4:00:22 PM
48.	Chinmay Ganapati Hegde	Joined	5/15/2021, 4:00:27 PM
49.	P R Tejas (Guest)	Joined	5/15/2021, 4:00:33 PM
50.	Gnanadeep M V (Guest)	Joined	5/15/2021, 4:00:35 PM
51.	Akanksha MS	Joined	5/15/2021, 4:00:48 PM
52.	Nitin g,r (Guest)	Joined	5/15/2021, 4:00:48 PM
53.	Alisha Ahmed (Guest)	Joined	5/15/2021, 4:00:49 PM
54.	Revathi B	Joined	5/15/2021, 4:00:50 PM
55.	A.S.Prithvi Raj (Guest)	Joined	5/15/2021, 4:00:55 PM
56.	Dr. N.Srinivas (Guest)	Joined	5/15/2021, 4:00:56 PM
57.	Sowmya MR	Joined	5/15/2021, 4:01:00 PM
58.	Pahel Jagtap	Joined	5/15/2021, 4:01:02 PM
59.	Vikitha H (Guest)	Joined	5/15/2021, 4:01:04 PM
60.	Nagaraju (Guest)	Joined	5/15/2021, 4:01:07 PM
61.	Vyshnavi K G (Guest)	Joined	5/15/2021, 4:01:08 PM
62.	subrina pradhan	Joined	5/15/2021, 4:01:15 PM
63.	Akash Patil (Guest)	Joined	5/15/2021, 4:01:17 PM
64.	Dharma Teja (Guest)	Joined	5/15/2021, 4:01:18 PM
65.	chethan (Guest)	Joined	5/15/2021, 4:01:22 PM
66.	Geetika (Guest)	Joined	5/15/2021, 4:01:25 PM
67.	YHK-PU-II-051 - Mithun Raj R	Joined	5/15/2021, 4:01:26 PM
68.	Divya V	Joined	5/15/2021, 4:01:28 PM
69.	Ananth R	Joined	5/15/2021, 4:01:30 PM
70.	Keerti Belmane	Joined	5/15/2021, 4:01:31 PM
71.	Elina Tuladhar - Emerald (Guest)	Joined	5/15/2021, 4:01:32 PM
72.	Kishlay Abhimanyue (Guest)	Joined	5/15/2021, 4:01:35 PM
73.	Harish A N (Guest)	Joined	5/15/2021, 4:01:40 PM
74.	Chaithra DH (Guest)	Joined	5/15/2021, 4:01:43 PM
75.	Piyush Aneja	Joined	5/15/2021, 4:01:44 PM
76.	Chaitra Naveen	Joined	5/15/2021, 4:01:45 PM
77.	Ramyashree (Guest)	Joined	5/15/2021, 4:01:46 PM
78.	Anurag Nepal	Joined	5/15/2021, 4:01:48 PM
79.	Madhumitha R	Joined	5/15/2021, 4:01:48 PM

80.	Salma Itagi (Guest)	Joined	5/15/2021, 4:01:50 PM
81.	Jalpa_CJ_1nt19cs088	Joined	5/15/2021, 4:01:51 PM
82.	Krishnamurthy Naik (Guest)	Joined	5/15/2021, 4:02:01 PM
83.	madhumala BS (Guest)	Joined	5/15/2021, 4:02:08 PM
84.	Dipankar Ghosh (Guest)	Joined	5/15/2021, 4:02:13 PM
85.	1NT18CS174_Tarun_Kumar Arcoyt	Joined	5/15/2021, 4:02:17 PM
86.	Rakshitha.S.L (Guest)	Joined	5/15/2021, 4:02:19 PM
87.	Suresh Choudhary (Guest)	Joined	5/15/2021, 4:02:24 PM
88.	Chaithra DH (Guest)	Joined	5/15/2021, 4:02:28 PM
89.	ANANYA JAYARAMAN	Joined	5/15/2021, 4:02:37 PM
90.	Rakshitha (Guest)	Joined	5/15/2021, 4:02:43 PM
91.	Kartik Singh	Joined	5/15/2021, 4:02:45 PM
92.	Harini Baskar (Guest)	Joined	5/15/2021, 4:02:52 PM
93.	Ramyashree (Guest)	Joined	5/15/2021, 4:02:53 PM
94.	Akshay MS	Joined	5/15/2021, 4:02:55 PM
95.	Harshil Dhingra	Joined	5/15/2021, 4:02:55 PM
96.	krishnara venkates (Guest)	Joined	5/15/2021, 4:03:04 PM
97.	Gunashree B (Guest)	Joined	5/15/2021, 4:03:17 PM
98.	cseoffice@nmit.ac.in (Guest)	Joined	5/15/2021, 4:03:18 PM
99.	Shivanand patil (Guest)	Joined	5/15/2021, 4:03:23 PM
100.	UMA R (Guest)	Joined	5/15/2021, 4:03:27 PM
101.	Guru Sainath (Guest)	Joined	5/15/2021, 4:03:27 PM
102.	Baibhav Dhakal	Joined	5/15/2021, 4:03:28 PM
103.	Harish (Guest)	Joined	5/15/2021, 4:03:31 PM
104.	Ramya Srikanteswara (Guest)	Joined	5/15/2021, 4:03:36 PM
105.	Siddarth (Guest)	Joined	5/15/2021, 4:03:36 PM
106.	K SWAMINATHAN	Joined	5/15/2021, 4:03:44 PM
107.	Nameesha Tantri	Joined	5/15/2021, 4:03:49 PM
108.	Aditya Vijaykumar	Joined	5/15/2021, 4:03:52 PM
109.	Akshat Shah 1NT19CS022	Joined	5/15/2021, 4:03:56 PM
110.	Harshil Reddy	Joined	5/15/2021, 4:03:59 PM
111.	Aishwarya m (Guest)	Joined	5/15/2021, 4:04:01 PM
112.	Nithyashree H V (Guest)	Joined	5/15/2021, 4:04:01 PM
113.	B.Jagdish (Guest)	Joined	5/15/2021, 4:04:06 PM
114.	Aditi Singh	Joined	5/15/2021, 4:04:14 PM
115.	Gunashree B (Guest)	Joined	5/15/2021, 4:04:18 PM
116.	Amrutha D	Joined	5/15/2021, 4:04:19 PM
117.	Jayaraman N.	Joined	5/15/2021, 4:04:25 PM
118.	Rani C V (24568) (Guest)	Joined	5/15/2021, 4:04:27 PM
119.	Rupesh Burman (Guest)	Joined	5/15/2021, 4:04:36 PM
120.	Harshitha P (Guest)	Joined	5/15/2021, 4:04:39 PM
121.	Dr. Vasanthakumar G U	Joined	5/15/2021, 4:04:41 PM
122.	Vivek Gowda V (Guest)	Joined	5/15/2021, 4:04:44 PM
123.	Soumya Almaje (Guest)	Joined	5/15/2021, 4:04:49 PM
124.	Hardeep Singh Arora	Joined	5/15/2021, 4:04:49 PM
125.	BHASKAR SHARMA	Joined	5/15/2021, 4:04:52 PM
126.	Harshitha P	Joined	5/15/2021, 4:04:52 PM
127.	Bhagesh (Guest)	Joined	5/15/2021, 4:04:54 PM

128.	Shailaja Patil (Guest)	Joined	5/15/2021, 4:04:57 PM
129.	Poojitha yadav Ms (Guest)	Joined	5/15/2021, 4:04:57 PM
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133.	Veena (Guest)	Joined	5/15/2021, 4:05:17 PM
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139.	Akash Pathiban	Joined	5/15/2021, 4:05:58 PM
140.	Divya (Guest)	Joined	5/15/2021, 4:06:00 PM
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143.	Jyoti Kumari Sah	Joined	5/15/2021, 4:06:28 PM
144.	Sukanya Bharati (Guest)	Joined	5/15/2021, 4:06:38 PM
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146.	Arkon Pradhan	Joined	5/15/2021, 4:07:09 PM
147.	Shreya Nanduri (Guest)	Joined	5/15/2021, 4:07:12 PM
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154.	Salma Itagi (Guest)	Joined	5/15/2021, 4:07:56 PM
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156.	Bhuvaneshwari P	Joined	5/15/2021, 4:08:08 PM
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172.	Anand Devaganamath	Joined	5/15/2021, 4:11:09 PM
173.	Ajit Hegde	Joined	5/15/2021, 4:11:27 PM
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224.	bebo (Guest)	Joined	5/15/2021, 4:24:16 PM
225.	Mohammed Nayaz A N (Guest)	Joined	5/15/2021, 4:24:36 PM
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260.	Kanaad D S	Joined	5/15/2021, 4:41:16 PM
261.	(Guest)	Joined	5/15/2021, 4:41:20 PM
262.	D S SAI JAHAVI _Int19cs062	Joined	5/15/2021, 4:41:36 PM



## Conduction of Program Exit Survey and Alumni Survey

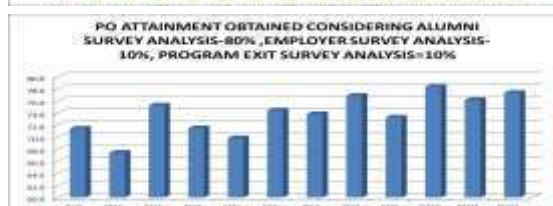
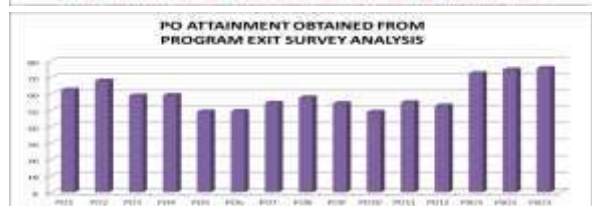
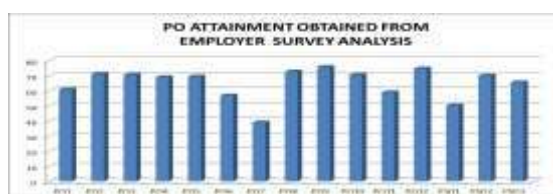
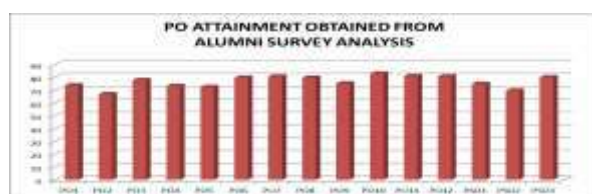
### PO ATTAINMENT (2018-19)

Alumni Survey Analysis, Employer Survey Analysis, Program Exit Survey Analysis)

SLNO	SURVEY	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	ALUMNI	73.83	66.91	77.90	73.33	72.47	79.75	80.62	79.75	75.31	82.96	80.99	80.74	74.96	69.69	80.07
2	EMPLOYER	61.05	71.00	70.53	69.00	69.47	56.84	38.95	72.63	75.79	70.53	58.95	74.74	50.26	70.00	65.51
3	PROGRAM EXIT SURVEY	62.3	67.8	58.7	59	49.1	49.3	54.3	57.6	54.1	48.8	54.7	52.7	72.3	74.62	75.52

Po Attainment (Alumni Survey Analysis, Employer Survey Analysis, Program Exit Survey Analysis) Alumni Survey Analysis-80% , Employer Survey Analysis-10%, Program Exit Survey Analysis=10%)

SLNO	SURVEY	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	ALUMNI	59.1	53.5	62.3	58.7	58	63.8	64.5	63.8	60.2	66.4	64.8	64.6
2	EMPLOYER	6.11	7.1	7.05	6.9	6.95	5.68	3.89	7.26	7.58	7.05	5.89	7.47
3	PROGRAM EXIT SURVEY	6.23	6.78	5.87	5.9	4.91	4.93	5.43	5.76	5.41	4.88	5.47	5.27
FINAL ATTAINMENT		71.4	67.4	75.2	71.5	69.8	74.4	73.8	76.8	73.2	78.3	76.2	77.3
ATTAINMENT TARGET		70	80	80	75	80	70	50	75	65	50	75	75



### PO ATTAINMENT (2019-20)

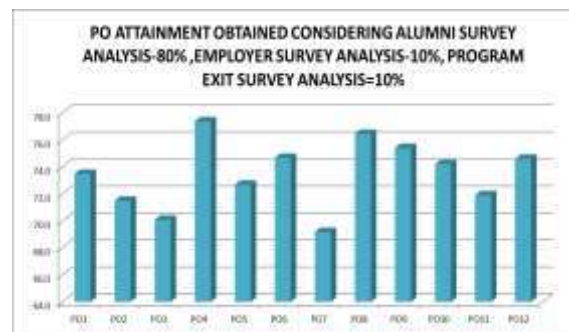
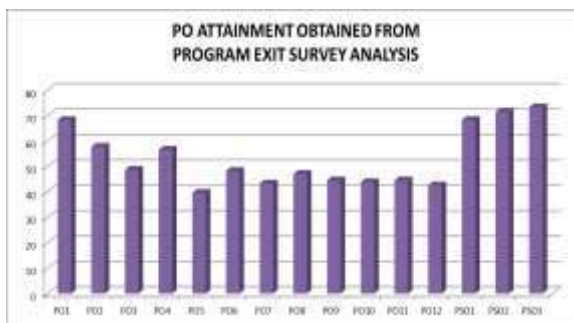
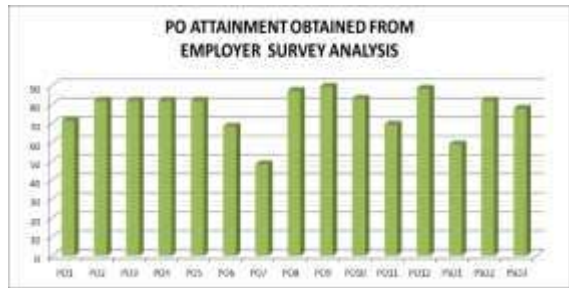
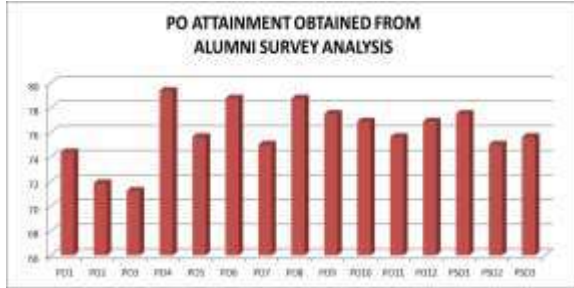
Alumni Survey Analysis, Employer Survey Analysis, Program Exit Survey Analysis)

SLNO	SURVEY	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	ALUMNI	74.375	71.875	71.25	79.375	75.625	78.75	75	78.75	77.5	76.875	75.625	76.875	77.5	75	75.625
2	EMPLOYER	71.5789	82.1053	82.1053	82.1053	82.1053	68.4211	48.4211	87.3684	89.4737	83.1579	69.4737	88.4211	58.9474	82.1053	77.8446
3	PROGRAM EXIT SURVEY	68.3	57.8	48.7	56.62	39.65	48.27	43.3	47.12	44.57	43.84	44.57	42.57	68.3	71.62	73.32

Po Attainment (Alumni Survey Analysis, Employer Survey Analysis, Program Exit Survey Analysis)

**Alumni Survey Analysis-80% , Employer Survey Analysis-10%, Program Exit Survey Analysis=10%)**

SLNO	SURVEY	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	ALUMNI	59.50	57.50	57.00	63.50	60.50	63.00	60.00	63.00	62.00	61.50	60.50	61.50
2	EMPLOYER	7.16	8.21	8.21	8.21	8.21	6.84	4.84	8.74	8.95	8.32	6.95	8.84
3	PROGRAM EXIT SURVEY	6.83	5.78	4.87	5.66	3.97	4.83	4.33	4.71	4.46	4.38	4.46	4.26
<b>FINAL ATTAINMENT</b>		73.49	71.49	70.08	77.37	72.68	74.67	69.17	76.45	75.40	74.20	71.90	74.60
<b>ATTAINMENT TARGET</b>		70.00	80.00	80.00	75.00	80.00	70.00	50.00	75.00	65.00	50.00	75.00	75.00



## Student-centric activities report

Sl. No	Title of Activity	Dates of the Event	Number of Participants	Name of the Speakers (Designation & Organization)
1.	Orientation session for all students and faculties of Institute by Innovation Ambassador(s)	31st July 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:</li> <li>➤ Internal Students</li> <li>➤ External Faculty:</li> </ul>	<ul style="list-style-type: none"> <li>➤ Dr. M.N. Thippeswamy, Prof &amp; Head, CS &amp; E NMIT</li> <li>➤ Dr. Vasanthakumar G. U. Assoc. Prof, CS &amp; E, NMIT</li> </ul>
2.	Guest Lecture Recent Trends and Innovations in Artificial Intelligence	24th July 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:</li> <li>➤ Internal Students</li> <li>➤ External Faculty:</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Ashutosh Gupta (IIT-Delhi), Data Scientist, Nagarro Softwares, Gurgaon</li> </ul>
3.	Building an innovative product fit for market using Agile framework for Lean Enterprise” on.	2nd July 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:</li> <li>➤ Internal Students</li> <li>➤ External Faculty:</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Bharath Swamy, Enterprise Agile Coach, CISCO, Bengaluru</li> </ul>
4.	Prototype Validation – Converting Prototype into a Startup	14th June 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:6</li> <li>➤ Internal Students:53</li> <li>➤ External Faculty:1</li> </ul>	<ul style="list-style-type: none"> <li>➤ Dr. Kumar Padmanabh, EBTIC, A British Telecom and Etisalat Research Lab, Abu Dhabi, U.A.E</li> </ul>
5.	Accelerators / Incubation - Opportunities for Students and Faculties – Early-stage Entrepreneurs	16th June 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:8</li> <li>➤ Internal Students:86</li> <li>➤ External Faculty:10</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Devesh K. Hegde, CEO, Fly Camp, Bengaluru (CSE Alumni, Year 2017)</li> </ul>
6.	Guest Lecture on Innovations, Opportunities, and Challenges in Artificial Intelligence	18th June 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:5</li> <li>➤ Internal Students:55</li> <li>➤ External Faculty:1</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Deepak Garg, Director, Leadingindia.ai, Director, NVIDIA Bennett Research Centre on AI, Chair &amp; Prof., Computer Science Engineering, Bennett University, Greater Noida, UP.</li> </ul>
7.	Skills Learning & Development Sessions	5-2021 to 13-5-2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:10</li> <li>➤ Internal Students:160</li> </ul>	<ul style="list-style-type: none"> <li>➤ Dr. M.N. Thippeswamy, (Prof. and Head, CS &amp; E)</li> <li>➤ Dr. Shiva Darshan S.L.</li> <li>➤ Dr. Mohan B.A.</li> <li>➤ Ms. Deepthi Shetty</li> <li>➤ Mr. Anil Kumar</li> <li>➤ Ms. Mamatha Bai B.G.</li> <li>➤ Ms. Shruti B.V.</li> <li>➤ Ms.Sowmya M.R.</li> <li>➤ Ms. Mahadevi S.</li> <li>➤ Ms. Bhuvaneshwari P. (Faculty, CS &amp; E)</li> </ul>
8.	Improving Personality Development skills	7th April 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:3</li> <li>➤ Internal Students:65</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Avinash Rath, 8th sem, CS&amp;E, NMIT.</li> <li>➤</li> </ul>

9.	Mentorship Session on Innovators(or) Student Entrepreneurs through experts and (or) Innovation Ambassadors / Innovation Agent	30 <sup>th</sup> March 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:9</li> <li>➤ Internal Students:50</li> <li>➤ External Faculty:4</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Raghu Gollamudi, Co-founder &amp; CEO, Integris Software, Washington, USA</li> </ul>
10.	Workshop on Business Model Canvas (BMC)	27 <sup>th</sup> March 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:8</li> <li>➤ Internal Students:56</li> <li>➤ External Faculty:1</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Arunjit Chowdhuray, CEO, Enterprise Building Training Solution</li> </ul>
11.	A workshop on Intellectual Property Rights and IP Management for Startups	27 <sup>th</sup> February 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:6</li> <li>➤ Internal Students:32</li> <li>➤ External Faculty:7</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Afsar S. Patent &amp; Trademark Attorney, Managing Partner, Afsar &amp; Associates</li> </ul>
12.	Webinar on How to plan for Start-up and Legal & Ethical Steps	9 <sup>th</sup> February 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:8</li> <li>➤ Internal Students:151</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Anand Krishnan, COO, Urban Oxygen, Bangalore</li> <li>➤ Mr. Manoj Kumar K. C. CEO, Pinnacle</li> </ul>
13.	Recent Advances in Computer Networks	16 <sup>th</sup> January 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:6</li> <li>➤ Internal Students:218</li> <li>➤ External Faculty:3</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Khader Nawaz Khan, Quality Engineering Lead, FICO, Bangalore</li> </ul>
14.	Artificial Intelligence and Machine Learning	28 <sup>th</sup> December 2020 to 2nd January 2021	<ul style="list-style-type: none"> <li>➤ Internal Faculty:38</li> <li>➤ External Faculty:3</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Gurvansh Singh, Senior Subject Matter Expert, KSI.</li> </ul>
15.	National Innovation and Start-up Policy	31 <sup>st</sup> December 2020	<ul style="list-style-type: none"> <li>➤ Internal Faculty:11</li> <li>➤ Internal Students:65</li> <li>➤ External Faculty:17</li> </ul>	<ul style="list-style-type: none"> <li>➤ Dr. Thippeswamy M.N. Prof &amp; Head, Dept. of CS &amp; E, NMIT</li> <li>➤ Dr. J Sudheer Reddy, Prof &amp; Head, Dept. of ME, NMIT</li> <li>➤ Mr. Madan J. Manager, Centre of Innovation, Incubation and Entrepreneurship, NMIT.</li> </ul>
16.	Design Thinking, Critical Thinking and Innovation Design"	28 <sup>th</sup> December 2020.	<ul style="list-style-type: none"> <li>➤ Internal Faculty:7</li> <li>➤ Internal Students:26</li> <li>➤ External Faculty:2</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mohan Kumar C. S., Project Manager, TietoEVERY, Bengaluru.</li> </ul>
17.	Cutting Edge Technology Trends in Agile and DevOps for Problem Solving and Ideation'	7 <sup>th</sup> December to 11 <sup>th</sup> December 2020	<ul style="list-style-type: none"> <li>➤ Internal Faculty:7</li> <li>➤ Internal Students:200</li> <li>➤ External Faculty:4</li> </ul>	<ul style="list-style-type: none"> <li>➤ Dr. Thippeswamy M.N., Prof &amp; Head, CSE, NMIT</li> <li>➤ Mr. Nivarthi Jayaram, Vice-President, and Head of Transformation Societe Generale Global Solution Centre Bengaluru</li> <li>➤ Mr. Praveen Kumar Donthi Enterprise Transformation Leader, Change Enabler and Agile Coach</li> <li>➤ Mr. Mahesh Basapur, Principal Consultant Yayati Consulting LLP</li> <li>➤ Mr. Milind Kanbur, Release Train Engineer &amp; Agile Coach, Societe Generale Global Solution Centre, Bengaluru.</li> </ul>

18.	Identifying Intellectual Property component at the early stage of Innovation	11 <sup>th</sup> December 2020	<ul style="list-style-type: none"> <li>➤ Internal Faculty:38</li> <li>➤ Internal Students:150</li> <li>➤ External Faculty:3</li> </ul>	<ul style="list-style-type: none"> <li>➤ Dr. T.V. Ravi, Senior IP Counsel, Philips Intellectual Property and Standards, Philips India Ltd, Bangalore</li> </ul>
19.	Functionalities of a Next-Generation Firewall' & 'Understanding Software Defined Networking, Network Function Virtualization' and 'Network Security'	4 <sup>th</sup> , 8 <sup>th</sup> , and 21 <sup>st</sup> December 2020	<ul style="list-style-type: none"> <li>➤ Internal Faculty:30</li> <li>➤ Internal Students:100</li> <li>➤ External Faculty:3</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Naveen K. K., Mr. C Dhanumjayarao, IBM India Pvt. Ltd.</li> <li>➤ Ms. Bala Vilasini, IBM India Pvt. Ltd.</li> <li>➤ Mr. Karthik P. V, IBM India Pvt. Ltd.</li> </ul>
20.	Workshop on Entrepreneurship	7 <sup>th</sup> and 9 <sup>th</sup> November 2020	<ul style="list-style-type: none"> <li>➤ Internal Faculty:6</li> <li>➤ Internal Students:67</li> <li>➤ External Faculty:3</li> </ul>	<ul style="list-style-type: none"> <li>➤ Dr. Harish G. Ugraiah, Principal Consultant, Vision Reach, Perth, Australia</li> <li>➤ Dr. D. K. Subramanian Distinguished Fellow Indian Institute of Science Bangalore, Institute for Development and Research in Banking Technology, Bangalore</li> <li>➤ Dr. Sudeendra Koushik, Chief Innovator &amp; Cofounder, PRASU, Vice-President, IEEE TEMS, Exec Council at Women In Big Data, TEDX.</li> </ul>
21.	Online webinar on "Skill Development on Network Security"	30 <sup>th</sup> October 2020 to 6 <sup>th</sup> November 2020	<ul style="list-style-type: none"> <li>➤ Internal Faculty:12</li> <li>➤ Internal Students:66</li> <li>➤ External Faculty:3</li> </ul>	<ul style="list-style-type: none"> <li>➤ Dr. Shashidhara, Assistant Professor, Bennett University,</li> <li>➤ Dipak Kumar Bhagat, SUBEX Ltd</li> <li>➤ Ms. Kavya, Developer, Freedom Mortgage, USA(CSE Alumni 2017)</li> </ul>
22.	Skill Development webinar on KUBERNETES	5 <sup>th</sup> October 2020	<ul style="list-style-type: none"> <li>➤ Internal Faculty:7</li> <li>➤ Internal Students:68</li> <li>➤ External Faculty:2</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Visagan Santhanam, Lead Engineer, UNISYS India</li> <li>➤ Mr. Shivdeep Nancherla, Technology Leader, Digital Platforms and Experiences, UNISYS</li> </ul>
23.	Five-day Faculty Development Program on "Recent Innovations in Big Data Analytics"	24 <sup>th</sup> to 28 <sup>th</sup> August 2020	<ul style="list-style-type: none"> <li>➤ Internal Faculty:22</li> <li>➤ Internal Students:35</li> <li>➤ External Faculty:25</li> </ul>	<ul style="list-style-type: none"> <li>➤ Dr. Thippeswamy M.N., (Professor &amp; HoD, Dept of CS&amp;E, NMIT)</li> <li>➤ Dr. Vijaya Shetty, Dr. Sarojadevi H, Mrs. Archana Naik, Mrs. Ushashree P. (Faculty, Dept of CS&amp;E, NMIT)</li> <li>➤ Ruma Mukherjee (Chief Architect, Data Analytics, Unisys)</li> <li>➤ Mr. Pradeep Muninarasimhappa Simha (Service Consultant - Information Security at McAfee, USA),</li> </ul>

				<ul style="list-style-type: none"> <li>➤ Mr. Stephen Deva Paul (Founder, Ignite X Labs, Bangalore)</li> <li>➤ Rachana Vishwanathula, (Developer Advocate - AI/ML, Developer Advocate System - DTL, IBM, Bangalore)</li> <li>➤ Mr. Sumit Kumar (Program Director, IBM Data and AI, IBM Cloud Pak for Data, IBM Bangalore).</li> </ul>
24.	Short Term Training Program on "Resource Innovations and Skills Development"	22 <sup>nd</sup> to 27 <sup>th</sup> of August 2020	<ul style="list-style-type: none"> <li>➤ Internal Faculty:8</li> <li>➤ Internal Students:193</li> <li>➤ External Faculty:8</li> </ul>	<ul style="list-style-type: none"> <li>➤ Dr. M. N. Thippeswamy (Prof and Head, CS &amp; E, NMIT)</li> <li>➤ Dr. Venkatesh K. (Prof, CS &amp; E, NMIT, Dr. Mohan B. A. (Assoc. Prof. CS &amp; E, NMIT)</li> <li>➤ Dr. Bhadrinath G Srinivas (Senior Research Scientist - III Amazon (India) Pvt. Ltd, Bangalore)</li> <li>➤ Dr. Manjanna B (Bits Pilani, Hyderabad)</li> <li>➤ Mr. Stephen Deva Paul, (Founder, Ignite X Labs)</li> <li>➤ Dr. Pratap Uppara (Solutions Architect, HP Inc., Bengaluru)</li> <li>➤ Mr. Venkatesh G. (Senior Associate, State Street Corporation, Bangalore)</li> <li>➤ Dr. Vasanthakumar G. U.( Asst. Prof. CS &amp; E, NMIT)</li> <li>➤ Dr. Shiva Darshan S. L. (Asst. Prof. CS &amp; E, NMIT)</li> <li>➤ Mr. Vinay T. R. (Asst. Prof. CS &amp; E, NMIT).</li> </ul>
25.	Skill Enhancement Program	20 <sup>th</sup> - 22 <sup>nd</sup> and 24 <sup>th</sup> - 26 <sup>th</sup> August 2020	<ul style="list-style-type: none"> <li>➤ Internal Faculty:3</li> <li>➤ Internal Students:100</li> <li>➤ External Faculty:2</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Stephen Dev Paul Founder, Ignite X Labs</li> <li>➤ Mr. Sethunathan Former VP, CelStream</li> <li>➤ Mrs. Ramyashree B. R. Asst. Prof, CS &amp; E, NMIT</li> </ul>
26.	Webinar on "Web Application Automation using Selenium Web driver"	8 <sup>th</sup> August 2020	<ul style="list-style-type: none"> <li>➤ Internal Faculty:17</li> <li>➤ Internal Students:110</li> <li>➤ External Faculty:1</li> </ul>	<ul style="list-style-type: none"> <li>➤ Mr. Vinod Kumar D. P. (Manager-SDET, Selenium, Bangalore)</li> </ul>

REMEDIAL CLASSES – 2020-21							
OOP	DS	CO&A	DS LAB	M3	DMS	DADC	KANNADA

1	Leander Mani(M)	Dheemanth(S)	Leander Mani (M)	Leander Mani(M)	Leander Mani(S)	Leander Mani(M)	Arjun R(S)	Meeraj K
2	Dheemanth (M)	Supreetha (S)	Dheemanth (M)	Supreetha (M)	Dheemanth(S)	Supreetha (S)	Rohan Thomas (S)	
3	Rashish Neupane(S)	Nabirasool (S)	Rahul Kumar(M)	Nandhini HV (M)	Megha Sharma (S)	Megha Sharma (M)		
4	Megha Sharma (M)	Neha K (S)	Preethi(M)	Megha Sharma(S)	Nabirasool (S)			
5	Madhan(S)	Gagan (S)	Pahel Jagtap (M)		Neha K(S)			
6	Nabirasool (S)	Megha Sharma (M)			Gagan(S)			
7	Neha K(S)	Rohan Thomas (S)			Rohan Thomas(S)			
8	Pahel Jagtap (M)							
SUPPLEMENTARY=(S)								
MAKEUP=(M)								

The students who have less than 12 marks in MSE are hereby informed to attend the remedial classes. Respective subject teacher will decide on the timing for the classes to be held every week

SI No	Subject Name	Semester
1	<b>DMS</b>	3
2	<b>DADC</b>	3
3	<b>CN</b>	5

#### DADC Students Remedial attendance List

SI No	USN	Student Name	3/10/19	3/10/19	10/10/19	10/10/19	17/10/19	24/10/19	1/7/19	7/11/19	17/11/19	1/11/19	24/11/19	24/11/19	24/11/19
1.	1NT15CS202	Vinay Dinesh	P	P	P	P	P	P	P	P	P	P	P	A	A
2.	1NT18CS428	Varun K S	P	P	P	P	P	P	P	P	P	P	P	P	P
3.	1NT18CS429	Vijayumar Hiremath	P	P	P	A	A	A	P	P	P	P	P	P	P
4.	1NT18CS430	Vinay Kumar M	P	A	P	A	P	A	P	P	P	P	P	P	P

5.	1NT1 8CS4 31	Vinut h Kuma r A M	P	P	P	P	P	P	P	P	P	P	P	P	P
6.	1NT1 7CS2 07	Vineet Praka sh	P	A	P	A	A	P	P	P	P	P	P	P	P
7.	1NT1 8CS4 27	Tanuj a Neela kanth a Naik	P	P	P	P	P	P	P	P	P	P	P	P	P
8.	1NT1 6CS1 51	Ganes h B S	P	P	P	P	P	P	P	P	P	P	P	P	P
9.	1NT1 8CS4 28	Varun K S	P	A	P	P	P	P	P	P	P	A	P	P	P
10.	1NT1 8CS4 29	Vijayk umar Hirem ath	P	P	P	P	P	A	P	P	P	P	P	P	P
11.	1NT1 8CS4 30	Vinay Kuma r M	P	P	P	P	P	A	P	P	P	P	A	A	A
12.	1NT1 7CS0 77	K P Gaura v	P	P	P	P	A	P	P	P	P	P	P	P	P
13.	1NT1 7CS0 98	M Akhil Raju	P	P	P	P	P	P	P	P	P	P	P	P	P
14.	1NT1 7CS1 25	Praka sh Kuma r Singh	P	P	P	P	P	P	P	P	P	P	P	P	P

#### DMS Students Remedial attendance List

S I N o	USN	Stud ent Nam e	7/1 0/1 9	7/1 0/1 9	13/ 10/ 19	13/ 10/ 19	21/ 10/ 19	21/ 10/ 19	21/ 10/ 19	13/ 11/ 19	173/ 11/1 9	13/ 11/ 19	24/ 11/ 19	24/ 11/ 19	24/ 11/ 19
1.	1NT1 5CS2 02	Vinay Dines h	P	P	P	P	A	A	P	P	P	P	P	A	A



2.	1NT1 6CS0 93	Sai Kiran S	P	P	P	P	P	P	P	P	P	P	P	P	P
3.	1NT1 6CS1 08	Shub ham Shar ma	P	P	P	A	A	A	P	P	P	P	P	P	P
4.	1NT1 6CS2 12	Susha nt Upret i	P	A	P	A	P	A	P	P	P	P	P	P	P
5.	1NT1 7CS0 64	Haris h Kuma r G A	P	P	P	P	P	P	P	P	P	P	P	P	P
6.	1NT1 7CS0 69	Jasmi ne Yada v	P	A	P	A	A	P	P	P	P	P	P	P	P
7.	1NT1 7CS0 71	Jayan th G	P	P	P	P	P	P	P	P	P	P	P	P	P
8.	1NT1 7CS0 72	Jeeva n J Achar ya	P	P	P	P	P	P	P	P	P	P	P	P	P
9.	1NT1 7CS0 73	Jeeva n Prasa d Gupt a	P	A	P	P	P	P	P	P	P	A	P	P	P
10	1NT1 7CS0 74	K A Sai Nave en	P	P	P	P	P	A	P	P	P	P	P	P	P
11	1NT1 7CS0 75	K Bhag yashr ee	P	P	P	P	P	A	P	P	P	P	A	A	A
12	1NT1 7CS0 77	K P Gaur av	P	P	P	P	A	P	P	P	P	P	P	P	P

13	1NT1 7CS0 80	K Soum ith	P	P	P	P	P	P	P	P	P	P	P	P	P
14	1NT1 7CS0 81	Karan S	P	P	P	P	P	P	P	P	P	P	P	P	P

**Computer Networks Students Remedial attendance List**

S l N o	USN	Stude nt Nam e	7/1 0/1 9	7/1 0/1 9	13/ 10/ 19	13/ 10/ 19	21/ 10/ 19	21/ 10/ 19	21/ 10/ 19	13/ 11/ 19	173/ 11/1 9	13/ 11/ 19	24/ 11/ 19	24/ 11/ 19	24/ 11/ 19
	1NT1 6CS0 25	D V Divya nshu	P	P	P	P	P	P	P	P	P	P	P	A	A
	1NT1 6CS0 26	Deba shish Dutta	P	P	P	P	P	P	P	P	P	P	P	P	P
	1NT1 6CS0 28	Deeks hitha R	P	P	P	P	P	P	P	P	P	P	P	P	P
	1NT1 6CS0 29	Desai Rana Prata psinh	P	A	P	P	P	A	P	P	P	P	P	P	P
	1NT1 6CS0 35	Hema nt Rakes h	P	P	P	P	P	P	P	P	P	P	P	P	P
	1NT1 6CS0 36	Hima ni Prabh u	P	P	P	P	P	P	P	P	P	P	P	P	P
	1NT1 6CS0 39	Jayan th C	P	P	P	P	A	A	P	P	P	P	P	P	P
	1NT1 6CS0 41	K S Vishal	P	P	P	P	P	P	P	P	P	P	P	P	P
	1NT1 6CS0 53	Masa ni	P	A	A	A	A	A	P	P	P	A	P	P	P

		Yasw anth													
	1NT1 6CS0 54	Megh a Raj D	P	P	P	P	P	A	P	P	P	P	P	P	P
	1NT1 6CS0 58	N K Devia h	P	P	P	P	P	A	P	P	P	P	A	A	A
	1NT1 6CS0 60	Naga bhus han S	P	P	P	P	A	P	P	P	P	P	P	P	P
	1NT1 6CS0 62	Nagar athna B S	P	P	P	P	P	P	P	P	P	P	P	P	P

The students who have less than 12 marks in MSE are hereby informed to attend the remedial classes. Respective subject teacher will decide on the timing for the classes to be held every week

SI No	Subject Name	Semester
1	<b>Data Structure</b>	4
2	<b>Maths4</b>	4

#### Data structure Students Remedial attendance List

S I N o	USN	Studen t Name	6/5 /20	6/5 /20	6/5 /20	18/ 5/2 0	18/ 5/2 0	20/ 5/2 0	20/ 5/2 0	23/ 5/2 0	23/ 5/2 0	23/ 5/2 0	24/1 1/19	24/1 1/19	24/1 1/19
	1NT17 CS009	Adarsh Pratap Singh	P	P	P	A	A	P	P	P	P	P	P	A	A
	1NT17 CS010	Aditya B J	A	A	A	P	P	P	P	P	P	P	P	P	P
	1NT17 CS011	Aditya Kumar Seth	P	P	P	P	P	P	P	P	P	P	P	P	P
	1NT17 CS021	Amulya V Pujar	P	A	P	P	P	A	P	P	P	P	P	P	P
	1NT17 CS024	Ankith a S	P	P	A	A	P	P	P	P	P	P	P	P	P

1NT17 CS025	Anuj Bista	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1NT17 CS035	Ayush Saklani	A	A	P	P	A	A	P	P	P	P	P	P	P	P
1NT17 CS036	B V G S Sai	P	P	P	P	P	P	P	P	P	P	P	P	P	P
1NT17 CS037	Balimid i Guru Sandee p	P	A	A	A	A	A	P	P	P	A	P	P	P	P
1NT17 CS038	Bandi Mokshi th Das	P	P	P	P	P	A	P	P	P	P	P	P	P	P
1NT17 CS040	Bharat h Raj Nayaka A M	P	P	P	P	P	A	P	P	P	P	A	A	A	A
1NT17 CS042	Bhavy Tolani	P	P	P	P	A	P	P	P	P	P	P	P	P	P
1NT15 CS202	Vinay Dinesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P

### Maths4 Students Remedial attendance List

S I N o	USN	Stu den t Na me	7/ 5/ 20	7/ 5/ 20	7/ 5/ 20	19/ 5/2 0	19/ 5/2 0	19/ 5/2 0	20/ 5/2 0	24/ 5/2 0	24/ 5/2 0	24/ 5/2 0	24/ 11/ 19	24/ 11/ 19	24/ 11/ 19
	1NT1 7CS0 09	Ada rsh Prat ap Sing h	A	A	P	P	P	P	PA	P	P	P	P	A	A
	1NT1 7CS0 10	Adit ya B J	P	A	A	A	P	P	P	P	P	P	P	P	P
	1NT1 7CS0 11	Adit ya Ku mar	P	P	P	P	P	P	P	P	P	P	P	P	P

		Set h													
	1NT1 7CS0 21	Am ulya V Puja r	P	A	A	P	P	A	P	P	P	P	P	P	P
	1NT1 7CS0 24	Anki tha S	P	P	P	P	P	P	P	P	P	P	P	P	P
	1NT1 7CS0 25	Anu j Bist a	P	P	A	P	P	P	P	P	P	P	P	P	P
	1NT1 7CS0 35	Ayu sh Sakl ani	P	P	P	P	A	A	P	P	P	P	P	P	P
	1NT1 7CS0 36	BV GS Sai	P	P	P	P	P	P	P	P	P	P	P	P	P
	1NT1 7CS0 37	Bali midi Gur u San dee p	P	A	A	A	A	A	P	P	P	A	P	P	P
	1NT1 7CS0 38	Ban di Mo kshi th Das	P	P	P	P	P	A	P	P	P	P	P	P	P
	1NT1 7CS0 40	Bha rath Raj Nay aka AM	P	A	A	A	A	A	P	P	P	P	A	A	A
	1NT1 7CS0 42	Bha vy Tola ni	P	P	P	P	A	P	P	P	P	P	P	P	P

1NT1 5CS2 02	Vina y Din esh	P	P	P	P	P	P	P	P	P	P	P	P	P	P
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### Preparation of the Course Handout format and review.

The course will be delivered through lectures, classroom interaction, numerical exercises, and self-study components.

All the Theory and Laboratory Syllabus will be reviewed by the subject mentor and HoD before submitting to coordinators.

## Theory - Format

<b>Department: Computer Science &amp; Engineering</b>	<b>Course Type: Programme Elective</b>
<b>Course Title:</b>	<b>Course Code:</b>
<b>L-T-P:</b>	<b>Credits:</b>
<b>Total Contact Hours:</b>	<b>Duration of SEE:</b>
<b>SEE Marks:</b>	<b>CIE Marks:</b>

### COURSE DESCRIPTION

### PREREQUISITES

### COURSE OBJECTIVES

### COURSE CONTENTS

### UNIT – I

### UNIT – II

### UNIT – III

### UNIT – IV

### UNIT – V

### TEXTBOOKS

**DELIVERY METHODS**

**ASSESSMENT METHODS**

Parameters	Marks

**COURSE OUTCOMES**

COs	Description	Bloom's Level
CO1		
CO2		
CO3		
CO4		
CO5		

Mapping of Course outcomes (COs) to Program outcomes (POs*)& PSO **															
POs COs	Course Outcomes mapping to Program Outcome												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2	PSO3
CO1															
CO2															
CO3															
CO4															
CO5															

**3: Strong, 2: Medium, 1: Weak \*\* H: Highly related S: Supportive**

Sample:

## Department of Computer Science and Engineering

<i>Department: Computer Science &amp; Engineering</i>	<i>Course Type: Programme Elective</i>
<i>Course Title: Advanced Algorithms</i>	<i>Course Code: 18CSE642</i>
<i>L-T-P: 3-0-0</i>	<i>Credits: 03</i>
<i>Total Contact Hours: 39 Hours</i>	<i>Duration of SEE: 3 Hours</i>
<i>SEE Marks: 50</i>	<i>CIE Marks: 50</i>

### COURSE DESCRIPTION

This course is for any student who is interested in pursuing a career that would require algorithm design and implementation. Arguably, algorithm design and implementation is the most fundamental and exciting area of computer science. Even though algorithms for solving most of the problems already exist, it is necessary to continuously evolve better ways of implementing them. New domains are being explored by current researchers which could require the development of totally new algorithms. All these activities require a sound knowledge of Algorithm Design. Sound knowledge implies the ability to prove the correctness of an algorithm and to estimate the runtime of the algorithm. This course will cover both aspects of algorithm analysis in addition to introducing some advanced data structures and algorithms

### PREREQUISITES

- Students should have gone through the basic courses on data structures and algorithms.
- Students should have knowledge of C or C++ language

### COURSE OBJECTIVES

To enable the students to

- Analyze the asymptotic performance of algorithms.
- Write rigorous correctness proofs for algorithms.
- Demonstrate familiarity with major algorithms and data structures.
- Apply important algorithmic design paradigms and methods of analysis.
- Synthesize efficient algorithms in common engineering design situations

### COURSE CONTENTS

#### UNIT – I Basic Algorithms and DS Review

**08 Hours**

Analyzing Algorithm Complexity: Growth of functions. Asymptotic Upper bound, lower bound, tight bound. Solving Recurrences: Substitution, Recurrence tree and Masters theorem. Review of Tree traversal and Search algorithms. Proving correctness of traversal & search, Review of predecessor & successor algorithms. Algorithm complexity analysis. Hashing review. Hash tables, analysis of hashing with chaining. Hash functions. Blooms filter.

#### UNIT – II Advanced Data Structures

**08 Hours**

Amortized Analysis: Aggregate Analysis, The Potential Method. Illustrate using Stack operations. Dynamic Tables: Dynamic Tables, Algorithm design using amortization concepts. Data Structures for Disjoint Sets: Disjoint-set operations, linked-list representation and analysis, Disjoint-set forests (without analysis). Operation on RB trees (Analysis, time permitting). Augmenting data structures: Basics, augmenting AVL trees. Introduction to Tries, Suffix trees.

#### UNIT – III Graph Algorithms (Network Flows)

**08 Hours**

Review of BFS and DFS in Graphs. Flow networks and max flows. Ford Fulkerson, and Edmonds-Karp Algorithm (overview only). With Analysis of Correctness and Complexity. Bipartite Graph Matching: reduction to a maximum flow problem. Correctness proof (Time permitting).



**UNIT – IV Approximation Algorithms****08 Hours**

P/NP: P and NP classes. Polynomial-time verification. Reducibility. Some example reductions. Approximate algorithms: vertex-cover, TSP, set covering (overview only). With Complexity Analysis.

**UNIT – V Special Topics****08 Hours**

Longest Common substring, longest common subsequences, Multithreaded Algorithms - Basics: Computations DAG,,s, performance measures, scheduling, analysis. matrix multiplication, merge sort. Stencil based computations

**TEXTBOOKS**

1. Introduction to Algorithms, Thomas H., Cormen, Charles E. Leiserson, Ronal L. Rivest, Clifford Stein, 3 nd Edition, PHI, 2010.
2. Algorithm Design, John Kleinberg and Eva Tardos, Pearson Publication 2006

**DELIVERY METHODS**

The course will be delivered through lectures, classroom interaction, numerical exercises and self-study components.

**ASSESSMENT METHODS**

Parameters	Marks
Midterm Test (Avg of 2 Tests)	30
Programming Assignment	20
<b>Total</b>	<b>50</b>
Final Exam will be conducted for 100 marks (SEE)	

**COURSE OUTCOMES**

COs	Description	Bloom's Level
CO1	Analyze algorithm complexity using recurrence relations, asymptotic analysis, aggregate analysis, worst-case analysis.	L3
CO2	Prove correctness of algorithms.	L3
CO3	Understand the concepts of advanced data structures such as dynamic tables and AVL trees.	L2
CO4	Derive approximation algorithms for hard problems (NP-complete problems).	L3
CO5	Design algorithm for multi-threaded applications.	L4

Mapping of Course outcomes (COs) to Program outcomes (POs*)& PSO **															
Course Outcomes mapping to Program Outcome													PSOs		
POs COs	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2	PSO3
<b>CO1</b>	3												1		
<b>CO2</b>		3	3	3										2	
<b>CO3</b>		3	3	3										2	
<b>CO4</b>		3	3	3										2	
<b>CO5</b>		3	3	3										2	

**3: Strong, 2: Medium, 1: Weak \*\* H: Highly related S: Supportive**

## Laboratory - Format

<b>Department: Computer Science &amp; Engineering</b>	<b>Course Type: Programme Elective</b>
<b>Course Title:</b>	<b>Course Code:</b>
<b>L-T-P:</b>	<b>Credits:</b>
<b>Total Contact Hours:</b>	<b>Duration of SEE:</b>
<b>SEE Marks:</b>	<b>CIE Marks:</b>

### COURSE DESCRIPTION

### PREREQUISITES

### COURSE OBJECTIVES

### COURSE CONTENTS

Sl No	List of Programs (15)	CO Mapping
1 a		
b		

### ASSESSMENT METHOD

Parameter	Marks
Test (Average of Two tests)	15
Laboratory Record writing	10
Surprise Test	10
Continuous Evaluation	10
Viva	5
<b>Total</b>	<b>50</b>
Final SEE will be conducted for 100 marks	

### COURSE OUTCOMES

CO	Description	Bloom's Level
CO1		
CO2		
CO3		
CO4		
CO5		

### TEXTBOOKS

Mapping of Course outcomes (COs) to Program outcomes (POs)															
	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2	PSO3
CO1															
CO2															
CO3															
CO4															

CO5	3	2	3					2	2			3		2
-----	---	---	---	--	--	--	--	---	---	--	--	---	--	---

**Laboratory – Manuals**

**Sample**

[HPC Lab Manual](#)

[Mobile Application Lab Manual](#)

**Theory**

**Sample**

[Information Security 18CSE532 \(Unit 4.\) - Honeypots, software etc](#)

## Department Wise Review of Research Status

S.No	Date	Name of the Research scholar	USN	Topic	Review
1	12/08/2021	Mr.Satish EG	1NT16PEJ07	Design of reconfigurable architecture for network on chip	Open Seminar-II
2	20/09/2021	Ms. B V Shruthi	1NT12PEN07	QoS Architecture and scheduling strategies in wireless sensor network	Pre-Submission colloquium
3	29/11/2021	Mr.Satish EG	1NT16PEJ07	Design of reconfigurable architecture for network on chip	Open Seminar-II
4	06/12/2021	Ms. Shilpa Ankalaki	1NT18PCS01	Exploring machine learning and deep learning approaches for sensor Based Human Activity Recognition	OpenSeminar-I
5	21/01/2022	Ms. Meenakshi	1NT17PEA05	Developing a Novel secure model for Big Data Analytics in a cloud environment	Comprehensive Viva
6	26/01/2022	Ms. Jagadevi N Kalshetty	CPS10390	To be framed	Literature Review
7	26/01/2022	Ms. Sharmila Begum	CPS10391	To be framed	Literature Review
	12/02/2022	Ms. Shilpa Ankalaki	1NT18PCS01	Exploring machine learning and deep learning approaches for sensor Based Human Activity Recognition	Open Seminar-II
8	26/02/2022	Mr. Raghavendra Patil G E	1NT15EJ02	An Energy efficient distributed co-operative routing protocol for wireless sensor networks.	Final PhD Viva-Voice
9	05/03/2022	Ms. Nagamani H S	WOF-85	Plant health detection using computer vision Techniques.	Pre-Submission colloquium

### Department – Colloquium Details

Name of The Dept	Date	Time	Topic	Name Of Speaker	Designation	No Of Participants Same Dept	Other Dept	Students
CSE	03-01-2016	2:30-3:30	Congestion Control Techniques for VANETS	Mr. Nagaraj S R	Asst. Professor	16	0	0
CSE	26-03-2016	11:00-12:00	Energy-efficient hybrid protocols for routing in WSN	Mr. Mohan B A	Asst. Professor	15	0	20
CSE	30-04-2016	11:00-12:00	Designing reliable systems	Dr. Venkatesh K	Professor	10	0	0

CSE	09-02-2016	3:00-3:45	Future of artificial intelligence and its applications	Dr. Kavitha Sooda	Assoc. Professor	21	0	0
CSE	10-05-2016	3:00-4:00	A step towards data analytics	Ms Archana Naik	Assoc. Professor	18	0	9
CSE	26-10-2016	2:30-3:30	Introduction to data mining and its applications	Ms. Sujatha Joshi	Assoc. Professor	30	0	0
CSE	24-11-2016	3:00-4:00	Data aggregation in wireless sensor networks	Ms.Chaithra.H V	Assoc. Professor	27	0	0
CSE	04-01-2017	3:00-4:00	Introducing Bi Tools	Mr.Afroz Pasha	Assoc. Professor	29	0	0
CSE	25-01-2017	3:00-4:00	Understanding Big Data: Capture, Create, Analysis ,Applications And Issues	Ms.Meenakshi	Asst. Professor	17	0	0
CSE	28-02-2017	3:00-4:00	Simulation Techniques Of Spiking Neural Networks	Mr. Sreenivasa.N	Asst. Professor	18	0	0
CSE	28-03-2017	3:00-4:00	Can Drones Do More Than Fly	Ms. Uma.R	Asst. Professor	23	0	0
CSE	26-04-2017	3:00-4:00	Android Fundamentals	Ms. Shruthi.B.V	Asst. Professor	26	0	0
CSE	24-05-2017	3:00-4:00	Software Defined Networks	Ms. Ramya. Srikanteswara	Asst. Professor	20	0	0
CSE	28-06-2017	3:00-4:00	Localization In Wireless Sensor Networks	Ms. Ramyashree. B.R	Asst. Professor	22	0	0
CSE	21-07-2017	3:00-4:00	Augmented Reality	Ms. Nirmala.J. S	Asst. Professor	22	0	0
CSE	23-08-2017	3:00-4:00	Green Computing	Ms. Kavya. B.S	Asst. Professor	26	0	0
CSE	27-09-2017	3:00-4:00	Intelligent Transport System	Mr.Sathish.E.G	Asst. Professor	21	0	12
CSE	28-10-2017	3:00-4:00	An Overview Of Indian Regional Navigational Satellite System (Irns)	Ms.Asha. H.V	Asst. Professor	23	0	0
CSE	27-11-2017	3:00-4:00	Predictive Analysis An Overview	Ms.Sowmya.M.R	Asst. Professor	24	0	0
CSE	22-12-2017	3:00-4:00	Apache Cassandra	Ms.Jagadevi.N.K	Asst. Professor	16	0	0
CSE	16-01-2018	3:00-4:00	Co Assessment Tools, Co Target And Computation Of Co Attainment	Dr.M.N.Thippeswamy	Professor & HOD	32	0	0

CSE	26-02-2018	3:00-4:00	Cloud Centric IOT Challenges	Dr.Ramachandra	Professor	29	0	0
CSE	28-03-2018	3:00-4:00	An Overview Of DNA Computing	Ms.Sushma.M	Asst. Professor	19	0	0
CSE	27-04-2018	3:00-4:00	An overview on Deduplication	Ms.Poornima M S	Asst. Professor	21	0	0
CSE	31-08-2018	3:00-4:00	Fog Computing	Ms.Sharmila Sequeira	Asst. Professor	25	0	0
CSE	11-09-2018	3:00-4:00	Smart Grid	MS Shobha P	Asst. Professor	25	0	0
CSE	25-10-2018	3:00-4:00	Smart Healthcare System	Ms Pratheeksha Hegde	Asst. Professor	16	0	4
CSE	21-01-2019	3:00-4:00	Progressive web application	Mrs.Supriya.P	Asst. Professor	22	0	0
CSE	15-02-2019	3:00-4:00	Sensors in mobile activity recognition	Dr.Subhrajit Bhattacharya	Professor	20	0	0
CSE	27-02-2019	3:00-4:00	In social media: How your information is secure	Mr.Muthuraj .V	Asst. Professor	22	0	0
CSE	28-03-2019	3:00-4:00	Cloud security in multi cloud model using deep sky system	Mr.Ramesh Naidu	Asst. Professor	24	0	0
CSE	29-04-2019	3:00-4:00	Simulation of vehicle model for demonstrating safety features	Mr.Dankan Gowda	Asst. Professor	21	0	0
CSE	27-08-2019	3:00-4:00	Program slicing and its applications	Mr.Vinay T R	Asst. Professor	21	0	0
CSE	27-09-2019	3:00-4:00	Named Data Networking	Ms.Deepa kumari	Asst. Professor	15	0	7
CSE	28-10-2019	3:00-4:00	Cognitive Computing	Ms.Ushashree P	Asst. Professor	21	0	0
CSE	19-11-2019	3:00-4:00	Deep computer vision	Ms.Impana	Asst. Professor	22	0	0
CSE	31-01-2020	3:00-4:00	Assessment of New Idea and Procedure for Patent Registration in India	Dr.Vasanthakumar .G.U	Asst. Professor	26	0	0
CSE	27-02-2020	3:00-4:00	sensors and actuators using MEMS Technology	Chetan D Chavan	Asst. Professor	18	0	0
CSE	30/11/2020	3:00-4:00	Dynamic Assessment of Behaviour of Malware using	Dr. Shiva Darshan S.L	Asst. Professor	25	0	0

			Sandbox Technique					
CSE	28-12-2020	3:00-4:00	Machine learning Baed Design Space Exploration of Network-on-chips	Mr.Anil Kumar	Asst. Professor	25	0	0
CSE	28-01-2021	3:00-4:00	Energy Based Centrality Measure to Analyze Network Properties	Mrs. Mahadevi S	Asst. Professor	25	0	0
CSE	18-02-2021	3:00-4:00	Genetic Algorithms	Dr.Nalini.N	Professor	25	0	0
CSE	19-03-21	3:00-4:00	Deep learning with Tensoflow/Keras	Dr.Sarojadevi.H	Professor	17	0	0
CSE	29-04-21	3:00-4:00	Augmented Reality and Virtual Reality in Pioneering Application Domains	Dr. VijayaShetty S	Associate Professor	25	0	0
CSE	21-05-21	4:00-5:00	Microservices and Containerization	Dr.Mohan.B.A	Associate Professor	25	0	0
CSE	18-06-2021	3:00 PM to 4:00 PM	Artificial Intelligence	Ms.Archana.Naik	Associate Professor	25	0	0
CSE	29-07-2021	3:00 PM to 4:00 PM	Smart AI- Hand off to a human agent	Dr.Chaithra.H.	Associate Professor	25	0	0
CSE	18-08-2021	3:00 PM to 4:00 PM	Heterogeneous Parallel Processing for Biological Applications	Dr.N.Sreenivasa	Associate Professor	25	0	0
CSE	28.9.2021	3:00 PM to 4:00 PM	Artificial Intelligence in Healthcare	Dr. Sujata Joshi,	Associate Professor	25	0	0
CSE	28.10.2021	3:00 PM to 4:00 PM	Innovations and challenges in adopting Green Computing Technologies	Dr. Vasanthakumar GU	Associate Professor	25	0	0
CSE	29.11.2021	3:00 PM to 4:00 PM	Application and Evolution of Object Detection	Dr. Vani V	Professor	25	0	0
CSE	21-12-2021	3:00 PM to 4:00 PM	Internet of things in 5G ERA	Dr.Dileep Bolla Reddy	Associate Professor	25	0	0

CSE	21-01-2022	3:00 PM to 4:00 PM	Voice Assisted Text Reading System for Visually Impaired	Mrs. Trisheela S	Asst. Professor	25	0	0
CSE	21-02-2022	3:00 PM to 4:00 PM	Federated Learning in Edge Computing: Applications, Challenges, and Future Scope	Mr. Janardhan D R	Asst. Professor	25	0	0





**NITTE**  
EDUCATION TRUST

**NITTE MEENAKSHI  
INSTITUTE OF TECHNOLOGY**

An Autonomous Institution Affiliated to Visvesvaraya Technological University  
Approved by UGC/AICTE/Govt. of Karnataka, Accredited by NAAC (Grade 'A')



## DEPARTMENT OF MECHANICAL ENGINEERING

### STUDENT-CENTRIC ACTIVITIES REPORT

*Student-centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences*

#### **Response:**

NMIT believes in the adoption of students centric methods to enhance student involvement as a part of participative learning and problem-solving methodology. Role Plays, Team works, Debates, Seminar Quizzes and case studies Specifically Students centric Teaching Methods are reflected in project work, Field visits, Industrial visits & guest lectures.

Specifically, the student's centric methodology include

#### **1. Experiential Learning**

- a) **Project work:** Project work is organized in two phases 1) Mini project and 2) Major Projects this is an essential element of each programme
- b) Internship or Field Projects in industry

#### **2. Participation in competition at various level**

- For Real-time exposure, students are encouraged to participate at National and International Level

#### **3. Field Visits**

- Faculty identifies and propose Academically significant Field visits and Surveys

#### **4. Industrial Visits**

- Departments Plan and Organize industrial visits for students to provide exposure to industrial work culture.

#### **5. Guest Lecture**

- Guest lectures by eminent experts from industry and academics from across the world are organized to supplement the teaching process and provide experiential learning.

### ACTIVITIES

Sl. No.	Faculty Name	Name of the Course	Event	Date	Course Code	List of Topics covered
1	Dr Pradeep V Badiger	Measurements and Metrology	Guest lecture	6/5/2021	18MEG42	Industrial Importance Of Metrology And Measurements
2	Vikram Kedambadi Vasu	Digital Manufacturing	Seminar	6/7/2021	17MEE834	Augmented reality (AR) is an interactive experience of a real-world environment where the objects that reside in the real world are enhanced by computer-generated perceptual information, sometimes across multiple sensory modalities, including visual, auditory, haptic, somatosensory and olfactory...
3	Kiran Aithal S	Energy Environment and Sustainability	Guest lecture	5/5/2021	17ME81	Sustainable development of water, energy and waste management, Sustainable technology systems-a road map for sustainable development
4	Dr. Ramesh Babu N	Mechanical Vibrations	Workshop	7/24/2020	17ME63	Virtual lab (Natural frequency of Simple Pendulum, compound pendulum, Spring Mass system, Single rotor system, Two Rotor system, Critical speed of shafts etc)
5	Dr. Sriram Mukunda	Automotive Powertrain	Guest lecture	5/17/2021	18MEE461	(1) IC engine construction (2) sus-systems of an automobile (3) working of an engine management system (4) Functioning of the fuel supply system
6	Dr. Sriram Mukunda	Automotive Powertrain	Guest lecture	6/30/2021	18MEE461	The main topics that were covered in the presentation were (1) concept creation and selection (2) vehicle design and development

						(3) homologation and certification (4) production and allied processes.
7	Dr. Shiv Pratap Singh Yadav	Lean Manufacturing And Lean Enterprise	Guest lecture	4/3/2021	18MEH63	Lean And Process Approach
8	Dr. Shiv Pratap Singh Yadav	Industrial Importance Of Metrology And Measurements	Guest lecture	6/5/2021	18MEG42	Concept Of Measurement
9	Dr. Shiv Pratap Singh Yadav	Project Management/Finance And Accounting And Industrial Engineering	Guest lecture	6/19/2021	18MEH63	21st Century Competency Skills
10	Dr. Shiv Pratap Singh Yadav	Metrology And Measurements	Guest lecture	5/10/2021	18MEG42	Layer Composites For Brakes
11	Dr. Shiv Pratap Singh Yadav	Project Management/Finance And Accounting And Industrial Engineering	Guest lecture	6/4/2021	18MEH63	Project Management Using Six Sigma Approach
12	Dr. Shiv Pratap Singh Yadav	Metrology And Measurements	Guest lecture	6/26/2021	18MEG42	Helicopter Technology
13	Mahadeva Prasad	Farm Engineering	Guest lecture	5/22/2021	17MEE836	Device for cleaning, Grading, milling, and storage of farm produce
14	Chetan S	Industrial Hydraulics & Pneumatics	Guest lecture	12/5/2021	18ME62	Pascal Law, Continuity equations, Gas Laws, Pneumatic System Elements-Cylinders, Pump, Control Valves including Servo Valves, Compressors, Symbols, Hydraulic System Powerpack. Applications of Hydraulics & Pneumatics Examples

15	Chetan S	Pascal Law, Continuity equations, Gas Laws, Pneumatic System	Guest lecture	8/7/2021	18ME62	Introduction to PLC, Principles of Operation; Various Parts of a PLC: CPU & programmer/monitors; PLC input & output modules; I/O modules; power supplies. PLC advantage & disadvantage; PLC versus Computers
16	Chetan S	EMBEDDED Systems and Its Application	Guest lecture	9/7/2021	18ME62	Basic Elements of a Microprocessor: CPU, ALU, Memory, I/O Ports, Bus, Read & Write Cycle. Overview of Architecture of 8085 Microprocessor, Timing & Control Units.

## DEPARTMENT OF MECHANICAL ENGINEERING

Accredited by NBA (Tier-I)- ONE Degree INFINITE Opportunities



SKILL & EMPLOYABILITY  
PERSPECTIVE

# Topic: Industrial Importance of Metrology And Measurements



**Speaker:**  
Mr.P.Harish

Piston Quality Head  
Federal mogul Goetze  
india Ltd.

05/06/2021(Saturday)



02.30 PM onwards

[CLICK HERE FOR  
REGISTRATION](#)

**TENNECO  
POWERTRAIN**



Organised by:, Dr. P. V. Badiger, Mr. Shiv Patap, Dr. Sriram Mukunda



## DEPARTMENT OF MECHANICAL ENGINEERING

Accredited by NBA (Tier-I)- ONE Degree INFINITE Opportunities



SKILL & EMPLOYABILITY  
PERSPECTIVE

## Topic: 21<sup>ST</sup> CENTURY COMPETENCY SKILLS



**Speaker:**  
Ms.Kavita Dummu  
Regional Training Head  
Bada Business Pvt.Ltd.



19/06/2021(Saturday)



02.30 PM onwards



[CLICK HERE FOR  
REGISTRATION](#)

Organised by:, Mr. Shiv Patap, Mr. Avinash L, Dr .Vijay Kumar S, Mr. Praveena B A, Dr.AbdulrajakBuradi



## DEPARTMENT OF MECHANICAL ENGINEERING

Accredited by NBA (Tier-I)- **ONE** Degree **INFINITE** Opportunities



**SKILL & EMPLOYABILITY  
PERSPECTIVE**

## Topic: Energy, Environment and Sustainability



**Speaker:**

**Sri. D.R. Kumaraswamy**

Former Member Secretary and  
Head of Laboratories  
Karnataka State Pollution Control  
Board, Bengaluru



05/05/2021 (Wednesday)



12.00 Noon



[\*\*CLICK HERE FOR  
REGISTRATION\*\*](#)

Organized by: Dr Kiran Aithal, Dr Chethan K S, & Mr Manjunath H N



**E-mail: [drks.2859@gmail.com](mailto:drks.2859@gmail.com)**



## **Bio Data**

Sri. D.R. Kumaraswamy born on 02-08-1959 at Shivmogga, Shivmogga District, Karnataka, He graduated (B.E.Civil) at Davangere from GBDT College of Engineering, Mysore university in 1983 with first class with distinction. He completed his Master Degree (Environmental Engineering) from BVM College of Engineering, V.V. Nagar, Anand, Gujarat State.

He joined the Karnataka State Pollution Control Board during 1984 as Assistant Engineer. Board sent him West Germany during 1986-87 for “Advanced Professional Training” during his Training he visited important cities in West- Germany. And he also visited UK, France and Luxem burcountries.

During 2011-12 he visited Singapore to study on E-waste Recycling.

During 2012-13 he visited China to attend Electronic Recycling Asia and also visited Macaw, Hang Kong, Malaysia to study on Waste to Energy and Municipal Solid Waste disposal facility.

During 2013-14 he visited Germany, Austria, France, Switzerland and Dubai to study about the recycling of E-waste, Hazardous Waste, Municipal Solid Waste etc., also about the reuse of Plastic Waste as a fuel in Steel Mills.



During 2017-18 he visited USA study on recycling of sewage.

During 2019, he also went for Study tour to France, Sweden, Holland, Switzerland, Italy and Dubai.

He already published 12 Books in simple Local language Kannada and distributed about 12,000 Books to School Students and Industries without any cost.

He also published 3 Nos of Spiritual Books and 5 Nos of Spiritual CD's and Donated to Asharm.

He held the number of position in the **Pollution Control Board like Member Secretary, Chief Environmental Officer, Administrative Officer, Legal Officer, Public Relation Officer & Head of the Central Laboratory.** and worked almost all the district of the street.

**He is also an External Examiner for Visveswaraiah Technological University Engineering College.**

**Presently he is Retired Senior Environmental Officer Enviro care cell Head office, and SEO Bangalore North office, Bangalore.**

He has received number of awards from Local organizations

- (i) "ParisaraRatna" during 2005 from NehruRastriaParisaraSamste(R).
- (ii) "SwarnaBhushana" during 2006 from Karnataka PraghatiparaPrathistana
- (iii) "Karnataka SevaPuraskara" during 2007 from Karnataka PraghatiparaPrathistana(R).
- (iv) "Best Environmental officer" during 2018 from Rotary club and Lions club,Bengaluru

And He has completed his 35 years of service in Karnataka State Pollution Control Board.

**DEPARTMENT OF MECHANICAL ENGINEERING**Accredited by NBA (Tier-I)- **ONE** Degree **INFINITE** Opportunities**SKILL & EMPLOYABILITY  
PERSPECTIVE****Topic: Sustainable development of water, Energy and  
Waste management system****Speaker:****Dr. LOKESHWARI. M.**Associate Professor and  
NSS officerDepartment of Civil Engg,  
R V College of Engineering  
Bangalore-560 059

11/05/2021 (Tuesday)



12.00 Noon

**MS Teams – 8<sup>th</sup> Sem  
Seminar/Webinar/Meeting****Organized by: Dr Kiran Aithal, Dr Chethan K S, & Mr Manjunath H N**

Name: **Dr. LOKESHWARI. M.**  
 Address: Associate Professor and  
 NSS officer  
 Department of Civil Engg,  
 R V College of Engineering  
 Bangalore-560 059  
 ☎ : 9741214628(M)  
 e-mail:lokeshwarim@rvce.edu.in  
 e-mail:[eshwarienv08@gmail.com](mailto:eshwarienv08@gmail.com)

Scopus Author ID - 36717811400  
<https://www.scopus.com/authid/36717811400>

ORCID ID  
<https://orcid.org/0000-0001-6732-2221>

Google scholar ID: gfhN1-0AAAAJ  
<https://scholar.google.co.in/citations?user=gfhN1-0AAAAJ&hl=en>

Web of science Researcher ID: Q-2502-2016  
 Thomson Reuters  
<http://www.researcherid.com/rid/Q-2502-2016>

Microsoft academic researcher ID : 2903844078  
<https://academic.microsoft.com/author/2903844078/publication>



### ACADEMIC PROFILE - Abstract

Name : Lokeshwari M

Date of Birth : 15:01:1981

<b>Educational Qualification:</b>	<b>University</b>	<b>Year of passing</b>	<b>Result</b>
<b>Ph.D</b> in Civil Engineering Sciences	Visvesvaraya Technological University, Belgaum	2018	Degree awarded
<b>M.Tech</b> in Environmental Engineering	Visvesvaraya Technological University, Belgaum	2003	<b>93.5%</b> <b>Second rank</b> in Visvesvaraya Technological University
<b>Bachelor of Engineering</b> in Environmental Engineering	Mysore University	2001	86.7% First Class with Distinction

**Experience: Teaching : 13 years**

**Govt. Sector : 2 years**

From	To	Designation	Organization
August 2019	Till date	NSS officer	RVCE unit R.V.College of Engineering, Bengaluru. SAP ID: 5539
February 2019	Till date	Associate Professor	R.V.College of Engineering, Bengaluru. SAP ID: 5539
January 2011	January 2019	Assistant Professor	R.V.College of Engineering, Bengaluru. Emp ID: 08T0282
February 2008	December 2010	Lecturer	R.V. College of Engineering, Bengaluru
February 2007	August 2007	Lecturer	Sambhram institute of technology, Bangalore
March 2006	February 2007	Lecturer	Adichunchanagiri institute of technology, Chikmagalur.
September 2005	December 2005	Lecturer	P.E.S. College of Engineering, Mandya
November 2003	April 2005	Environmental Engineer at Mysore City Corporation	Appointed by Directorate of Municipal Administration.

### Publication citations:

	Scopus	Research Gate	Google Scholar	ASCE	Web of science	Microsoft Academic
No of Citations	2	55	47	8	34	14
No of documents	9	17	15	5	13	9
h Index	1	3	4		2	

### Awards / prizes:

1. **Best paper award** at National Conference on Advances in Civil Engineering NCACE-2020 conducted by East West Institute of Technology Bengaluru. 23<sup>rd</sup>- 24<sup>th</sup> December **2020**.
2. **Outstanding Indian Achiever Award of the Year 2020**, awarded by International Institute for social and economic reforms® on 29th February 2020 for the contribution in teaching and research for rural and intern national development.
3. **Top 2** in NPTEL course with Elite and Gold Medal with 93%, in an 8 week course on NPTEL conducted by **Indian Institute of Technology, Kharagpur, May 2019**.
4. **Dr. APJ Abdul Kalam National Award** on October 27, **2018**, for contribution to the implementation of Science and technology in rural areas for women and farmers development by teaching, research and publication awarded by Dr. Shivappa Former economic advisor NITI Aayog, Govt. of India, and Founder President of Government recognized and registered Krist foundation.
5. **Academic and Research Excellence awarded by** honourable President, Rastreyya Sikshana Samiti Trust, Bengaluru, in the year **2019, 2018, 2016, 2015 and 2009, 2008**.
6. **First prize** in Inter college Green fest for presentation on the topic Solid waste management. conducted by Association of Consulting Civil Engineers in association , Bengaluru, **2017** .
7. **Icon SWM 2015 Excellent paper award** in the 5<sup>th</sup> International Conference on Solid waste management, Icon SWM 2015, by Indian Institute of Science Bengaluru and International Society of Waste Management, Air and Water.
8. **Best paper award** at National Conference on Futuristic technology in Civil Engineering for sustainable development” conducted by SJB Institute of Technology, Bengaluru. 9<sup>th</sup> May **2015**
9. **Icon SWM 2014 Excellence Award** by Govt. of Andhra Pradesh, Department of Municipal Administration and Urban Development, **2014**.
10. **Young Researcher Award 2013** by ISTE-RVCE Chapter at R.V.College of Engineering, Bangalore.
11. **Young Environmentalist Award 2012** awarded by Universiti Malaysia Terengganu, Malaysia.
12. **Best paper awards : 5** (Two in National level and Three in International level)

### Publications:

No. of papers published in International Journals: **11** ; Scopus -5, Elsevier- 1, Google scholar- 5

No. of papers published in International Conference: **28** ; Best paper award– 3; ASCE- 9; Scopus -5

No. of Papers published in national Conferences: **12**; Best paper award– 3

No. of Guest Lectures delivered :34 - AICTE -FDP- 08, DST -STTP-2, Training Pgm -2, ISTE - 02, Workshop - 4, MoEF – TP- 14, EMPRI- GoK- 13

No. of UG and PG projects guided :23

No. of training programmes and workshops organised: 15

No. of training programmes, workshops and conferences conducted as co-ordinator : 12

No. of workshops attended:14

No. of Conferences attended:16

No of QIP attended: 18

**Countries visited for conference** : Malaysia, Singapore, Japan, Philippines.etc.

**Book Chapter published in National and International Editions:**

	Chapter	Book	Co Authors	Editorial board	Publisher
1	Peak flood estimation along southern coast : Kerala, India.	Asian and pacific coasts 2017	Vikas M, Amarnatha reddy N	Kyung-Duck Suh – South Korea, Eri C Cruz - Philippines, Yoshimitsu Tajima – Japan <b>American Society of Civil Engineers</b>	<b>World Scientific Publishing Co Pvt Ltd., Singapore</b>
ISBN 978-981-3233-80-5 ISBN ( e book ) : 978-981-3233-81-2 <a href="http://www.worldscientific.com/doi/abs/10.1142/9789813233812_0017">http://www.worldscientific.com/doi/abs/10.1142/9789813233812_0017</a>					
2	Route Optimization for efficient Collection, Transportation and Sustainable Solid Waste Management in Mysore city using Geographic Information System	Waste management and resource utilization 2012	C. Nanjunda Swamy	Dr. Sadan K Ghosh, Hermann Koller, Dr.Jonathan Wong et.al <b>International Society of Waste Management, Air and Water.</b>	Oxford publishing house, Kolkota
e-book ISBN 81-86862-49-8 <a href="https://www.academia.edu/8286050">https://www.academia.edu/8286050</a> .					
3	Carbon Electroluminescence - An Organic Approach to Lighting	AIP Conference Proceedings vol. 1966 2018	Sonali Kumari, Tarun Chaudhary, Vivek Chandran, K.Shastry	<a href="https://doi.org/10.1063/1.5038697">https://doi.org/10.1063/1.5038697</a>	Elsevier publication <b>Indexed in scopus</b>
ISBN: 978-0-7354-1671-0; <a href="https://aip.scitation.org/toc/apc/1966/1?expanded=1966">https://aip.scitation.org/toc/apc/1966/1?expanded=1966</a>					
4	Co-Composting of Municipal Solid Waste with Sewage Sludge for Sustainable Waste Management in Urban Areas	Urbanization Challenges in Emerging Economies ; Energy, Water, and Transportation Infrastructure; Planning and Financing	M. Lokeshwari, Vikas Mendi, T. Raghavendra, Amaranatha Reddy and B. C. Udayashankar,	Udai P. Singh B. R. Chahar H. R. P. Yadav Satish K. Vij <b>American Society of Civil Engineers</b>	Published by the American Society of Civil Engineers
ISBN 978-0-7844-8202-5 (PDF) pp 79-89 <a href="https://ascelibrary.org/doi/10.1061/9780784482025.009">https://ascelibrary.org/doi/10.1061/9780784482025.009</a>					

5	What Is the Tidal Energy Potential of Sri Lanka?	Urbanization Challenges in Emerging Economies ; Energy, Water, and Transportation Infrastructure; Planning and Financing	Vikas Mendi, N. Amarnatha Reddy, M. Lokeshwari, T. Raghavendra and Jaya Kumar Seelam	Udai P. Singh B. R. Chahar H. R. P. Yadav Satish K. Vij  <b>American Society of Civil Engineers</b>	Published by the American Society of Civil Engineers
ISBN 978-0-7844-8202-5 (PDF) pp 358-365. <a href="https://ascelibrary.org/doi/10.1061/9780784482025.037">https://ascelibrary.org/doi/10.1061/9780784482025.037</a>					
6	Flood Estimation Using Probability Distribution Function Based Synthetic Unit Hydrograph Methods at Ungauged Catchments in Varrar Basin, Kerala, India	Urbanization Challenges in Emerging Economies ; Energy, Water, and Transportation Infrastructure; Planning and Financing	N.Amarnatha Reddy, Vikas Mendi, T.Raghavendra and M. Lokeshwari	Udai P. Singh B. R. Chahar H. R. P. Yadav Satish K. Vij  <b>American Society of Civil Engineers</b>	Published by the American Society of Civil Engineers
ISBN 978-0-7844-8202-5 (PDF) pp 142-153. <a href="https://ascelibrary.org/doi/10.1061/9780784482025.016">https://ascelibrary.org/doi/10.1061/9780784482025.016</a>					
7	Effect of Water Content on Relative Flow Area and Hence Predicted Flow Values of Controlled Low Strength Materials	Urbanization Challenges in Emerging Economies”; Resilience and Sustainability of Infrastructure	T. Raghavendra , B. C. Udayashankar M. Lokeshwari, M. Vikas and N. Amaranath Reddy	Udai P. Singh  G. L. Sivakumar Babu  <b>American Society of Civil Engineers</b>	Published by the American Society of Civil Engineers
ISBN 978-0-7844-8203-2 (PDF) pp 184-195. <a href="https://ascelibrary.org/doi/10.1061/9780784482032.020">https://ascelibrary.org/doi/10.1061/9780784482032.020</a>					

### **Completed R and D Projects :**

‘Mitigation of ground water contamination by Decentralized solid waste management’ funded by HUDCO. – 5 Lakhs, 2016

Varunmitra – Skill development program funded by National Institute of Solar Energy, MNRE – 3.6 Lakhs.

### **Ongoing Projects :**

Air quality monitoring station ( 589) funded by Karnataka State Pollution Control Board. Research involves Monitoring of Air quality at R V College of Engineering campus and uploading the data to KSPCB. Presently monitoring only 4 parameters. Applied for up gradation of the existing monitoring station.

### **R&D Projects submitted :**

- Upgradation of air quality monitoring station, established under NAMP at RVCE – Submitted to CPCB – 83Lakhs.
- Development of self-curing and self-compacting building blocks from industrial waste and byproducts. – submitted to DST. – 30.5 Lakhs
- Development of conductive Controlled Low Strength Materials containing mining ore tailings - submitted to Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India – 55.82 Lakhs
- Utilization of alumina industrial waste for novel mix design in the development of Controlled Low Strength Materials - submitted to Vision Group on Science and Technology, Government of Karnataka – 3 Lakhs.

### **Consultancy Completed: more than 30 Lakhs.**

1. Water quality analysis of 68 samples given to Environmental Engineering lab in the month July 2014 under the project entitled “A study of water availability and quality in Chikkaballapur district using data mining techniques and experimental verification to evolve a plan for sustainable quality ground water.” Funded by Department of Panchayat Raj and Rural Development, **Government of Karnataka**.
2. Analysis of Grain size distribution and strength of building blocks using granite fines supplied by various granite industries of Jigani Industrial area through **Pollution control board**. 2015
3. Performance evaluation of existing sewage treatment plant by M/S Uniworth tranquil owners association. 2018
4. Proof checking/Vetting of Structural / Hydraulic (Pipe line) Design and Drawing for the project Design, Build. Operate and Transfer of multi village drinking water supply scheme for Kushtagi taluk, for Rural Drinking Water and Sanitation Department, **Government of Karnataka** 2018.
5. Proof checking/Vetting of Structural / Hydraulic (Pipe line) Design and Drawing of 181.45 MLD water treatment plant, Pavagada for the project Design, Build. Operate and Transfer of multi village drinking water supply scheme, for **Rural Drinking Water and Sanitation Department, Government of Karnataka**. 2019.
6. Vetting of Impounding Reservoir – Chikkamadinala Project for **Rural Drinking Water and Sanitation Department, Government of Karnataka**. August 2019
7. Vetting of Impounding Reservoir – Herur and Hulihyder Project for **Rural Drinking Water and Sanitation Department, Government of Karnataka**. 2019
8. Vetting of water supply scheme to 10 villages of Aurad taluk of Bidar district for Karnataka Urban water supply and drainage board.

### **Professional bodies membership:**

<b>Type</b>	<b>Organization</b>
Graduate member Member ID G-541352-5	Institution of Engineers, India
Life member Member ID LM-71668	Indian Society for Technical Education
Member of Project management unit	Hindu Religious Institutions and Charitable Endowments Department, Govt. of Karnataka and Rural drinking water and sanitation department, Govt. of Karnataka.

Member of Regional Level Consent Committee	Karnataka State Pollution Control Board, South - I and East – II, Bangalore. (From 2009 to 2013)
Member of BoS	Department of Civil Engineering, R.V.College of Engineering, Bengaluru. Autonomous under VTU. 11.09. 2015 - 10.09. 2018
Member of BoE	Department of Civil Engineering, R.V.College of Engineering, Bengaluru. Autonomous under VTU from 2019 till date Department of Civil Engineering, UVCE , 2020 till date
Member ID 11065915	American Society of Civil Engineers
Member of ‘Future Bangalore’ committee	constituted by President of Structural Engineers World congress Inc., which is headed Member of Parliament.
Member	Staff Selection committee, Govt. of India.
Member	‘Policy formulation committee’ which is presided by Honorable minister for Bengaluru development and town planning to formulate policy for the development of major urban cities in Karnataka.

### **Reviewer for Journal and Conferences:**

- Reviewer for Second ASCE India Conference 2020 organised by American Society of Civil Engineers, India Section , on “Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies (CRSIDE 2020)” at Kolkata during March 02-04, 2020 under the aegis of ASCE.
- Reviewer for the International Journal of Scientific Engineering and Technology from 2012. ISSN 2277-1581.
- Reviewer for International conference on Solid waste management ICoN SWM 2016.
- Member of Reviewer board for Pravara Journal of science and technology. (PJST) Approval No. Feb/2017/11, term 20/02/2017 to 20/2/2018.
- Member of Advisory Committee for the conference on Innovative Ideas in Engineering and Technology (IIET - 2018), held on 12<sup>th</sup> - 13<sup>th</sup> April 2018. IIET - 2018 organized by Rao Bahadur Y Mahabaleswarappa Engineering College (RYMEC) and Institute For Engineering Research and Publication (IFERP) at Cantonment Bellary, Karnataka.
- Member of Advisory Committee for International conference on recent advances in civil and mechanical engineering practices, ICRACMEP 2018, which will be held at Vasireddy Venkatadri Institute of Technology (VVIT), Guntur Andra Pradesh. on 2<sup>nd</sup> – 3<sup>rd</sup> November 2018 in association with Institute for Engineering Research and Publication (IFERP).
- Member of Advisory Committee for the conference 5<sup>th</sup> international conference on applied science engineering and technology ICASET 18, held on 17<sup>th</sup> 18<sup>th</sup> May 2018, at Sri Sairam College of Engineering, Anekal
- Member National Advisory Committee and outreach committee by Institute for Engineering Research and Publication (IFERP) for the 4<sup>th</sup> International conference on Chip, Circuitry, Current, Coding, Combustion and Composites jointly organized by Sri Sairam College of Engineering, Anekal

### **Session chair for conferences:**

- National Conference on Advances in civil engineering NCACE- 2018 held during 28<sup>th</sup> – 29<sup>th</sup> September 2018. Technical session on Environmental Engineering and waste management on 29/09/2018 at East West Institute of Technology, Bengaluru organized in association with Indian Concrete Institute, Zero Waste Society of India and Ultratech Cement



- International Conference on “Impact of global atmospheric changes on natural resources” held during 19th – 20th November 2018. Technical session on Ground water 20/11/2018 at Department of Civil Engineering. University Visvesvaraya College of Engineering.

Lokeshwari M

## DEPARTMENT OF MECHANICAL ENGINEERING

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**SKILL & EMPLOYABILITY  
PERSPECTIVE**

# Topic: Sustainable Technology Systems – A road map for sustainable development



**Speaker:**  
**Sri. SHAMSUNDAR SUBBARAO**  
Head, NIE- CREST,  
( NIE- Centre For Renewable Energy &  
Sustainable Technologies)  
The National Institute Of Engineering  
Mysore



02/06/2021 (Wednesday)



12.00 Noon



**MS Teams – 8<sup>th</sup> Sem  
Seminar/Webinar/Meeting**

Organized by: Dr Kiran Aithal, Dr Chethan K S, & Mr Manjunath H N



**E-mail: [drks.2859@gmail.com](mailto:drks.2859@gmail.com)**



## **Bio Data**

Sri. D.R. Kumaraswamy born on 02-08-1959 at Shivmogga, Shivmogga District, Karnataka, He graduated (B.E.Civil) at Davangere from GBDT College of Engineering, Mysore university in 1983 with first class with distinction. He completed his Master Degree (Environmental Engineering) from BVM College of Engineering, V.V. Nagar, Anand, Gujarat State.

He joined the Karnataka State Pollution Control Board during 1984 as Assistant Engineer. Board sent him West Germany during 1986-87 for “Advanced Professional Training” during his Training he visited important cities in West- Germany. And he also visited UK, France and Luxem burcountries.

During 2011-12 he visited Singapore to study on E-waste Recycling.

During 2012-13 he visited China to attend Electronic Recycling Asia and also visited Macaw, Hang Kong, Malaysia to study on Waste to Energy and Municipal Solid Waste disposal facility.

During 2013-14 he visited Germany, Austria, France, Switzerland and Dubai to study about the recycling of E-waste, Hazardous Waste, Municipal Solid Waste etc., also about the reuse of Plastic Waste as a fuel in Steel Mills.

During 2017-18 he visited USA study on recycling of sewage.

During 2019, he also went for Study tour to France, Sweden, Holland, Switzerland, Italy and Dubai.

He already published 12 Books in simple Local language Kannada and distributed about 12,000 Books to School Students and Industries without any cost.

He also published 3 Nos of Spiritual Books and 5 Nos of Spiritual CD's and Donated to Asharm.

He held the number of position in the **Pollution Control Board like Member Secretary, Chief Environmental Officer, Administrative Officer, Legal Officer, Public Relation Officer & Head of the Central Laboratory.** and worked almost all the district of the street.

**He is also an External Examiner for Visveswaraiah Technological University Engineering College.**

**Presently he is Retired Senior Environmental Officer Enviro care cell Head office, and SEO Bangalore North office, Bangalore.**

He has received number of awards from Local organizations

- (i) "ParisaraRatna" during 2005 from NehruRastriaParisaraSamste(R).
- (ii) "SwarnaBhushana" during 2006 from Karnataka PraghatiparaPrathistana
- (iii) "Karnataka SevaPuraskara" during 2007 from Karnataka PraghatiparaPrathistana(R).
- (iv) "Best Environmental officer" during 2018 from Rotary club and Lions club,Bengaluru

And He has completed his 35 years of service in Karnataka State Pollution Control Board.

## CERTIFICATE OF PARTICIPATION

This certificate is presented to

*KARSHIK N*

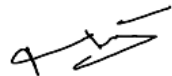
bearing USN 1NT13ME068

for attending webinar Series on  
**Energy, Environment and Sustainability**  
held during the academic year 2020-21.

Topic-1 : Energy, Environment and Sustainability  
Date : 05/05/2021  
Speaker : Sri D R Kumaraswamy,  
Former Member Secretary and Head of Laboratories,  
Karnataka State Pollution Control Board, Bengaluru

Topic-2 : Sustainable development of water, Energy and  
Waste management system  
Date : 11/05/2021  
Speaker : Dr Lokeshwari M,  
Associate Professor and NSS Officer,  
RV College Of Engineering, Bengaluru

Topic-3 : Sustainable Technology Systems – A road map for  
sustainable development  
Date : 02/06/2021  
Speaker : Prof Shamsundar Subbarao,  
Head, NIE-CREST, NIE, Mysuru



Dr Kiran Aithal S  
Faculty In Charge



Dr Chethan K S  
Faculty In Charge



Mr Manjunath H N  
Faculty In Charge



Dr Sudheer Reddy J  
Prof & Head

## DEPARTMENT OF MECHANICAL ENGINEERING

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SKILL & EMPLOYABILITY  
PERSPECTIVE

# Topic: HELICOPTER TECHNOLOGY



**Speaker:**  
Dr.Simon. K. John  
Wing Commander (Retd.)  
Indian Air Force  
Emeritus Scientist(ScG)  
DRDO



26/06/2021(Saturday)



10.00 AM onwards



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REGISTRATION](#)

Organised by: Dr. P.B. Shetty, Dr. Arun Kumar G L, Mr. Shiv Patap, Dr.Avinash L Mr. Praveena B A



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PERSPECTIVE

# Topic: LAYER COMPOSITES FOR BRAKES



**Speaker:**  
**Dr T R Prabhu**  
Scientist & Deputy  
Director  
DRDO, Govt of India,  
Bengaluru



10/05/2021 (Monday)



10.00 AM onwards



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REGISTRATION](#)

Organised by: Mr. Shiv Patap, Mr. Avinash L, Dr. Pradeep Badiger, Dr. Sriram Mukunda



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**DEPARTMENT OF MECHANICAL ENGINEERING**

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**ONLINE WEBINAR ON VIRTUAL LABS**



21/072020 to 25/07/2020



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An MHRD Govt. of india initiative

Date	Time	Lab
21-07-2020	10:30 to 11:45	Digital VLSI design Virtual lab [ECE]
22-07-2020	10:30 to 11:45	Mechanisms and Robotics lab [ME]
24-07-2020	10:00 to 11:15	Vibration and Acoustics lab [ME]
24-07-2020	11:30 to 12:45	Data Structures lab [ISE]
24-07-2020	13:00 to 14:15	Strength of Materials lab [Civil]
25-07-2020	10:00 to 11:15	Computer Graphics lab [CSE]
25-07-2020	11:30 to 12:45	Cryptography lab[CSE]
25-07-2020	13:00 to 12:15	Mechanics of Materials lab [ME]





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SKILL & EMPLOYABILITY  
PERSPECTIVE

# Topic: PROJECT MANAGEMENT USING SIX SIGMA APPROACH



**Speaker:**  
**Mr. B M Jagadeesh**  
Production System and  
Competency  
Development SKF India  
Ltd.



04/06/2021(Friday) and  
05/06/2021(Saturday)



06.30 PM onwards



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REGISTRATION](#)

Organised by: Mr. Shiv Patap, Mr. Avinash L, Dr. Vijay Kumar S, Mr. Praveena B A, Dr. Abdulrajak Buradi



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SKILL & EMPLOYABILITY  
PERSPECTIVE

Topic: Device for cleaning , Grading, milling and storage of farm produce



**Speaker:**

**Dr POORNIMA D.S**

Assistant Professor,  
Department of Agriculture  
Engineering ,GKVK ,  
Bengaluru



22/05/2021 &  
28/05/2021



9.00 AM onwards



**Zoom ID: 4527426208**  
**PASSCODE: 123456**

Coordinator: Mr.Mahadeva Prasad

Convenor : Dr. Sudheer Reddy J



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SKILL & EMPLOYABILITY  
PERSPECTIVE

**Topic: Automotive Powertrain Systems**



**Speaker:**

**Mr. Umesh S**

Assistant Professor

Dept. of Aerospace

Engg

M S Ramaiah university

of Applied Sciences,

Bangalore - 570058



17/05/2021 (Monday)



3:30pm – 5:30pm

**Organized by Dr. Sriram Mukunda**



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SKILL & EMPLOYABILITY  
PERSPECTIVE

# Topic: Overview of Vehicle Development – Concept to Market



### Speaker:

**Mr. Dhananjaya B C**

Former Lead Subject  
Matter Expert – Crash  
and Safety at General  
Motors Technical  
Centre India.



30/06/2021 (Wednesday)



6:00pm – 7:00pm

Organized by Dr. Sriram Mukunda





DEPARTMENT OF MECHANICAL ENGINEERING

WEBINAR ON

# AUGMENTED REALITY & VIRTUAL REALITY

07/06/2021  
11:00 AM - 12:00 PM

Convenor:  
**Vikram Kedambadi Vasu**  
Assistant Professor, Department of Mechanical Engineering

Co-ordinators:  
**Mahadeva Prasad**  
Assistant Professor, Department of Mechanical Engineering  
**Praveena B A**  
Assistant Professor, Department of Mechanical Engineering  
**Lokesh N**  
Assistant Professor, Department of Mechanical Engineering

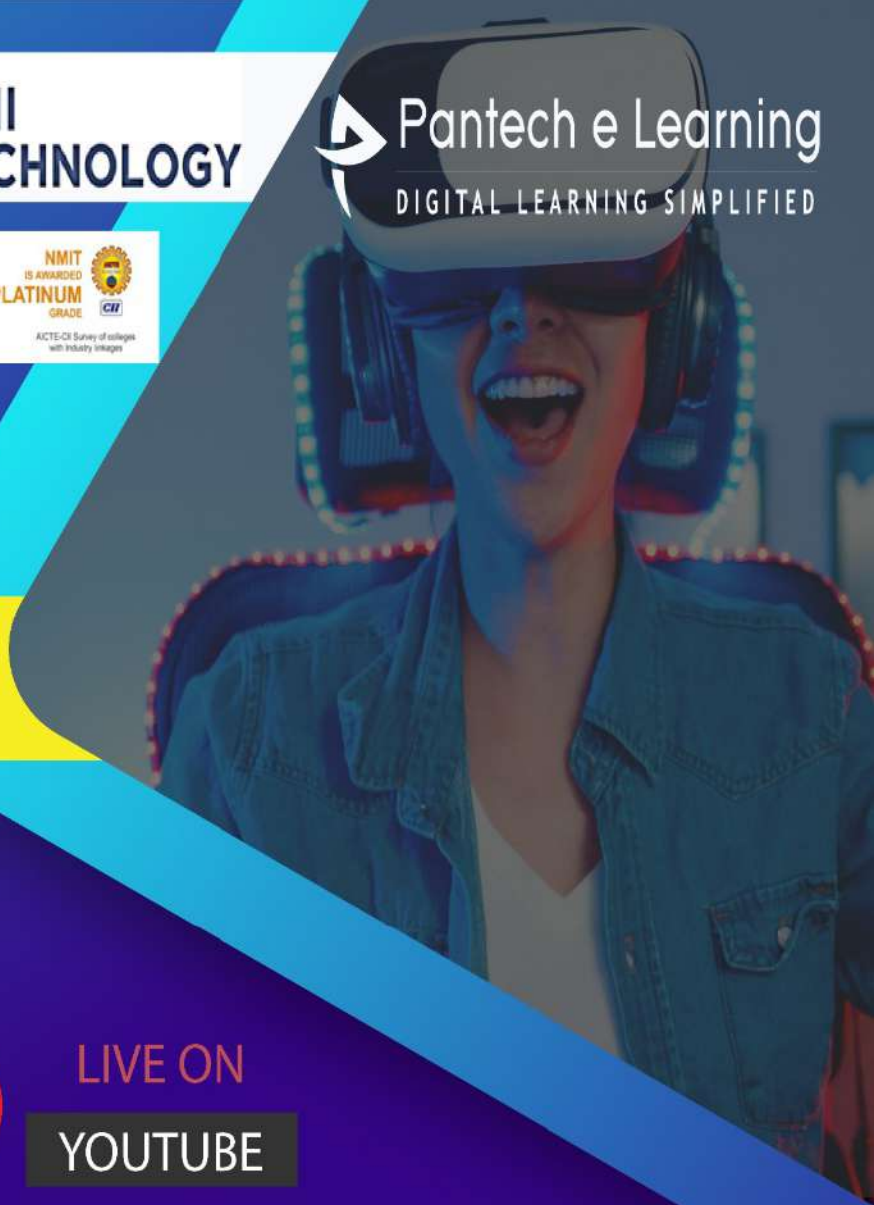


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## **Department of Mechanical Engineering**

*Cordially invites you to the One Day Workshop On*

**“LEAN MANUFACTURING AND LEAN ENTERPRISE”**

In association with



**Chief Guest**

**Shri. B M Jagadeesh**

**Production System and Competency Development**

**SKF India Ltd.**

**Date : 03rd April 2021    Time : 9:30 a.m onwards    Venue : New Seminar Hall**

**DEPARTMENT OF MECHANICAL ENGINEERING**

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SKILL & EMPLOYABILITY  
PERSPECTIVE

**Topic: Programmable Logic Controller Operations & Applications**



**Speaker:**  
**Santosh M.S**  
Didactics Department  
Hydac India Private Limited

Webinar Mapping: Applied Mechatronics  
Syllabus topics covered:

**Programmable Logic Controllers  
(Unit-5)**



08/07/2021(Thursday)



Morning - 11:00 AM -12:30 PM  
Afternoon - 2:30 PM - 4:00 PM



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REGISTRATION](#)



Coordinator : Chetan.S  
For Further Enquiry Contact: +91 9538807642

Website: [www.nmit.ac.in](http://www.nmit.ac.in)



## PROFILE

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**Name** : Santhosh.M.S  
**Department** : Sales - Didactics  
**Designation** : Senior Manager

### Introduction

- Working in Hydac India Private Limited since 2019.
- Responsible for setting up CoE @ Technical Institutions
- Development of Training Systems
- Impart training on various fields of Automation Technologies

### Previous work experiences

- M/s. Kirloskar Electric Company, Mysore as Trainee - from 1999 to 2000
- M/s. Temec Automation, Mysore as Application support engineer - from 2001 to 2002
- M/s. Sytech Engineering Pvt. Ltd as Quality Engineer - from 2002 to 2005.
- M/s. Chartered Semiconductors as Semiconductor technician - from 2005 to 2007.
- M/s. Bosch Rexroth India Private Limited as Senior Manager - from 2007 to 2019

### KEY HIGHLIGHTS

- Bosch Rexroth AG - Certified trainer for Continuous Control Hydraulics, Pneumatics, TRONICS, Digital Hydraulics, Mobile Hydraulics and Industry 4.0
- Key personnel for Digital Hydraulics and Proportional Hydraulics in India.

### Contact Details

Contact No. +91-9731322550  
Email: santhosh.srinivas@hydacindia.com



## Content covered:

- Programmable Logic Controllers (PLC)
- Introduction to PLC, Principles of Operation;
- Various Parts of a PLC: CPU & programmer/ monitors;
- PLC input & output modules; I/O modules; power supplies.
- PLC advantage & disadvantage; PLC versus Computers.

# COMPARISION PC with PLC



CPU/Memory

CPU/ RAM/ Hard disk

CPU/ RAM/ Flash Card

Power Supply

220V AC, 1 Ph.

220V AC / 24V DC

Inputs

Key board, Mouse, Remote station (LAN)

Push Button, Selector, Limit Switch, Bus Interface

Outputs

Monitor, Printer, Projector Etc.,

Solenoids, Relays, Lamps, Motors, HMI

Software

OS: Windows XP / SW: MS Office

OS: Firmware / SW: Machine Logic



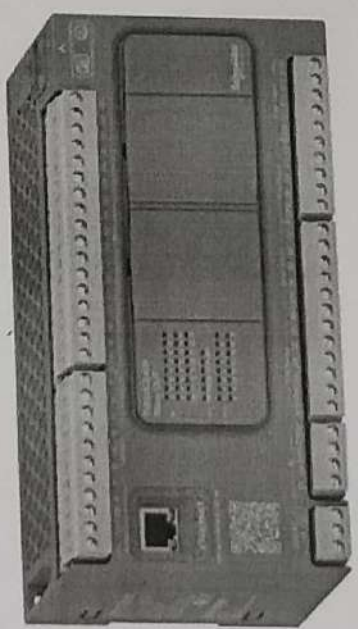
Navigation bar with icons: +70, RT, LR, PS, DV, CS, DS, SS

Profile icons: Rishabh J, Dhanush H S, Anish Kumar

Document thumbnails: Programmable Lo..., EMBEDDED System..., Industrial Hydraul...

Open with

# PLC Specifications



Product Name	Easy Modicon M200
Rated supply voltage	100...240 V AC
Discrete input number	24
Discrete output number	16 (Relay Output) 2Amps
Discrete output type	Relay normally open
Response time	100 μs turn-off for regular I/O 35 μs turn-on for regular I/O
Memory capacity	512 byte internal flash for backup of programs
Cycle Time	3 ms for event and periodic task
Protection	IP20

**HYDAC** ACADEMY

Navigation icons: +102, PP, SZ, AM, MSE QP template.docx, 2018 SCHEME UP...pdf, incubators10 (1).pdf, incubators10 (1).pdf, AC, LK, CS, SS

User avatars: Ashish Chughra, Aditya Vikram, Dr. Subram Babu, Chetans S.

**EcoStructure**

Machine Expert - Basic

Configuration

Program error(s) detected

Not Connected

Display


Open with

**Messages**

- MyController (TM221M16R/G)
  - Digital inputs
  - Digital outputs
  - Analog inputs
  - High Speed Counters
  - IO Bus
    - SL1 (Serial line)
      - Modbus
    - SL2 (Serial line)
      - Modbus

**Device information**

TM221M16R/G



**Messages**

Device description  
TM221M16R (screw), TM221M16RG (spring)  
8 digital inputs, 8 relay outputs (2 A), 2 analog inputs, 2 serial line ports, 24 Vdc power supply controller with removable terminal blocks.

**Power sup...**

Reference	Power sup...
TM221M16R	100-240 Vdc
TM221C16T	24 Vdc
TM221C16J	24 Vdc
TM221C16B	19V 7.6A Vdc

- M200 Logic Controllers
- M100 Logic Controllers
- TM3 Digital I/O Modules
- TM3 Analog I/O Modules
- TM2 Digital I/O Modules
- TM2 Analog I/O Modules
- TM3 Expert I/O Modules
- M221 Cartridges
- M200 Cartridges

**Device description**  
TM221C16R (screw)  
9 digital inputs, 7 relay outputs (2 A), 2 analog inputs, 1 serial line port, 100-240 Vdc power supply with removable terminal blocks.  
Power supplied to the IO bus

5V	24V
325 mA	120 mA

Sl.No	USN	Name	
1	1NT15ME020	ASM Adnan Kabir Ratul	A
2	1NT16ME069	Prakarsh Prasar	A
3	1NT16ME095	Shashank S Kashyap	A
4	1NT16ME177	Suhas V	A
5	1NT17ME036	Bikesh Yadav	A
6	1NT17ME037	Bineel N B	A
7	1NT17ME125	Shekhar B N	A
8	1NT17ME140	Syed Abid	P
9	1NT18ME002	A Sharanya	P
10	1NT18ME013	Akansha Gupta	P
11	1NT18ME016	Alini Christ Paul	P
12	1NT18ME017	Aman Basavaraj Biradar	P
13	1NT18ME018	Aman Kumar	P
14	1NT18ME028	Balaji G V	P
15	1NT18ME035	Chandrashekar L	P
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17	1NT18ME037	Chetan B	P
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19	1NT18ME039	Chethan Kumar K R	P
20	1NT18ME042	Chukkala Dheeraj	P
21	1NT18ME043	Deekshith V	P
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23	1NT18ME102	Pallavi G	P
24	1NT18ME059	Karthik Bhovi N	P
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36	1NT18ME091	Neeraj Thondikatil Jothish Kumar	P
37	1NT18ME092	Nikhil Raj M V	P
38	1NT18ME094	Nishanth R Gowda	P
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44	1NT18ME126	Rishab T	P
45	1NT18ME128	Rohit N	P
46	1NT18ME130	Roshni Rajan Naroor	A
47	1NT18ME143	Shetty Hrithik Vasantha	P
48	1NT18ME145	Srikar I	P
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50	1NT18ME151	Sunilkuamr B S	P
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53	1NT18ME159	Tanish Purwar	P
54	1NT18ME162	Tushar Verma	P
55	1NT18ME408	Kanakaraju N	P
56	1NT19ME403	Dhanush C	P
57	1NT19ME406	Huliya D	P
58	1NT19ME407	Jaibheem Hatgundi	P
59	1NT19ME409	Manikanta P	P
60	1NT19ME411	Mumin Malik	P
61	1NT19ME419	Shilpa S Walaki	P
62	1NT19ME420	Sindhu D	P
63	1NT19ME421	Tabasum Banu	P
64	1NT19ME422	Vaibhav C	P

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1	1NT17ME144	Tejas T N	A
2	1NT18ME001	A Aryan	P
3	1NT18ME003	A Somasourya Sarma	P
4	1NT18ME004	Aakash Kumar Patel	P
5	1NT18ME006	Adithya Naik P U	P
6	1NT18ME007	Adithya Sreepathy Ekendra	P
7	1NT18ME008	Aditya Kashyap	P
8	1NT18ME009	Aditya V	P
9	1NT18ME012	Ajay Rao	P
10	1NT18ME019	Amrutha Raj A	A
11	1NT18ME020	Aniket Choudhary	P
12	1NT18ME025	Avanth G Jinkal	P
13	1NT18ME040	Chiranth K N	P
14	1NT18ME044	Dhanush Kumar S	P
15	1NT18ME045	Dinesh Kumar Sahoo	P
16	1NT18ME046	Dishad Kumar B T	A
17	1NT18ME047	G N Nagaharish	P
18	1NT18ME048	Guntupalli Srihari	P
19	1NT18ME052	Hruthik Babu G S	P
20	1NT18ME053	Jai S Naik	P
21	1NT18ME055	Jayanth A C	P
22	1NT18ME058	K Sai Krishna	P
23	1NT18ME063	Kifayath Ulla Shariff	P
24	1NT18ME066	Koushal Satyanarayan Bhutada	P
25	1NT18ME070	Likith S B	P
26	1NT18ME071	Lokavishruth K	P
27	1NT18ME072	Lokeshwar K S	P
28	1NT18ME075	Mahesh Kumar Godara	P
29	1NT18ME095	Nitesh Basavaraj Hallad	P
30	1NT18ME096	Nithin H V	P
31	1NT18ME097	Nithin K C	P
32	1NT18ME099	Nitish S	P
33	1NT18ME100	Nivas M S	P
34	1NT18ME101	Omair Iqbal	P
35	1NT18ME103	Patush T M	P
36	1NT18ME105	Pavan Kumar Bh	P
37	1NT18ME107	Piyush Prabhakar	P
38	1NT18ME115	Puneeth Gaikwad L	P
39	1NT18ME123	Ravindra Nayak M	P
40	1NT18ME124	Reuben Richardson	P
41	1NT18ME127	Rishi K	P
42	1NT18ME129	Rohit Raj	P
43	1NT18ME131	S Kishor	P

44	1NT18ME132	S N Harshith	P
45	1NT18ME133	S Naga Vamsi Ganesh Manepalli	P
46	1NT18ME153	Sunil Pareek	P
47	1NT18ME155	Suraj K H	P
48	1NT18ME161	Tejas Alva	P
49	1NT18ME163	Uday Kumar B V	P
50	1NT18ME164	V R Prashanth Kumar	P
51	1NT18ME165	Vaishnu Teja S S	P
52	1NT18ME167	Vijaya Guru S P	P
53	1NT18ME168	Vijeeth Vijay Kumar	P
54	1NT18ME169	Vikas Anand	P
55	1NT18ME173	Yashas M	P
56	1NT19ME405	Hari Kumar P M	P
57	1NT19ME410	Manoj Gowda C U	P
58	1NT19ME412	Nanda Mohan Chowdari B R	P
59	1NT19ME414	Prateek Kumbar	P
60	1NT19ME416	Raghavendra V Hegde	P
61	1NT13ME176	Harish C	P



Sl.No	USN	Name	
1	1NT15ME016	Ashik B P	A
2	1NT15ME083	N Vaibhav	A
3	1NT17ME121	Satwick S Shetty	P
4	1NT18ME010	Aditya Vikram	P
5	1NT18ME011	Advaith S Agasthya	P
6	1NT18ME014	Akash Basavaraj Biradar	P
7	1NT18ME015	Akshay Jha	P
8	1NT18ME021	Anilkumar Saidapur	P
9	1NT18ME023	Arjun K L	P
10	1NT18ME024	Aryan S	P
11	1NT18ME029	Bhadresh J Mudakamath	P
12	1NT18ME030	Bhanu A R	A
13	1NT18ME032	Bharath Kumar N	P
14	1NT18ME034	Chandram	P
15	1NT18ME041	Chiranth Raj M R	P
16	1NT18ME049	Hancy Ronaldo Dsouza	P
17	1NT18ME054	Jaideep S	P
18	1NT18ME056	Jayanth D Hombal	P
19	1NT18ME057	Joswin Monteiro	P
20	1NT18ME060	Karthik N	P
21	1NT18ME064	Kiran Acharya	P
22	1NT18ME073	Madhu K N	P
23	1NT18ME074	Mahendra S	P
24	1NT18ME077	Manish A Kote	P
25	1NT18ME078	Manjunatha H S	P
26	1NT18ME079	Manoj J	P
27	1NT18ME081	Mayank Kumar Gupta	P
28	1NT18ME083	M B Aditya	P
29	1NT18ME104	Pavan H T	P
30	1NT18ME106	Pavan Kumar K	P
31	1NT18ME108	Prahlad V Deshpande	P
32	1NT18ME109	Pramod A	P
33	1NT18ME110	Prasanna Appasaheb Modi	P
34	1NT18ME112	Pratham Naik K N	P
35	1NT18ME113	Prathap S	P
36	1NT18ME114	Prathvi Raj	P
37	1NT18ME117	Rahul A R	P
38	1NT18ME119	Rajeev Ranjan	P
39	1NT18ME134	Sachin M Revankar	P
40	1NT18ME135	Sadat Ahmed Shakeeb	A
41	1NT18ME136	Sai Kameshwar Sriadibhatla	P
42	1NT18ME137	Sandeep Deshpande	P
43	1NT18ME138	Sanjay M	P

44	1NT18ME139	Sarvajith J H	P
45	1NT18ME140	Shaaf Ahmad Zubairi	P
46	1NT18ME141	Shashank Amaravathi	P
47	1NT18ME142	Shashank Patil	P
48	1NT18ME170	Vikash Jha	P
49	1NT18ME172	Vishal Thapa	P
50	1NT18ME177	Abishek Dhungana	A
51	1NT18ME178	Prabin Dahal	P
52	1NT19ME400	A Sanjay Kumar	P
53	1NT19ME401	Babu Bammu Jangle	P
54	1NT19ME402	Darshan B P	P
55	1NT19ME404	Dhanush R	P
56	1NT19ME408	Mahesha S	P
57	1NT19ME413	Naveen Sc	P
58	1NT19ME415	Praveena B L	P
59	1NT19ME417	Sachin D R	P
60	1NT19ME418	Shashanka H M	P
61	1NT19ME423	Vignesha R	P

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Programmable Logic Controller operations & Applications

Name of the Speaker : Santosh M.S

*If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.*

➤ Please '√' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?		✓		
2.	How relevant was the content discussed by the speaker?		✓		
3.	Are you satisfied with the time and venue?		✓		
4.	How much interesting this session was for you?			✓	
5.	How was your preparation about the topic before the guest lecture?			✓	
6.	Did the lecture cover what you were expecting?			✓	
7.	What is your opinion about the speaker?		✓		
8.	How much this session was useful from the knowledge and information point of view	✓			
9.	Overall effectiveness of the lecture		✓		

Additional comments and suggestions for future

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Date: 03/07/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Programmable logic controller operations & Application

Name of the Speaker : Santosh M.S

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S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?		✓		
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3.	Are you satisfied with the time and venue?	✓			
4.	How much interesting this session was for you?		✓		
5.	How was your preparation about the topic before the guest lecture?	✓			
6.	Did the lecture cover what you were expecting?			✓	
7.	What is your opinion about the speaker?		✓		
8.	How much this session was useful from the knowledge and information point of view	✓			
9.	Overall effectiveness of the lecture		✓	✓	

Additional comments and suggestions for future

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Date: 3.7.2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Programmable Logic Controller Operation & Application

Name of the Speaker : Santosh MS

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

➤ Please '✓' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?		✓		
2.	How relevant was the content discussed by the speaker?		✓		
3.	Are you satisfied with the time and venue?		✓		
4.	How much interesting this session was for you?		✓		
5.	How was your preparation about the topic before the guest lecture?		✓		
6.	Did the lecture cover what you were expecting?		✓		
7.	What is your opinion about the speaker?		✓		
8.	How much this session was useful from the knowledge and information point of view		✓		
9.	Overall effectiveness of the lecture		✓		

Additional comments and suggestions for future

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Date: 03/07/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Programmable Logic Controller operation and Applications

Name of the Speaker : Santhosh M.S

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

➤ Please '✓' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?			✓	
2.	How relevant was the content discussed by the speaker?		✓		
3.	Are you satisfied with the time and venue?			✓	
4.	How much interesting this session was for you?		✓		
5.	How was your preparation about the topic before the guest lecture?			✓	
6.	Did the lecture cover what you were expecting?		✓		
7.	What is your opinion about the speaker?		✓		
8.	How much this session was useful from the knowledge and information point of view				✓
9.	Overall effectiveness of the lecture				✓

Additional comments and suggestions for future

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Date: 3/07/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Programmable logic controller operation & Applications

Name of the Speaker : Santosh M.S

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6.	Did the lecture cover what you were expecting?		✓		
7.	What is your opinion about the speaker?			✓	
8.	How much this session was useful from the knowledge and information point of view			✓	
9.	Overall effectiveness of the lecture		✓		

Additional comments and suggestions for future

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Date: 3/7/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : programmable logic ~~conduction~~ control operation & application

Name of the Speaker : Santhosh M.S

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

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2.	How relevant was the content discussed by the speaker?		✓		
3.	Are you satisfied with the time and venue?			✓	
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5.	How was your preparation about the topic before the guest lecture?		✓		
6.	Did the lecture cover what you were expecting?	✓			
7.	What is your opinion about the speaker?			✓	
8.	How much this session was useful from the knowledge and information point of view			✓	
9.	Overall effectiveness of the lecture		✓		

Additional comments and suggestions for future

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Date: 3/07/2021

Thank You



## FEEDBACK FORM FOR GUEST LECTURE

Topic : Programmable logic controller operations & Applications

Name of the Speaker : Santhosh M.S.

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8.	How much this session was useful from the knowledge and information point of view		✓		
9.	Overall effectiveness of the lecture	✓			

Additional comments and suggestions for future

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Date: 8/7/2021

Thank You

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PERSPECTIVE**

**Topic: EMBEDDED Systems and Its Application**



**Speaker:**  
**Habib Sab**  
**Proprietor**  
**Emergers Technologies**

Webinar Mapping: Applied Mechatronics  
Syllabus topics covered:

**Microprocessors & Microcontrollers**  
**(Unit-5)**



09/07/2021(Friday)&  
10/07/2021(Saturday)



Morning - 11:00 AM -12:30 PM  
Afternoon - 2:30 PM - 4:00 PM



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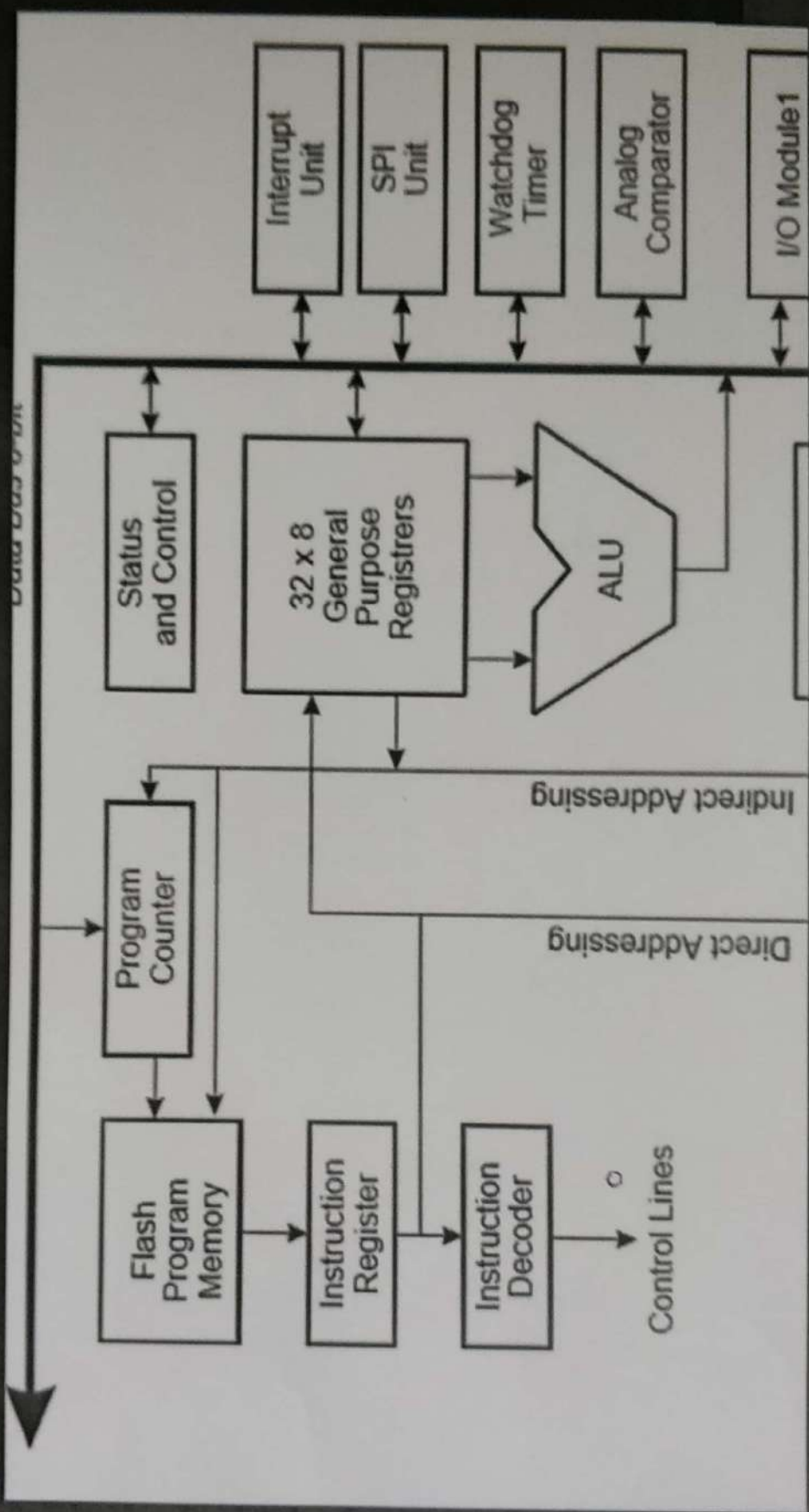


Coordinator : Chetan.S  
For Further Enquiry Contact: +91 9538807642

Website: [www.nmit.ac.in](http://www.nmit.ac.in)

## Content covered:

- Microprocessors Basic Elements of a Microprocessor: CPU, ALU, Memory, I/O Ports, Bus, Read & Write Cycle.
- Overview of Architecture of 8085 Microprocessor, Timing & Control Units.
- Introduction to Single Board Computers (SBC): Overview of Raspberry Pi Board, NVIDIA TEGRA, UDOO, Microprocessors Power Supply, Memory, Ports, GPIOs, Setting up the Raspberry Pi



Here is a list of different Arduino boards available.

**Arduino boards based on ATMEGA328 microcontroller**

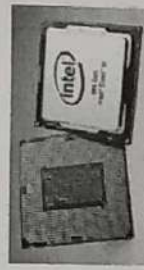
Board Name	Operating Volt	Clock Speed	Digital I/o	Analog Inputs	PWM	UART	Programming Interface
Arduino Uno R3	5V	16MHz	14	6	6	1	USB via ATmega16U2
Arduino Uno R3 SMD	5V	16MHz	14	6	6	1	USB via ATmega16U2
Red Board	5V	16MHz	14	6	6	1	USB via FTDI
Arduino Pro 3.3V/8 MHz	3.3V	8 MHz	14	6	6	1	FTDI- Compatible Header
Arduino Pro 5V/16MHz	5V	16MHz	14	6	6	1	FTDI- Compatible Header
Arduino mini 05	5V	16MHz	14	8	6	1	FTDI- Compatible Header
Arduino Pro mini 3.3V/8mhz	3.3V	8MHz	14	0	6	1	FTDI- Compatible Header
Arduino Pro mini 5V/16mhz	5V	16MHz	14	8	6	1	FTDI- Compatible Header
Arduino Ethernet	5V	16MHz	14	6	6	1	FTDI- Compatible Header
Arduino Pro	3.3V	8MHz	14	8	6	1	FTDI- Compatible Header
LilyPad Arduino 328	3.3V	8MHz	14	6	6	1	FTDI- Compatible Header
LilyPad Arduino simply board	3.3V	8MHz	9	4	5	0	FTDI- Compatible Header

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An Intel P8085AH-2 processor variant with black plastic and silver pins

General Information	
Launched	March 1976
Discontinued	2000 <sup>[d]</sup>
Common manufacturer(s)	*Intel and several others
Performance	
Max. CPU clock rate	3, 5 and 6 MHz
Data width	8 bits
Address width	16 bits
Architecture and classification	
Min. feature size	3 μm
Instruction set	8085
Physical specifications	
Transistors	~6,500
Package(s)	*40-pin DIP
Socket(s)	*DIPag
History	
Predecessor	Intel 8080
Successor	Intel 8086



**CPU Specifications**

- # of Cores 18
- # of Threads 36
- Processor Base Frequency 2.60 GHz
- Max Turbo Frequency 4.20 GHz
- Cache 24.75 MB
- Bus Speed 8 GT/s
- # of QPI Links 0
- Intel® Turbo Boost Max Technology 3.0 Frequency 4.40 GHz
- TDP 165 W
- No. of Transistors: Approx 7 Billion

Sl.No	USN	Name	
1	1NT15ME020	ASM Adnan Kabir Ratul	A
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8	1NT18ME009	Aditya V	P
9	1NT18ME012	Ajay Rao	P
10	1NT18ME019	Amrutha Raj A	P
11	1NT18ME020	Aniket Choudhary	A
12	1NT18ME025	Avanth G Jinkal	P
13	1NT18ME040	Chiranth K N	P
14	1NT18ME044	Dhanush Kumar S	P
15	1NT18ME045	Dinesh Kumar Sahoo	P
16	1NT18ME046	Dishad Kumar B T	P
17	1NT18ME047	G N Nagaharish	P
18	1NT18ME048	Guntupalli Srihari	P
19	1NT18ME052	Hruthik Babu G S	P
20	1NT18ME053	Jai S Naik	P
21	1NT18ME055	Jayanth A C	P
22	1NT18ME058	K Sai Krishna	P
23	1NT18ME063	Kifayath Ulla Shariff	P
24	1NT18ME066	Koushal Satyanarayan Bhutada	P
25	1NT18ME070	Likith S B	P
26	1NT18ME071	Lokavishruth K	P
27	1NT18ME072	Lokeshwar K S	P
28	1NT18ME075	Mahesh Kumar Godara	P
29	1NT18ME095	Nitesh Basavaraj Hallad	P
30	1NT18ME096	Nithin H V	P
31	1NT18ME097	Nithin K C	P
32	1NT18ME099	Nitish S	P
33	1NT18ME100	Nivas M S	P
34	1NT18ME101	Omair Iqbal	P
35	1NT18ME103	Patush T M	P
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39	1NT18ME123	Ravindra Nayak M	P
40	1NT18ME124	Reuben Richardson	P
41	1NT18ME127	Rishi K	P
42	1NT18ME129	Rohit Raj	P
43	1NT18ME131	S Kishor	P

44	1NT18ME132	S N Harshith	P
45	1NT18ME133	S Naga Vamsi Ganesh Manepalli	P
46	1NT18ME153	Sunil Pareek	P
47	1NT18ME155	Suraj K H	P
48	1NT18ME161	Tejas Alva	P
49	1NT18ME163	Uday Kumar B V	P
50	1NT18ME164	V R Prashanth Kumar	P
51	1NT18ME165	Vaishnu Teja S S	P
52	1NT18ME167	Vijaya Guru S P	P
53	1NT18ME168	Vijeeth Vijay Kumar	P
54	1NT18ME169	Vikas Anand	P
55	1NT18ME173	Yashas M	P
56	1NT19ME405	Hari Kumar P M	P
57	1NT19ME410	Manoj Gowda C U	P
58	1NT19ME412	Nanda Mohan Chowdari B R	P
59	1NT19ME414	Prateek Kumbar	P
60	1NT19ME416	Raghavendra V Hegde	P
61	1NT13ME176	Harish C	P

Sl.No	USN	Name	
1	1NT15ME016	Ashik B P	A
2	1NT15ME083	N Vaibhav	A
3	1NT17ME121	Satwick S Shetty	A
4	1NT18ME010	Aditya Vikram	P
5	1NT18ME011	Advaith S Agasthya	P
6	1NT18ME014	Akash Basavaraj Biradar	P
7	1NT18ME015	Akshay Jha	P
8	1NT18ME021	Anilkumar Saidapur	P
9	1NT18ME023	Arjun K L	P
10	1NT18ME024	Aryan S	P
11	1NT18ME029	Bhadresh J Mudakamath	P
12	1NT18ME030	Bhanu A R	P
13	1NT18ME032	Bharath Kumar N	P
14	1NT18ME034	Chandram	P
15	1NT18ME041	Chiranth Raj M R	P
16	1NT18ME049	Hancy Ronaldo Dsouza	P
17	1NT18ME054	Jaideep S	P
18	1NT18ME056	Jayanth D Hombal	P
19	1NT18ME057	Joswin Monteiro	P
20	1NT18ME060	Karthik N	P
21	1NT18ME064	Kiran Acharya	P
22	1NT18ME073	Madhu K N	P
23	1NT18ME074	Mahendra S	P
24	1NT18ME077	Manish A Kote	P
25	1NT18ME078	Manjunatha H S	P
26	1NT18ME079	Manoj J	P
27	1NT18ME081	Mayank Kumar Gupta	P
28	1NT18ME083	M B Aditya	P
29	1NT18ME104	Pavan H T	P
30	1NT18ME106	Pavan Kumar K	P
31	1NT18ME108	Prahlad V Deshpande	P
32	1NT18ME109	Pramod A	P
33	1NT18ME110	Prasanna Appasaheb Modi	P
34	1NT18ME112	Pratham Naik K N	P
35	1NT18ME113	Prathap S	P
36	1NT18ME114	Prathvi Raj	P
37	1NT18ME117	Rahul A R	P
38	1NT18ME119	Rajeev Ranjan	P
39	1NT18ME134	Sachin M Revankar	P
40	1NT18ME135	Sadat Ahmed Shakeeb	P
41	1NT18ME136	Sai Kameshwar Sriadibhatla	P
42	1NT18ME137	Sandeep Deshpande	P
43	1NT18ME138	Sanjay M	P

44	1NT18ME139	Sarvajith J H	P
45	1NT18ME140	Shaaf Ahmad Zubairi	P
46	1NT18ME141	Shashank Amaravathi	P
47	1NT18ME142	Shashank Patil	P
48	1NT18ME170	Vikash Jha	P
49	1NT18ME172	Vishal Thapa	P
50	1NT18ME177	Abishek Dhungana	P
51	1NT18ME178	Prabin Dahal	P
52	1NT19ME400	A Sanjay Kumar	P
53	1NT19ME401	Babu Bammu Jangle	P
54	1NT19ME402	Darshan B P	P
55	1NT19ME404	Dhanush R	P
56	1NT19ME408	Mahesha S	P
57	1NT19ME413	Naveen Sc	P
58	1NT19ME415	Praveena B L	P
59	1NT19ME417	Sachin D R	P
60	1NT19ME418	Shashanka H M	P
61	1NT19ME423	Vignesha R	P

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Embedded Systems and Applications

Name of the Speaker : Habzeb Sab.

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

> Please '√' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1	How was the overall organization of the lecture?	✓			
2	How relevant was the content discussed by the speaker?	✓			
3	Are you satisfied with the time and venue?		✓		
4	How much interesting this session was for you?	✓			
5	How was your preparation about the topic before the guest lecture?		✓		
6	Did the lecture cover what you were expecting?	✓			
7	What is your opinion about the speaker?	✓			
8	How much this session was useful from the knowledge and information point of view	✓			
9	Overall effectiveness of the lecture	✓			

Additional comments and suggestions for future

The session was very informative. The lecturer demonstrated the working of Arduino board which helped us in understanding the topics.

Date: 10/07/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Embedded systems and applications

Name of the Speaker : Nabeek Sab

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

> Please '✓' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1	How was the overall organization of the lecture?	✓			
2	How relevant was the content discussed by the speaker?		✓		
3	Are you satisfied with the time and venue?	✓			
4	How much interesting this session was for you?	✓			
5	How was your preparation about the topic before the guest lecture?	✓			
6	Did the lecture cover what you were expecting?		✓		
7	What is your opinion about the speaker?		✓		
8	How much this session was useful from the knowledge and information point of view	✓			
9	Overall effectiveness of the lecture	✓			

### Additional comments and suggestions for future

It was a good session.

Date: 10/7/21

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Embedded Systems & Application

Name of the Speaker : Habeeb Sab

*If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.*

➤ Please '✓' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?		✓		
2.	How relevant was the content discussed by the speaker?		✓		
3.	Are you satisfied with the time and venue?		✓		
4.	How much interesting this session was for you?		✓		
5.	How was your preparation about the topic before the guest lecture?		✓		
6.	Did the lecture cover what you were expecting?		✓		
7.	What is your opinion about the speaker?		✓		
8.	How much this session was useful from the knowledge and information point of view		✓		
9.	Overall effectiveness of the lecture		✓		

Additional comments and suggestions for future

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Date: 10/7/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Embedded Systems & Applications

Name of the Speaker : Habeel Sab

*If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.*

➤ Please '✓' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?			✓	
2.	How relevant was the content discussed by the speaker?			✓	
3.	Are you satisfied with the time and venue?				✓
4.	How much interesting this session was for you?		✓		
5.	How was your preparation about the topic before the guest lecture?				✓
6.	Did the lecture cover what you were expecting?			✓	
7.	What is your opinion about the speaker?		✓		
8.	How much this session was useful from the knowledge and information point of view		✓		
9.	Overall effectiveness of the lecture	✓			

Additional comments and suggestions for future

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Date: 10/7/2021

Thank You



## FEEDBACK FORM FOR GUEST LECTURE

Topic : Embedded systems And applications

Name of the Speaker : Habib Bab

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

➤ Please '√' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1	How was the overall organization of the lecture?		✓		
2	How relevant was the content discussed by the speaker?			✓	
3	Are you satisfied with the time and venue?		✓	✓	
4	How much interesting this session was for you?			✓	
5	How was your preparation about the topic before the guest lecture?		✓		
6	Did the lecture cover what you were expecting?			✓	
7	What is your opinion about the speaker?		✓		
8	How much this session was useful from the knowledge and information point of view			✓	
9	Overall effectiveness of the lecture		✓		

**Additional comments and suggestions for future**

No Comments

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Date: 10/7/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Embedeled Jzystem & Application.

Name of the Speaker : Habeeb Jab

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

> Please '√' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1	How was the overall organization of the lecture?		✓		
2	How relevant was the content discussed by the speaker?		✓		
3	Are you satisfied with the time and venue?		✓		
4	How much interesting this session was for you?		✓	<del>✓</del>	
5	How was your preparation about the topic before the guest lecture?		✓		
6	Did the lecture cover what you were expecting?		✓		
7	What is your opinion about the speaker?		✓		
8	How much this session was useful from the knowledge and information point of view			✓	
9	Overall effectiveness of the lecture		✓		

**Additional comments and suggestions for future**

No comments.

Date: 10/7/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Embedded System and Application

Name of the Speaker : Habeeb Sab

*If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.*

➤ Please '✓' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?	✓			
2.	How relevant was the content discussed by the speaker?		✓		
3.	Are you satisfied with the time and venue?	✓			
4.	How much interesting this session was for you?	✓			
5.	How was your preparation about the topic before the guest lecture?	✓	✓		
6.	Did the lecture cover what you were expecting?		✓		
7.	What is your opinion about the speaker?	✓			
8.	How much this session was useful from the knowledge and information point of view	✓			
9.	Overall effectiveness of the lecture	✓			

Additional comments and suggestions for future

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Date: 10/7/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Embedded Systems & Application

Name of the Speaker : Habeeb Sab

*If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.*

➤ Please '✓' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?		✓		
2.	How relevant was the content discussed by the speaker?			✓	
3.	Are you satisfied with the time and venue?			✓	
4.	How much interesting this session was for you?		✓		
5.	How was your preparation about the topic before the guest lecture?			✓	
6.	Did the lecture cover what you were expecting?			✓	
7.	What is your opinion about the speaker?		✓		
8.	How much this session was useful from the knowledge and information point of view		✓		
9.	Overall effectiveness of the lecture		✓		

Additional comments and suggestions for future

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Date: 10-7-2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Embedded Systems & Application

Name of the Speaker : Habeeb Sab

*If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.*

➤ Please '√' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1	How was the overall organization of the lecture?	√			
2	How relevant was the content discussed by the speaker?	√			
3	Are you satisfied with the time and venue?	√			
4	How much interesting this session was for you?		√		
5	How was your preparation about the topic before the guest lecture?		√		
6	Did the lecture cover what you were expecting?		√		
7	What is your opinion about the speaker?		√		
8	How much this session was useful from the knowledge and information point of view		√		
9	Overall effectiveness of the lecture	√			

Additional comments and suggestions for future

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Date: 10/7/2021

Thank You

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**SKILL & EMPLOYABILITY  
PERSPECTIVE**

**Topic: Industrial Hydraulics & Pneumatics**



**Speaker:**  
**Santosh M.S**  
Sales – Didactics  
Department  
Hydac India Private Limited

**Webinar Mapping: Applied Mechatronics**  
Syllabus topics covered: Hydraulics & Pneumatics(Unit-3)



12/05/2021 (Wednesday) &  
13/05/2021(Thursday)



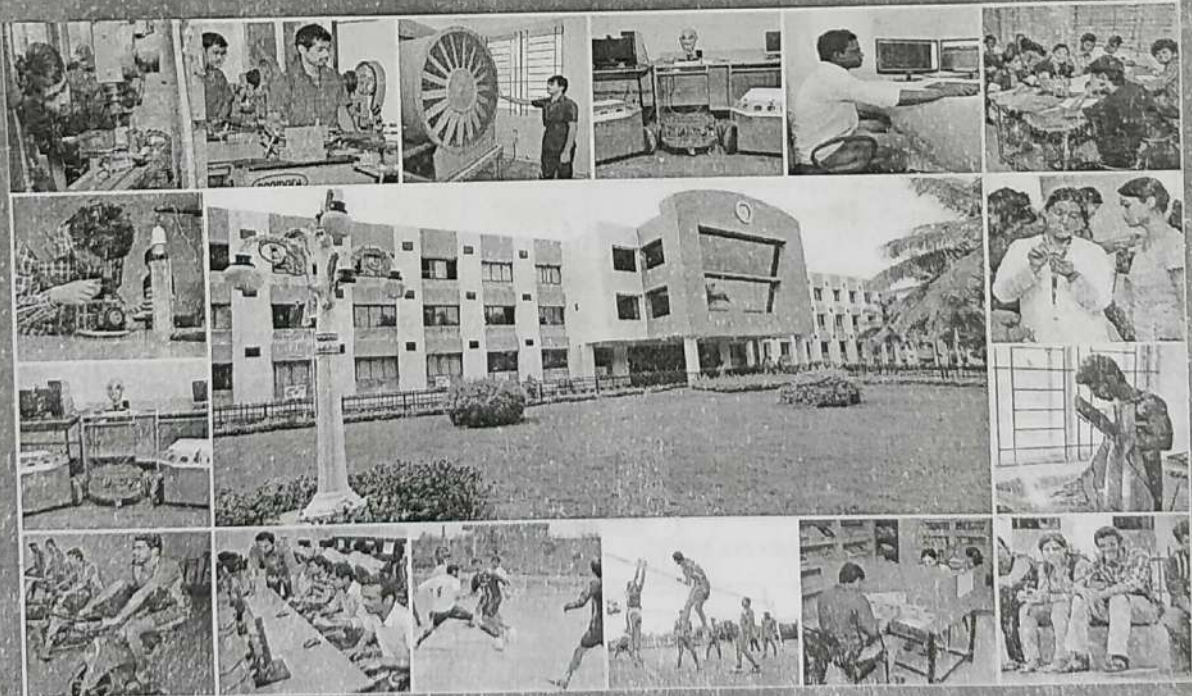
Morning - 11:00 AM -12:30 PM  
Afternoon - 2:30 PM - 4:00 PM



**Speaker:**  
**Naveen Kumar**  
Sales – Didactics  
Department  
Hydac India Private Limited



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Website: [www.inmit.ac.in](http://www.inmit.ac.in)



## PROFILE

---

Name : **Santhosh.M.S**  
Department : **Sales - Didactics**  
Designation : **Senior Manager**

### Introduction

- Working in Hydac India Private Limited since 2019.
- Responsible for setting up CoE @ Technical Institutions
- Development of Training Systems
- Impart training on various fields of Automation Technologies

### Previous work experiences

- M/s. Kirloskar Electric Company, Mysore as Trainee - from 1999 to 2000
- M/s. Temec Automation, Mysore as Application support engineer - from 2001 to 2002
- M/s. Sytech Engineering Pvt. Ltd as Quality Engineer - from 2002 to 2005.
- M/s. Chartered Semiconductors as Semiconductor technician - from 2005 to 2007.
- M/s. Bosch Rexroth India Private Limited as Senior Manager - from 2007 to 2019

### KEY HIGHLIGHTS

- Bosch Rexroth AG - Certified trainer for Continuous Control Hydraulics, Pneumatics, TRONICS, Digital Hydraulics, Mobile Hydraulics and Industry 4.0
- Key personnel for Digital Hydraulics and Proportional Hydraulics in India.

### Contact Details

Contact No. +91-9731322550  
Email: [santhosh.srinivas@hydacindia.com](mailto:santhosh.srinivas@hydacindia.com)

## **PROFILE**

---

Name : Naveen Kumar  
Department : Sales – Didactics  
Designation : Executive Sales

### **Introduction**

- Working in Hydac India Private Limited Since 2021
- Coordinator for setting up CoE @ Technical Institutions
- Providing specific training programs on fields of Hydraulics.
- Development of Training Systems

### **Previous work experience**

- M/s Prefect Hydraulics, Bangalore as Design Engineer from 2018 – 2020

### **Contact Details**

Contact No. +91 9008149282  
Email : naveen.kumar@hydacindia.com



## Content covered:

- Hydraulics & Pneumatics:
- Pascal Law, Continuity equations, Gas Laws,
- Pneumatic System Elements-Cylinders,
- Pump, Control Valves including Servo Valves,
- Compressors, Symbols, Hydraulic System Power pack,
- Control of single and Doubleacting Pneumatic/Hydraulic cylinder, Control of Sequencing circuits.  
Applications of Hydraulics & Pneumatics-Examples

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Clipboard | Paste | Cut | Copy | Format Painter | Review | Slide | Section | Slides

Paragraph | Text Direction | Align Text | Convert to SmartArt

Editing | Find | Replace | Select

Arrange | Quick Styles | Shape Effects

Shape Fill | Shape Outline | Shape Effects

### Graphical Symbols – Flow Control Valve

Supply line, Return line

Throttle valve

Adjustability (of a throttle)

Adjustable throttle valve

**HYDAC ACADEMY**

Navigation icons: +112, VS, BJ, MH, AS, BM, SK, SS, SS, NK

User avatars: Sarthak Kumar, Sarthak M.S., Sarthak M., Sarthak D., Sarthak M., Sarthak M.S., Sarthak M., Sarthak M., Sarthak M.

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### Poppet type – Directional Control Valve

HYDAC ACADEMY

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1	1NT15ME020	ASM Adnan Kabir Ratul	A
2	1NT16ME069	Prakarsh Prasar	A
3	1NT16ME095	Shashank S Kashyap	A
4	1NT16ME177	Suhas V	A
5	1NT17ME036	Bikesh Yadav	P
6	1NT17ME037	Bineel N B	A
7	1NT17ME125	Shekhar B N	P
8	1NT17ME140	Syed Abid	P
9	1NT18ME002	A Sharanya	P
10	1NT18ME013	Akansha Gupta	P
11	1NT18ME016	Alini Christ Paul	P
12	1NT18ME017	Aman Basavaraj Biradar	P
13	1NT18ME018	Aman Kumar	A
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15	1NT18ME035	Chandrashekar L	A
16	1NT18ME036	Chau Ngonseng Chakhap	P
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18	1NT18ME038	Chetan Ranganath	P
19	1NT18ME039	Chethan Kumar K R	P
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21	1NT18ME043	Deekshith V	P
22	1NT18ME050	Harikeerthana N	P
23	1NT18ME102	Pallavi G	P
24	1NT18ME059	Karthik Bhovi N	P
25	1NT18ME061	Karthikei Ram G U	A
26	1NT18ME062	Karunakar	P
27	1NT18ME065	Kishore V B	P
28	1NT18ME067	Krithik R	P
29	1NT18ME069	Likhith Raj D	P
30	1NT18ME082	Mayur U	P
31	1NT18ME085	Mohammad Mushtaq Ali Khan	P
32	1NT18ME086	Mohammed Touqeer A R	P
33	1NT18ME087	Mohan Kumar S	P
34	1NT18ME088	Mujeer Ahmed	P
35	1NT18ME090	N R Prashuth	P
36	1NT18ME091	Neeraj Thondikatil Jothish Kumar	P
37	1NT18ME092	Nikhil Raj M V	P
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44	1NT18ME126	Rishab T	P
45	1NT18ME128	Rohit N	P
46	1NT18ME130	Roshni Rajan Naroor	P
47	1NT18ME143	Shetty Hrithik Vasantha	P
48	1NT18ME145	Srikar I	P
49	1NT18ME148	Sujay V	P
50	1NT18ME151	Sunilkuamr B S	A
51	1NT18ME152	Sunil Kumar K	P
52	1NT18ME154	Suprith G	P
53	1NT18ME159	Tanish Purwar	P
54	1NT18ME162	Tushar Verma	P
55	1NT18ME408	Kanakaraju N	P
56	1NT19ME403	Dhanush C	A
57	1NT19ME406	Huliya D	P
58	1NT19ME407	Jaibheem Hatgundi	P
59	1NT19ME409	Manikanta P	P
60	1NT19ME411	Mumin Malik	P
61	1NT19ME419	Shilpa S Walaki	P
62	1NT19ME420	Sindhu D	P
63	1NT19ME421	Tabasum Banu	P
64	1NT19ME422	Vaibhav C	P

Sl.No	USN	Name	
1	1NT17ME144	Tejas T N	A
2	1NT18ME001	A Aryan	P
3	1NT18ME003	A Somasourya Sarma	P
4	1NT18ME004	Aakash Kumar Patel	P
5	1NT18ME006	Adithya Naik P U	P
6	1NT18ME007	Adithya Sreepathy Ekendra	P
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43	1NT18ME131	S Kishor	P

44	1NT18ME132	S N Harshith	P
45	1NT18ME133	S Naga Vamsi Ganesh Manepalli	P
46	1NT18ME153	Sunil Pareek	P
47	1NT18ME155	Suraj K H	P
48	1NT18ME161	Tejas Alva	A
49	1NT18ME163	Uday Kumar B V	P
50	1NT18ME164	V R Prashanth Kumar	P
51	1NT18ME165	Vaishnu Teja S S	P
52	1NT18ME167	Vijaya Guru S P	P
53	1NT18ME168	Vijeeth Vijay Kumar	P
54	1NT18ME169	Vikas Anand	P
55	1NT18ME173	Yashas M	P
56	1NT19ME405	Hari Kumar P M	P
57	1NT19ME410	Manoj Gowda C U	P
58	1NT19ME412	Nanda Mohan Chowdari B R	P
59	1NT19ME414	Prateek Kumbar	P
60	1NT19ME416	Raghavendra V Hegde	P
61	1NT13ME176	Harish C	P

Sl.No	USN	Name	
1	1NT15ME016	Ashik B P	A
2	1NT15ME083	N Vaibhav	A
3	1NT17ME121	Satwick S Shetty	A
4	1NT18ME010	Aditya Vikram	P
5	1NT18ME011	Advaith S Agasthya	P
6	1NT18ME014	Akash Basavaraj Biradar	P
7	1NT18ME015	Akshay Jha	P
8	1NT18ME021	Anilkumar Saidapur	P
9	1NT18ME023	Arjun K L	P
10	1NT18ME024	Aryan S	P
11	1NT18ME029	Bhadresh J Mudakamath	P
12	1NT18ME030	Bhanu A R	P
13	1NT18ME032	Bharath Kumar N	P
14	1NT18ME034	Chandram	P
15	1NT18ME041	Chiranth Raj M R	P
16	1NT18ME049	Hancy Ronaldo Dsouza	A
17	1NT18ME054	Jaideep S	P
18	1NT18ME056	Jayanth D Hombal	P
19	1NT18ME057	Joswin Monteiro	P
20	1NT18ME060	Karthik N	P
21	1NT18ME064	Kiran Acharya	A
22	1NT18ME073	Madhu K N	P
23	1NT18ME074	Mahendra S	P
24	1NT18ME077	Manish A Kote	P
25	1NT18ME078	Manjunatha H S	P
26	1NT18ME079	Manoj J	P
27	1NT18ME081	Mayank Kumar Gupta	P
28	1NT18ME083	M B Aditya	A
29	1NT18ME104	Pavan H T	P
30	1NT18ME106	Pavan Kumar K	P
31	1NT18ME108	Prahlad V Deshpande	P
32	1NT18ME109	Pramod A	P
33	1NT18ME110	Prasanna Appasaheb Modi	P
34	1NT18ME112	Pratham Naik K N	P
35	1NT18ME113	Prathap S	P
36	1NT18ME114	Prathvi Raj	P
37	1NT18ME117	Rahul A R	P
38	1NT18ME119	Rajeev Ranjan	P
39	1NT18ME134	Sachin M Revankar	P
40	1NT18ME135	Sadat Ahmed Shakeeb	P
41	1NT18ME136	Sai Kameshwar Sriadibhatla	P
42	1NT18ME137	Sandeep Deshpande	P
43	1NT18ME138	Sanjay M	P



44	1NT18ME139	Sarvajith J H	P
45	1NT18ME140	Shaaf Ahmad Zubairi	P
46	1NT18ME141	Shashank Amaravathi	P
47	1NT18ME142	Shashank Patil	A
48	1NT18ME170	Vikash Jha	P
49	1NT18ME172	Vishal Thapa	P
50	1NT18ME177	Abishek Dhungana	P
51	1NT18ME178	Prabin Dahal	P
52	1NT19ME400	A Sanjay Kumar	P
53	1NT19ME401	Babu Bammu Jangle	P
54	1NT19ME402	Darshan B P	P
55	1NT19ME404	Dhanush R	P
56	1NT19ME408	Mahesha S	P
57	1NT19ME413	Naveen Sc	P
58	1NT19ME415	Praveena B L	P
59	1NT19ME417	Sachin D R	P
60	1NT19ME418	Shashanka H M	P
61	1NT19ME423	Vignesha R	P

## FEEDBACK FORM FOR GUEST LECTURE

Topic : INDUSTRIAL HYDRAULICS & PNEUMATICS

Name of the Speaker : SANTOSH M.S

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

➤ Please '√' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?		✓		
2.	How relevant was the content discussed by the speaker?		✓		
3.	Are you satisfied with the time and venue?		✓		
4.	How much interesting this session was for you?	✓			
5.	How was your preparation about the topic before the guest lecture?		✓		
6.	Did the lecture cover what you were expecting?	✓			
7.	What is your opinion about the speaker?	✓			
8.	How much this session was useful from the knowledge and information point of view	✓			
9.	Overall effectiveness of the lecture		✓		

Additional comments and suggestions for future

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Date: 13-05-2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Industrial Hydraulics & Pneumatics

Name of the Speaker : SANTHOSH M.S

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

> Please '√' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1	How was the overall organization of the lecture?		✓		
2	How relevant was the content discussed by the speaker?		✓		
3	Are you satisfied with the time and venue?			✓	
4	How much interesting this session was for you?		✓		
5	How was your preparation about the topic before the guest lecture?			✓	
6	Did the lecture cover what you were expecting?			✓	
7	What is your opinion about the speaker?		✓		
8	How much this session was useful from the knowledge and information point of view		✓		
9	Overall effectiveness of the lecture			✓	

Additional comments and suggestions for future

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Date: 13/05/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Industrial Hydraulics & Pneumatics,

Name of the Speaker : Santosh M.S.

*If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.*

➤ Please '✓' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?		✓		
2.	How relevant was the content discussed by the speaker?		✓		
3.	Are you satisfied with the time and venue?		✓		
4.	How much interesting this session was for you?		✓		
5.	How was your preparation about the topic before the guest lecture?			✓	
6.	Did the lecture cover what you were expecting?		✓		
7.	What is your opinion about the speaker?		✓		
8.	How much this session was useful from the knowledge and information point of view		✓		
9.	Overall effectiveness of the lecture		✓		

Additional comments and suggestions for future

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Date: 13/05/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Industrial Hydraulic & Pneumatics

Name of the Speaker : Santosh M.S

*If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.*

➤ Please '√' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?		√		
2.	How relevant was the content discussed by the speaker?		√		
3.	Are you satisfied with the time and venue?		√		
4.	How much interesting this session was for you?		√		
5.	How was your preparation about the topic before the guest lecture?			√	
6.	Did the lecture cover what you were expecting?		√		
7.	What is your opinion about the speaker?			√	
8.	How much this session was useful from the knowledge and information point of view		√		
9.	Overall effectiveness of the lecture		√		

Additional comments and suggestions for future

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Date: 13/05/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Industrial Hydraulics and Pneumatics

Name of the Speaker : Santosh M.S

*If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.*

➤ Please '✓' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?		✓		
2.	How relevant was the content discussed by the speaker?		✓		
3.	Are you satisfied with the time and venue?		✓		
4.	How much interesting this session was for you?		✓		
5.	How was your preparation about the topic before the guest lecture?		✓		
6.	Did the lecture cover what you were expecting?		✓		
7.	What is your opinion about the speaker?		✓		
8.	How much this session was useful from the knowledge and information point of view		✓		
9.	Overall effectiveness of the lecture		✓		

Additional comments and suggestions for future

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Date: 13/5/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Industrial Hydraulics & Pneumatics

Name of the Speaker : Santosh Me.S

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

➤ Please '✓' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?		✓		
2.	How relevant was the content discussed by the speaker?		✓		
3.	Are you satisfied with the time and venue?		✓		
4.	How much interesting this session was for you?		✓		
5.	How was your preparation about the topic before the guest lecture?		✓		
6.	Did the lecture cover what you were expecting?		✓		
7.	What is your opinion about the speaker?		✓		
8.	How much this session was useful from the knowledge and information point of view		✓		
9.	Overall effectiveness of the lecture		✓		

Additional comments and suggestions for future

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Date: 13/5/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Industrial hydraulic & Pneumatic

Name of the Speaker : Santosh MS

*If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.*

➤ Please '✓' the option you find most suitable.

S.No	Particular	Extremely Good	Good	Quite Good	Poor
1.	How was the overall organization of the lecture?	✓			
2.	How relevant was the content discussed by the speaker?	✓			
3.	Are you satisfied with the time and venue?	✓			
4.	How much interesting this session was for you?	✓			
5.	How was your preparation about the topic before the guest lecture?	✓			
6.	Did the lecture cover what you were expecting?	✓			
7.	What is your opinion about the speaker?	✓			
8.	How much this session was useful from the knowledge and information point of view	✓			
9.	Overall effectiveness of the lecture	✓			

Additional comments and suggestions for future

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Date: 12/05/2021

Thank You



## FEEDBACK FORM FOR GUEST LECTURE

Topic : Industrial Hydraulics & Pneumatics

Name of the Speaker : Santosh M.S

*If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.*

➤ Please '✓' the option you find most suitable.

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3	Are you satisfied with the time and venue?		✓		
4	How much interesting this session was for you?		✓		
5	How was your preparation about the topic before the guest lecture?		✓		
6	Did the lecture cover what you were expecting?	✓			
7	What is your opinion about the speaker?	✓			
8	How much this session was useful from the knowledge and information point of view		✓		
9	Overall effectiveness of the lecture		✓		

Additional comments and suggestions for future

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Date: 13/5/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Industrial Hydraulics & Pneumatics

Name of the Speaker : Santosh M.S.

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

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3.	Are you satisfied with the time and venue?	✓			
4.	How much interesting this session was for you?		✓		
5.	How was your preparation about the topic before the guest lecture?	✓			
6.	Did the lecture cover what you were expecting?		✓		
7.	What is your opinion about the speaker?	✓			
8.	How much this session was useful from the knowledge and information point of view		✓		
9.	Overall effectiveness of the lecture	✓			

Additional comments and suggestions for future

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Date: 13/5/2021

Thank You

## FEEDBACK FORM FOR GUEST LECTURE

Topic : Industrial Hydraulics & Pneumatics

Name of the Speaker : Santosh M.S

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➤ Please '✓' the option you find most suitable.

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1.	How was the overall organization of the lecture?		✓		
2.	How relevant was the content discussed by the speaker?		✓		
3.	Are you satisfied with the time and venue?		✓		
4.	How much interesting this session was for you?		✓		
5.	How was your preparation about the topic before the guest lecture?		✓		
6.	Did the lecture cover what you were expecting?		✓		
7.	What is your opinion about the speaker?		✓		
8.	How much this session was useful from the knowledge and information point of view		✓		
9.	Overall effectiveness of the lecture		✓		

Additional comments and suggestions for future

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Date: 13/05/2021

Thank You



# NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

An Autonomous Institution under VTU, A Grade by NAAC, UGC  
Approved by AICTE, Belgaum, Govindapura, Gollahalli, P B No. 6429, Yelahanka, Bangalore – 560064, Karnataka, India,  
Ph:080, 22167800, Fax:22167805, Website:www.nmit.ac.in  
(Civil Engineering UG Program is NBA accredited for 3 Years from 2020)



## Department of Civil Engineering

**Event Type: Webinar**

**Event Title: “Emerging technologies in Built Environment” by RICS**

**Date: 09-06-2021**

**Coordinator’s:**

Prof. Gana G S  
Prof. Mrinal B  
Assistant Professors  
Dept. of Civil Engineering

Dr. Bharathi Ganesh  
Prof. & Head  
Dept of Civil Engg



**NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**

(An Autonomous Institution Under Visvesvaraya Technological University, Belgaum)

YELAHANKA, BANGALORE

Department of Civil Engineering



## **Circular**

**Date: 09 /06/2021**

### **Webinar “Emerging technologies in Built Environment”**

**A Webinar on “Emerging technologies in Built Environment” is scheduled on 09<sup>th</sup> June, 2021, by RICS to 3<sup>rd</sup> year students from 10:30 am to 11.30 am.**

This webinar is been conducted on online mode and the webinar link will be sent a 1 hour prior to the session.

Platform: Cisco Webex

Faculty Co-ordinators:

Mrs. Gana G.S

Ms. Mrinal B

Assistant Professor

Dept. of Civil Engineering

**Dr. Bharathi Ganesh**  
Prof. & Head  
Dept of Civil Engg

Mr. Mihir Murari Ayyanchira is an Assistant Professor in School of Built Environment and Coordinator of placement and internship for MBA CPM program. Prior to taking over the placement and internship, he was the Examination coordinator for RICS SBE and handled additional responsibility of Program Director for MBA CPM during 2017-18. He holds a Master Degree in Construction Management from Swami Vivekanand Subharti University, Meerut and has a total work experience of more than 7 years. He has diverse experience of more than 5 years in residential and infrastructure projects and joined the academics from 2016. He has worked with Indian multi-national companies such as Simplex Infrastructures Ltd. and Tata Projects Ltd. after his post-graduation as planning in-charge and management trainee respectively. Prior to completing the post graduate he has worked with project management consultant and Military Engineering Services contractors as Site engineer and junior engineer. Mihir Ayyanchira was an Affiliate Member of Risk Management Association of India. He was also among the top 5% in India for the course Project Planning and Control, from IIT Madras through NPTEL. Prior joining to RICS School of Built Environment, he was associated with MIT Art, Design and Technology University, PCM Department as an assistant professor. He was the internal member in Board of Studies for MIT College of management. During his tenure in Simplex Infrastructures Ltd. he has guided students from MIT Pune, NICMAR and other colleges during their internships at postgraduate level in the area of planning, quantity survey and billing and construction site management. During his tenure in construction industry he started his career as a junior engineer under a Military Engineering Services' Contractor in Goa, where he was responsible for execution of Navy Single Officer's accommodation and landscape development including infrastructure development for waste water. Simultaneously, he was also responsible for repairing and construction of runways for Navy Fighter Jets in Dabolim Airport. Further to above work, during his role as Site Engineer in Project management consultancy in Pune he successfully completed a fast track project of Club House in Pune which included structural works to finishing work and handover in 3 months. The Club house comprised of two swimming pools, recreational room, gymnasium, indoor game room, filtration tank room for swimming pool and sewage treatment plant with required infrastructure facility and landscape development. While working in Tata Projects Ltd. as a Management Trainee for 08 months, he was involved in Preconstruction stage of project worth 3300 crore rupees in Uttar Pradesh. His activities involved were survey of 330 km railway line with DGPS and Total Station, preparation of baseline in primavera for 3300 crore, Site office development along the 330 km line, supervising pile load tests and preparing draft methodologies in liason with industry experts. During this tenure he also handled contract management, SWOT analysis of Contract, feasibility of more than 12000 Tree Cutting along the project etc. He also worked as Planning In-charge in Simplex Infrastructures Ltd for a Township project in Haryana worth 347 crores which comprised of 08 high rise building with more than 1200 flats, primary and secondary schools, two shopping complex and EWS building. His areas of interest are Construction Materials, New Construction Technology, Construction delay analysis, Risk Management and Sustainable Constructions. He has published an international journal on construction equipment during his masters and represented Shivaji University, Kolhapur for final year project presentation at state level

The speaker spoke about the Increasing urbanization is making huge demands on Indian cities and infrastructure. Addressing the skills challenge and reducing massive demand supply gap (82-86%) of skilled professionals is fundamental for the industry to be able to deliver projects of highest quality, on time and on cost.

Thus one of the key focus areas of RICS is upskilling and it accredits 600 plus built environment

courses of leading schools. Becoming a provider of education was a logical progression to address

the staggering skills shortage the sector is currently encountering.

RICS School of Built Environment, Amity University serves as a world class institution for education, training, research and standards, which is led by the industry, for the industry. The school

acts a preferred choice for education for students and professionals wanting to build careers in real

estate, urban infrastructure and construction. It also promotes Built Environment as a career of choice offering well paid opportunities.

It is supported by more than 200 companies including major Developers, Construction

Companies, Consulting firms, Banks and Private Equity funds. It also has the support of the Ministry of Urban Development, GOI.

The workshop focused on the importance of “Industry based Competency for the Built

Environment sector “with a special focus on the Real Estate & Construction Industry. The premise of the workshop is to equip graduates with necessary skills that aid in a successful career in the Built Environment Sector. It is intended that the workshop is developed in a manner that provides an experiential learning to the students.

## Participants List

SL.NO	USN	STUDENT NAMES
1	1NT16CS043	KAJOL M
2	1NT17CV001	ABHISHEK GOWDA M R
3	1NT17CV003	AKBAR HUSAIN
4	1NT17CV004	AMIT KUMAR
5	1NT17CV005	AMRITA KUMARI
6	1NT17CV007	ANISH CHAULAGAIN
7	1NT17CV008	APOORVA K N
8	1NT17CV011	ASHA
9	1NT17CV012	ASHUTOSH
10	1NT17CV013	ASHWAAVEGHH A GUTTEDAR
11	1NT17CV015	ASWIN A
12	1NT17CV017	BABU M
13	1NT17CV018	BAKESH RAWAT
14	1NT17CV019	BALKARAN SINGH
15	1NT17CV020	BANNENAVAR ASHUTOSH RAJKUMAR
16	1NT17CV021	BISHWOMBHAR PRAKASH PANDIT
17	1NT17CV022	CHANDAN A
18	1NT17CV023	CHEZHAN BC
19	1NT17CV024	CHEZHAN M
20	1NT17CV025	DARSHAN R
21	1NT17CV026	DHWANI SHANTHA KUMAR
22	1NT17CV029	FAISAL RASHID
23	1NT17CV031	J U GHANASHYAM
24	1NT17CV033	GOWTHAM V
25	1NT17CV034	GURUPRASAD REDDY
26	1NT17CV035	HARANI S R
27	1NT17CV036	HASAAN MUZAFAR JAN
28	1NT17CV037	JAIDEV M K
29	1NT17CV038	JAYESH SHRESTHA
30	1NT17CV039	JYOTHIPRAKASH M
31	1NT17CV040	KARTHIK KUMAR
32	1NT17CV041	KARTHIK SIMHA K
33	1NT17CV042	KASTURIDAS RAJARAM ACHARYA
34	1NT17CV043	KIRAN KUMAR N
35	1NT17CV044	KISHAN A
36	1NT17CV045	KURAGAYALA SANDEEP KUMAR
37	1NT17CV047	MAHESH S
38	1NT17CV048	MANJUNATH R V
39	1NT17CV050	MD CHAND
40	1NT17CV051	MEGHANA A
41	1NT17CV052	MOHAMMED IRFAN ALI
42	1NT17CV053	MOHIT P
43	1NT17CV054	MONIKA S



44	1NT17CV055	BHARATHI GANESH
45	1NT17CV056	MUKUNDAREDDYGARI VENKATSAI REDDY
46	1NT17CV057	NASEER AHMAD MIR
47	1NT17CV058	NAVEEN S
48	1NT17ME143	BADMERA TANVEER
49	1NT18CV400	ABISHEK B S
50	1NT18CV403	ANJANA T
51	1NT18CV404	BABY MANJAPPA PUJAR
52	1NT18CV405	BHAGYASHREE
53	1NT18CV406	CHANDAN C S
54	1NT18CV409	DEVARAJU B T
55	1NT18CV412	KARTHIK A
56	1NT18CV413	MALATESH SHIVANAPPAGOL
57	1NT18CV415	MOHAMMAD UMEZ
58	1NT18CV416	NITHIN S
59	1NT18CV418	PRAKASH KURI
60	1NT18CV420	RASHMI RAJASHEKHAR DALAWAI
61	1NT18CV422	SHRINIDHI G GUDI
62	1NT18CV425	V MARUTHI
63	1NT18CV426	VISHWA PRASAD K V
1	1NT16CV106	GOKUL REDDY S
2	1NT16EC110	PRUTHVI H
3	1NT16EC152	SUBHASHCHANDRA BILLAKERUR
4	1NT17CV059	NAWALDEEP PRADHAN
5	1NT17CV062	NITHIN B R
6	1NT17CV063	NITHIN GOWDA B S
7	1NT17CV064	NITISH DWIVEDI
8	1NT17CV065	PAVAN KUMAR S
9	1NT17CV066	POOJA S M
10	1NT17CV068	PRATHAP S
11	1NT17CV069	PREETHAM S L
12	1NT17CV070	RAGHAVENDRA KHOOBANNA LAMANI
13	1NT17CV071	RAGHAVENDRA P C
14	1NT17CV072	RAHUL H N
15	1NT17CV073	RAJ MAHARJAN
16	1NT17CV074	RAJESH K
17	1NT17CV075	RAJU KUMAR KUSHWAHA
18	1NT17CV076	RAMESH G
19	1NT17CV077	RISHAV
20	1NT17CV078	ROHAN D J
21	1NT17CV079	S PRANITHA
22	1NT17CV080	SANDEEP K L
23	1NT17CV081	SANGAMESH
24	1NT17CV082	SAURABH GAUTAM
25	1NT17CV083	SHOBHA N
26	1NT17CV084	SHOBHANA K R

27	1NT17CV085	SHREYAS R
28	1NT17CV086	SIDDARAJU G V
29	1NT17CV087	SOORAJ R
30	1NT17CV088	SOUJANYA M KINNI
31	1NT17CV089	SPANDANA SURESH
32	1NT17CV090	SUDARSH G
33	1NT17CV091	SUDEEP POUDEL
34	1NT17CV092	SUMANTH HEGDE
35	1NT17CV093	SURYANSH VATS
36	1NT17CV094	TEJAS KUMAR H A
37	1NT17CV096	TEJESH K
38	1NT17CV097	TEJESHWAR V
39	1NT17CV098	THIPPESWAMY P V
40	1NT17CV099	THULASIDHARAN PERUMAL
41	1NT17CV101	VAMSHI REDDY V
42	1NT17CV102	VEEKSHITHA V P
43	1NT17CV103	VENKAN GOWDA V
44	1NT17CV104	VENUGOPAL V M
45	1NT17CV105	VIKAS R
46	1NT17CV106	VINAYAK P SHIVANAGUTTI
47	1NT17CV107	VINEETH S
48	1NT17CV108	VINODA D A
49	1NT17CV109	VISHWESHWAR
50	1NT17CV110	VIVEK KUMAR R
51	1NT17CV111	VIVEK R
52	1NT17CV112	YESHWANTH V
53	1NT17ME027	AYUSH MISHRA
54	1NT18CV401	ADITHYA R S
55	1NT18CV402	AKASH
56	1NT18CV407	CHIRANTH L M
57	1NT18CV408	DARSHAN M
58	1NT18CV410	GIREESH R
59	1NT18CV411	HEMA D N
60	1NT18CV414	MANOJ KUMAR R
61	1NT18CV417	PRADEEP A
62	1NT18CV419	PUNDALEEKKA MADAR
63	1NT18CV421	SANGAMESH BASAVARAJ AMBALANUR
64	1NT18CV423	SPOORTHI T
65	1NT18CV424	THRISHALA V



# NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY



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Ph:080, 22167800, Fax:22167805, Website:www.nmit.ac.in  
(Civil Engineering UG Program is NBA accredited for 3 Years from 2020)

## Department of Civil Engineering

**Event Type: Webinar**

**Event Title: “Non-destructive Evaluation, Damage Assessment and Retrofitting of Distressed RC Structures”**

**Date: 07-04-2021**

### **Coordinator’s:**

Dr. Sumith Kumar,  
Mr. Mahesh Kumar C L,  
Assistant Professors  
Dept. of Civil Engineering

Dr. Bharathi Ganesh  
Prof. & Head  
Dept of Civil Engg

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**DEPARTMENT OF CIVIL ENGINEERING-PG**

[UG Civil Engineering Program, NMIT is NBA accredited (Tier I) up to 2023]

**NMIT, Bengaluru**

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**Report on Webinar Conducted on 7<sup>th</sup> April 2021**

**“Non-destructive Evaluation, Damage Assessment and Retrofitting of Distressed RC Structures”**

**Speaker : Dr Guruprasad Y K**

Associate Professor,

MSRIT, Bengaluru.

Under the coordination of Dr. Bharthi Ganesh, Prof. & Head , Dept. of Civil Engineering, NMIT, as convener and Dr. Sumith Kumar, Assistant professor, Dept. of Civil Engineering, NMIT and Mr. Mahesh Kumar C L, Assistant Professor, Dept. of Civil Engineering, NMIT as faculty coordinators, on behalf of Civil Engineering Department has organized a one day WEBINAR on the topic “Non-destructive Evaluation, Damage Assessment and Retrofitting of Distressed RC Structures” on 7<sup>th</sup> April 2021 presented by Dr. Guruprasad Y K, Associate Professor, MSRIT, Benagaluru.

The WEBINAR is conducted in Google Meet. All the students and faculties of the Civil Engineering Department were invited through mail with all the details for joining the WEBINAR. Arrangements were made in CAD LAB, Civil Engineering Department for interested students and faculties to attend the WEBINAR, along with the online participation.

The WEBINAR was intimated to start at 10:00 AM. However, due to some technical issues, the WEBINAR was started with a delay of 15 minutes ie. at 10:15 AM. About 40 members participated in the online WEBINAR. In the beginning of the WEBINAR, Dr. Bharthi Ganesh, Prof. & Head , Dept. of Civil Engineering gave an welcome speech. Meanwhile, Ms. Shwetha K G, Assistant professor, Dept. of Civil Engineering, NMIT, gave a brief introduction of the speaker and handed over to the session to the speaker.

Dr. Guruprasad Y K, started his presentation on the organized topic. He covered most of the important topics that are to be understood by the students as well as the faculties and researchers. In the beginning he gave a brief introduction about the retrofitting and rehabilitation of the structure, how the assessment of the structure will be done. In the later

slides, he explained about the preliminary inspection that has to be carried out on the structure that has to be retrofitted, list of which are as follows.

- History of Structures.
- Collection of all possible data
- Practical restrictions.
- Extent of survey work.
- Time required / time available.
- Safety measures.

He also explained in brief about the information to be collected before the conduction of the retrofitting process and planning of the survey works. There after he explained about the classification of the damage which is based on the level of the damage that has been happened. The brief of which is as below,

1. Degree 0 – No damage.
2. Degree 1 –Minor Exterior repairs are sufficient.
3. Degree 2 – Medium repair works has to be carried.
4. Degree 3 – Principal repairs has to done – like spalling, cracks along rebars.
5. Degree 4 – Major repairs has to carried out or the structural replacement has to be carried out.

In the next slides, the speaker explained about the grade of assessment of building based on the visual inspections and observations. The grades are allotted from A1 to A5 : indicating no damage to severe damage respectively. In the concurrent slides, he also explained about the visual inspections that has to be carried out during retrofitting process. Also explained about what all the records should be noted down for the retrofitting process. And then the assessment of the condition of the building followed by the final report making.

Further, the speaker gave a brief introduction and practical example of how Non-Destructive Evaluation of the building will be carried out using various methods and equipment available in the industry. Also, he explained about the sources of damage and followed by how the assessment of these damage will be done, like – Ultrasonic (pulse velocity) test, rebound hammer test, half cell carbonation, concrete resistivity test, carbonation test, core cutter method, radiographic testing, endoscopic studies, load test.

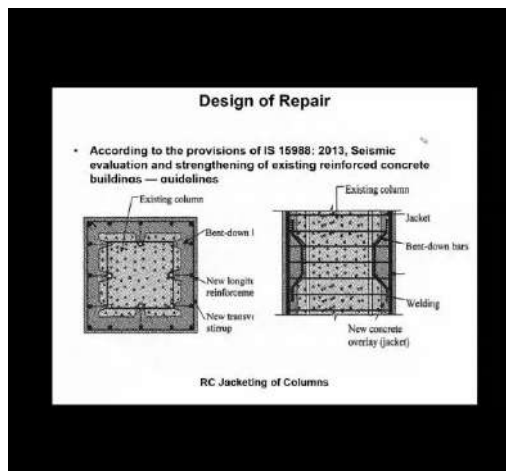
Later, he also explained about the type of cracks and their identification based on the visual inspection and the method of minimizing the crack growth like Stitching method and injection of epoxy into the cracks. During the presentation, he also gave brief details on the materials that are being used for retrofitting process. The list of few are – Epoxy, FRP Sheets, CFRP, GFRP, AFRP, steel plates, concrete or mortar, epoxy to bond old and new concrete. In the meanwhile he mentioned that, retrofitting of structures can only be done if and only if the damage levels are within the repairable limits, else if the structure has to be replaced completely and to be reported as not safe.

In the later slides, the speaker gave a brief detail on how they did complete RC Jacketing model in ABACUS Software and the assessment of bond stress or shear stress developed on the inner surface of the RC Jacketing using FINITE ELEMENT METHOD of analysis.

The session was expected to end at 11:30 AM. But however, the speaker along with the permission of the HOD, Dept. of Civil Engineering, NMIT, extended the time of presentation till 12:30 PM, since he was willing to give the practical example of designing of the repair. Before the end of the session, he explained about the “Design of Repairs” – according to the IS Code provisions : “IS 15988 : 2013 – Seismic evaluation and strengthening of existing reinforced concrete buildings guidelines”. He gave the list of procedure to be followed along with all the formulas, how to apply those along with a practical example of the structure that has been retrofitted.

Finally Mr. Mahesh Kumar C L, Assistant professor, Dept. of Civil Engineering, talked about the overall presentation and thanked the speaker for spending his valuable time in share his thoughts and knowledge with us in form of WEBINAR. Finally Dr. Sumith Kumar, Assistant professor, Dept. of Civil Engineering, NMIT gave vote of thanks.

## Photographs of the WEBINAR





**NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**

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YELAHANKA, BANGALORE

Department of Civil Engineering



## **Circular**

**Date: 16/06/2021**

### **Webinar “Huge opportunities in Industry”**

**A Webinar on “Huge opportunities in Industry” is scheduled on 16<sup>th</sup> June, 2021, by Swifterz to 2<sup>nd</sup> and 3<sup>rd</sup> year students from 10:30 am to 11.30 am.**

This webinar is been conducted on online mode and the webinar link will be sent a 1 hour prior to the session.

Platform: Cisco Webex

Faculty Co-ordinators:

Mrs. Gana G.S

Ms. Mrinal B

Assistant Professor

Dept. of Civil Engineering

Dr. Bharathi Ganesh

Prof. & Head

Dept of Civil Engg







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(Civil Engineering UG Program is NBA accredited for 3 Years from 2020)



# Department of Civil Engineering

**Event Type: Webinar**

**Event Title: “Huge opportunities in Industry” by Swifterz**

**Date: 16-06-2021**

**Coordinator’s:**

Prof. Gana G S  
Prof. Mrinal B  
Assistant Professors  
Dept. of Civil Engineering

Dr. Bharathi Ganesh  
Prof. & Head  
Dept of Civil Engg



Anand T , Experienced CEO and Founder of Swifterz Creative Services. With a demonstrated history of working in design Industry. Skilled in Engineering, Business development, Marketing strategy, Sales operation and sales management. He has over 15 Years of experience In serving technology to manufacturing and AEC industry. Being connected with more than 10000 Contractors and Architects has worked with more than 100 + Architects all over Karnataka and Tamil Nadu.

SWIFTERZ (established in 2012) Which is the Solution Provider for Corporate and the Entire AEC Industry. It is the only organization in the whole globe who is providing the Continuing Engineers Development Program. Our other verticals include: Srikar & Associates which was started in 1985 handled over 500 projects in residential, commercial, hospitality, healthcare and educational sector projects from providing architectural and engineering services in government and private sector. Space Lab Architecture which has been focused in working private sector projects specializes in giving unique architecture design services in the residential, commercial, hospitality and healthcare sector. Larq Design is our customized interior design and build company that focuses on the interior design and execution services with in-house manufacturing facility and has catered to Residential and Hospitality sector and completed close to 800000 lakh sq ft of projects in total

The webinar was addressed to 2<sup>nd</sup> and 3<sup>rd</sup> year students. The speaker spoke about the importance of Modeling 3D buildings, API solutions, Staffing Solutions, MEP Services, Institutional Services, Architectural Design And Rendering Services, Interior Design and Build.

The basic concepts of BIM and projects are explained the importance of projects in Hospitality & Commercial , Health Care , Urban Planning , Mixed Use Development ,Housing & Township , Educational Institutions , Commercial , Interiors.

## Participants List

SL.NO	USN	STUDENT NAMES	SECTION
1	1NT17CV006	ANIRUDHA V S	A
2	1NT17CV009	ARJUN M GOWDA	A
3	1NT17CV060	NIKHIL HEGDE	A
4	1NT18CV001	AHMED SANOVER	A
5	1NT18CV002	AKSHATHA T M	A
6	1NT18CV003	AKSHAY GANIGER	A
7	1NT18CV004	AKSHAY TIWARI	A
8	1NT18CV005	AKSHAYA B M	A
9	1NT18CV006	ANIKET JHA	A
10	1NT18CV007	ANIL KUMAR	A
11	1NT18CV008	ANIRUDH RAMESH	A
12	1NT18CV009	ANJALI	A
13	1NT18CV010	ANJANEYA M J	A
14	1NT18CV011	ANKITH B C	A
15	1NT18CV012	ANUP V	A
16	1NT18CV013	APOORVA CHALLAMARAD	A
17	1NT18CV014	ARCHANA HEGGE	A
18	1NT18CV016	AVINASHREDDY	A
19	1NT18CV018	B S VAIBHAVI	A
20	1NT18CV019	BALARAJA S	A
21	1NT18CV020	BALING RATAN	A
22	1NT18CV021	BHOOMIKA S	A
23	1NT18CV022	CHANDAN B	A
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56	23155	MANASA A	A
57	23270	SRINATH G S	A
58	23276	MANOHAR Y S	A
59	23284	BABU K R	A
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60	1NT17CV014	ASHWIN M	B
61	1NT17CV030	GAGANA C	B
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63	1NT18CV058	PAVAN P	B
64	1NT18CV059	POOJITHA V	B
65	1NT18CV060	PRAJWAL NAYAK	B
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68	1NT18CV064	RAGHU H V	B
69	1NT18CV065	RAHUL B M	B
70	1NT18CV066	RAKSHITHA C V	B
71	1NT18CV067	RANGAPPA S KARADIGUDDA	B
72	1NT18CV068	RELVIN NORONHA	B
73	1NT18CV069	REVANTH M	B
74	1NT18CV071	RUTHIK S	B
75	1NT18CV072	SAINATH YAKATHPURE	B
76	1NT18CV073	SAMHITH S	B
77	1NT18CV074	SANDIP SINGH	B
78	1NT18CV075	SANTOSH KARAJAGI	B
79	1NT18CV076	SHARATH R	B
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114	1NT18CV112	SHUBHAM MANDAL	B
115	1NT18CV113	N SHWETHA	B
116	1NT18ME076	MANIKANTA M	B
117	23153	DINESH D DHOTRE	B
118	23154	MALAPPA PUJARI	B
119	23170	PAVAN JADHAV	B
120	23184	G NANDAKISHORE REDDY	B
121	23224	PALKURTI SUNIL	B
122	23304	PRAJWAL RAMESH GOWDA	B
123	23320	SURESH L	B



**NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**

(An Autonomous Institution Under Visvesvaraya Technological University, Belgaum)

YELAHANKA, BANGALORE

Department of Civil Engineering



## **Circular**

**Date: 11 /05/2021**

### **Training “Gate Coaching”**

**The “Gate Coaching” is scheduled from 11-05-2021 to 14-05-2021 by ACE Academy, Bangalore to 3<sup>rd</sup> year students from 10:30 am to 1.30 pm on all the days.**

Faculty Co-ordinators:

Mrs. Gana G.S

Ms. Mrinal B

Assistant Professor

Dept. of Civil Engineering

**Dr. Bharathi Ganesh**

**Prof. & Head**

**Dept of Civil Engg**





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## Department of Civil Engineering

**Event Type: Webinar**

**Event Title: “Gate Coaching” by ACE Academy**

**Date: 11-05-2021 to 14-05-2021**

**Coordinator’s:**

Prof. Gana G S  
Prof. Mrinal B  
Assistant Professors  
Dept. of Civil Engineering

Dr. Bharathi Ganesh  
Prof. & Head  
Dept of Civil Engg

Mr. KAILAS , the trainer from ACE Academy, Bangalore has done

is Post Graduation in Civil Engineering from SKSJTI College Bangalore. He has Qualified GATE twice .

Kailash Sir has 9+ years experience of working in Education industry & had working experience in Design & Architect Department at ACC Corp Limited.

He is a Subject Matter Expert of the subjects like Environmental, Geotechnical Engineering, Hydrology, Irrigation etc. in GATE/ESE., with Planning, development and review of content for new products and addition of new subjects for existing products. N-number of GATE / ESE toppers acknowledges his guidance for their brilliant results.

The trainer trained the Pre final year students with fundamentals of subjects and how to solve the questions in quick time which was helpful for students in performance in Gate exam.

The training was conducted for four days which covered major syllabus for the gate exam.

## Participants List

SL.NO	USN	STUDENT NAMES	
1	1NT17CV006	ANIRUDHA V S	
2	1NT17CV009	ARJUN M GOWDA	
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## Department of Civil Engineering

**Event Type: Seminar**

**Event Title: ““Perception of Institutions – An Industry Perspective”**

**Date: 12-02-2021**

### **Coordinator’s:**

Mrs. Mrinal B  
Assistant Professors  
Dept. of Civil Engineering

Dr. Bharathi Ganesh  
Prof. & Head  
Dept of Civil Engg

# INVITATION

**DEPARTMENT OF CIVIL ENGINEERING**  
(UG Civil Engineering Program is NBA Accredited (Tier 1) up to 2023)  
**INVITES ALL TO A PRESENTATION**

**ON**

**“Perception of Institutions – An Industry Perspective”**

**Time & DATE: 10:30 AM – 11:30 AM, 12<sup>th</sup> February, 2021**

**Venue – New Seminar Hall**

**All are cordially invited**

## Program Schedule

**Welcome Address**

**Dr. Bharathi Ganesh**

Prof & Head, Dept. of Civil Engineering,  
NMIT, Bengaluru

**Introduction of Speaker**

**Ms. Mrinal Bandari,**

Asst Professor, Dept. of Civil Engineering

**Eminent Speaker & Chief Guest**



**Mr. Madhukar B.A**

Professional Engineer  
Lean Six Sigma – Green Belt  
MD & CEO  
Potential Project Managers Pvt. Ltd.  
Bangalore

**Guests of Honour**

**Dr. H.C Nagaraj**

Principal, NMIT, Bengaluru

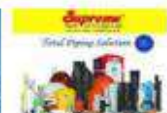
**Dr. V Sridhara**

Dean Academic, NMIT, Bengaluru

**Mr. Rohit Punja**

Administrator, NET

## SUPPORTING ORGANIZATIONS



Madhukar B.A is a graduate Civil Engineer from Bangalore University with more than 30 years of experience working on all types of construction projects in India & abroad. His experience includes high-rise buildings, tunnels & underground Mass Rapid Transit (MRT) stations, expressways, canals & irrigation infrastructure, underground services infrastructure, mega malls, convention centres, industries, office & commercial spaces and world class airports. He has worked in Singapore for 12 years and is currently Managing Director & CEO of Potential Project Managers Pvt Ltd., one of India's leading consulting firms in the field of construction project management ([www.potentialpmc.com](http://www.potentialpmc.com)). He is also Founder-Director of Cleantech Emersol Private Limited ([www.emersoltech.com](http://www.emersoltech.com)), providing quality acceptance testing, engineering services and use of emerging technologies like Internet of Things (IoT), Electric Mobility, Smart Technologies and Digital Transformation Services to Construction & other industries. Close professional interactions with hundreds of companies in construction sector during his career has given him unique insights from a vantage point. He is associated with following professional bodies / NGOs: Ø Past Hon.Chairman of INSTRUCT (for 2012-17) & Emeritus Chairman Ø Member, Governing Council, Construction Industry Development Council, CIDC for 2015-17. Ø Co-founder of Indian Smart-City Development Organisation (ISDO) a consortium of experts of construction industry passionate about improving quality of life in cities in India through intervention in town planning & infrastructure. Ø Member, Association of Consulting Engineers, India (ACCE-I) Ø Member, Indian Concrete Institute (ICI) Ø Member & Hon. Communications Director, Structural Engineers World Congress (SEWC), India. Ø Hon. Chairman, Organising Committee, International Conference on Tunnelling & Underground Structures, July 2021, Bangalore, India Ø Member, Task Force on Enhancing Competitiveness as part of Invest India, FKCCI Ø Member, Business Network International (BNI) Additional Qualifications: Ø Construction Management – Profiscience, Indian Institute of Science, Bangalore Ø Executive General Management Programme (EGMP), IIM-Bangalore Ø Lead Auditor, ISO 9001, 14001 & 18001 Ø Green Belt, Lean Six Sigma (LSS) Ø Post Graduate Diploma in Quantity Surveying and Contract Administration from Ngee Ann Polytechnic, Singapore. Ø Currently Pursuing Master of Business Law (MBL) from National Law School of India University (NLSIU), Bangalore Madhukar is a conference speaker & consultant on subjects of varied interests like project management, EHS management, quality audits, training, student mentoring, technology management, digital transformation & software development as well as business management for construction industry besides being a published author of articles in trade magazines & journals. He participates in webinars as speaker, panellist & moderator on matters of interest to the construction industry. An avid blogger on subjects of his interest, he is an evangelist for good construction practices and a strong proponent of holistic approach to project management school of thought

Mr. Madhukar spoke briefly about the industry and academic aspects. He spoke about the AGILE Approach the 5 step process for improvement in the perception of institutions and how to achieve it by understanding the Industry and societal requirements & industrial limitation or boundary conditions.

How to set up an education board that syncs with management direction compromise a mix of academic.

Sir also spoke about Disruptions in industry attachment and in an internship, the attributes that are essential for academic rank increase.

Strategic position for changing industry perception.

With 30+ years of national and international experience in managing over 400 construction projects involving thousands of construction contracts with privileged collaboration opportunities.



## Participants List

<b>Sl No</b>	<b>Name of the Faculty</b>
1	Dr. Bhartahi Ganesh
2	Mrs Prathima G
3	Mr. Muralidhar H
4	Dr. Pranesh
5	Mr.Umashankar Patil G H
6	Mrs. Shwetha.K.G
7	Mr.Shreyas.A.V
8	Mrs.Shruthi.B.S
9	Mr. Mahesh Kumar C L
10	Mr. Vishwachethan S G
11	Mr. Manjunath L
12	Mrs. Bharti Prasad
13	Mrs.Sushmitha S
14	Mrs.Mrinal
15	Mrs.Nanditha.V.K
16	Mrs.Moulya.H.V
17	Mrs.Gana.G.S
18	Dr.Krishna Murthy
19	Mr.Sumith
20	Dr.Raghav
21	



## NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

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Ph:080, 22167800, Fax:22167805, Website:www.nmit.ac.in  
(Civil Engineering UG Program is NBA accredited for 3 Years from 2020)



## Department of Civil Engineering

**Event Type: Seminar**

**Event Title: “e-Course on Vulnerability Atlas of India”**

**Date: 02-12-2020**

### **Coordinator’s:**

Dr.Jairaj  
Mrs.Gana G S  
Assistant Professors  
Dept. of Civil Engineering

Dr. Bharathi Ganesh  
Prof. & Head  
Dept of Civil Engg



# NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

An Autonomous Institution under VTU, A Grade by NAAC, UGC



128th Rank-NIRF

NAAC – A+ Grade

## Department of Civil Engineering

*CIVIL ENGINEERING PROGRAM- NMIT IS NBA ACCREDITED UNDER TIER - I UPTO 2023*



## INVITATION

*Webinar on*

“e-Course on Vulnerability Atlas of India”

*By*

Dr. Shailesh Kr. Agrawal, ED, BMTPC

[Building Materials and Technology Promotion Council]


Delhi

Date & Time

02-12-2020, 11:00am -12 noon

All are cordially invited

Joining Link: [meet.google.com/tow-jxsm-zys](https://meet.google.com/tow-jxsm-zys)

<b>Name</b>	<b>Dr. Shailesh Kr. Agrawal</b>	
<b>Date of Birth</b>	Nov. 6, 1965; Moradabad (UP)	
<b>Educational Qualification</b>	Ph.D. (Earthquake Engg.), 2001 (IIT Roorkee)	
	Master of Science (S&T), 1990 (BITS Pilani) M.Tech. (Structural Engg.)- Topper of the Group, 1988 (IISc Bangalore) B.Tech.(Civil Engg.) - Silver Medalist, 1986 (GB Pant University of Agriculture & Technology, Pantnagar)	
<b>Place of work</b>	Building Materials & Technology Promotion Council(BMTPC), New Delhi ( <i>an apex inter-ministerial organisation under the aegis of Ministry of Housing &amp; Urban Affairs, Govt. of India</i> ) w.e.f. 17 <sup>th</sup> January 2008.	
	Central Building Research Institute, Roorkee ( <i>a constituent establishment of CSIR and a premier research Institute involved in R &amp; D in the area of Building Science &amp; Technology</i> ) from 8 <sup>th</sup> June 1988 – 16 <sup>th</sup> January 2008.	
<b>Present Designation</b>	<b>Executive Director</b> of BMTPC	

### Felicitations

- Felicitated by The Institution of Engineers (India), Roorkee Local Center for outstanding services to nation on 25<sup>th</sup> day of April 2008.
- Felicitated by Centre of Excellence in Disaster Mitigation and Management, IIT, Roorkee for significant contributions in Disaster Mitigation & Preparedness on 19<sup>th</sup> Day of March 2010.
- Felicitated by The Institution of Engineers (India) as **Eminent Engineering Personality** in recognition of his services to the society in the field of infrastructure construction related to Civil Engineering Society on 12<sup>th</sup> October 2012.
- Felicitated as **Outstanding Public Officer** in the 8th CIDC Vishwakarma Awards 2016 by Construction Industry Development Council on 7th March, 2016.

### Professional Experience

- ➔ As Executive Director of BMTPC since 2008, working towards the mandate of *Affordable Housing for All* through Pradhan Mantri Awas Yojna (PMAY)-Urban by promoting & transferring emerging housing technologies for faster & sustainable development at the grass root level for the common people of India.
- ➔ The current areas of work are (a) alternate building materials & construction technologies, Disaster Mitigation & Management, Skill development & Capacity Building and Project Management & Consultancy (b) Transplanting best construction systems from the globe for faster delivery of quality, sustainable & affordable houses across India (c) Vulnerability Atlas of India

- ➔ Prior to this assignment, devoted 20 years to provide S&T backup in the area of building science & technology in the capacity of scientist at CSIR-CBRI with special emphasis on *earthquake engineering*, *structural dynamics*, *distressed structures*, *repair & rehabilitation*, *computer aided structural analysis & design* through continued R&D with quality objectives in applied research, societal based R&D programmes, resource generation, and publications
- ➔ Published around 100 research papers in journals, conferences, five books and a few dissemination & training CDs.
- ➔ Avid speaker in the area of alternate technologies & disaster resistant construction
- ➔ Widely travelled in India and abroad for various national and international missions

### **Current Assignments**

- 
- ➔ Running Technology Submission of PMAY (Urban) scheme under MoHUPA for *Sustainable Technological Solutions for Faster & Cost Effective Construction of Houses suiting to Geo-Climatic and Hazard Conditions of the Country*
  - ➔ Identify, evaluate, certify and adaptation of new emerging technologies for facilitating their speedy introduction in the construction sector for mass housing
  - ➔ Catalysing the market for affordable housing through online courses & capacity building, handholding, exhibitions, awareness programmes.
  - ➔ Acting as a national resource center for capacity building of ULBs /states in EQ resistant construction, good construction practices & innovative construction systems
  - ➔ (i) Vulnerability Atlas of India (ii) Earthquake Hazard Atlas of India for NDMA
  - ➔ Global Housing Technology Challenge (GHTC)-India for (a) Empanelling appropriate established technologies from across the globe, and inducting them in the Indian market through lighthouse projects & (b) Supporting domestic technology developers by providing incubation, acceleration, and market development assistance

The speaker spoke about the importance of the course which was an eye opener for students especially the course content which had the updates that is required for the present students career.

It was really a pleasant surprise to have Dr.Shailesh Agrawal himself as an Expert Speaker for the presentation on proposed e-Course on Vulnerability Atlas of India. It was an excellent session

## Participants List

SL.NO	USN	STUDENT NAMES	
1	1NT17CV006	ANIRUDHA V S	
2	1NT17CV009	ARJUN M GOWDA	
3	1NT17CV060	NIKHIL HEGDE	
4	1NT18CV001	AHMED SANOVER	
5	1NT18CV002	AKSHATHA T M	
6	1NT18CV003	AKSHAY GANIGER	
7	1NT18CV004	AKSHAY TIWARI	
8	1NT18CV005	AKSHAYA B M	
9	1NT18CV006	ANIKET JHA	
10	1NT18CV007	ANIL KUMAR	
11	1NT18CV008	ANIRUDH RAMESH	
12	1NT18CV009	ANJALI	
13	1NT18CV010	ANJANEYA M J	
14	1NT18CV011	ANKITH B C	
15	1NT18CV012	ANUP V	
16	1NT18CV013	APOORVA CHALLAMARAD	
17	1NT18CV014	ARCHANA HEGGE	
18	1NT18CV016	AVINASHREDDY	
19	1NT18CV018	B S VAIBHAVI	
20	1NT18CV019	BALARAJA S	
21	1NT18CV020	BALING RATAN	
22	1NT18CV021	BHOOMIKA S	
23	1NT18CV022	CHANDAN B	
24	1NT18CV023	CHARITHA N	
25	1NT18CV024	CHETHAN C	
26	1NT18CV025	CHIDANDAGOWDA N M	
27	1NT18CV027	DARSHANGOWDA M L	
28	1NT18CV028	DHANUSH B S	
29	1NT18CV030	GULAPALEM BADRINATH NAIDU	
30	1NT18CV031	HRUTHVIK S	
31	1NT18CV032	INDU DAYANAND	
32	1NT18CV033	JITHESH K	
33	1NT18CV034	KIRAN S	
34	1NT18CV035	KULAGI AKSHAY KUMAR	
35	1NT18CV036	LAKSHMIPRASAD D S	
36	1NT18CV037	MADHU M	
37	1NT18CV038	MAHABOOB PATEL	
38	1NT18CV039	MALLESH	
39	1NT18CV040	MANOJ V	
40	1NT18CV041	MANOJ V WALMIKI	
41	1NT18CV042	MOHAMMADRIYAZ	
42	1NT18CV043	MOHAMMED NOUMANULLA	
43	1NT18CV044	MOHAMMED SAAD SHAFIQ	

		HOSUR	
44	1NT18CV045	MOHAN KUMAR YADAV L	
45	1NT18CV046	MONIKA B R	
46	1NT18CV047	MOPURU MUNI KUMAR REDDY	
47	1NT18CV048	MOWLYA L	
48	1NT18CV049	MRITUNJAY KUMAR	
49	1NT18CV050	MRITUNJAY KUMAR SINHA	
50	1NT18CV051	NANDITHA E NAIK	
51	1NT18CV053	NISCHITHA B H	
52	1NT18CV054	OMKAR D VERNEKAR	
53	1NT18CV055	PADMAJARANI A V	
54	23132	RACHANA S P	
55	23135	ASMIL AAFEIR Z	
56	23155	MANASA A	
57	23270	SRINATH G S	
58	23276	MANOHAR Y S	
59	23284	BABU K R	
1	1NT16CV025	GURUPRASAD B S	
2	1NT17CV014	ASHWIN M	
3	1NT17CV030	GAGANA C	
4	1NT18CV057	PAVAN KUMAR J	
5	1NT18CV058	PAVAN P	
6	1NT18CV059	POOJITHA V	
7	1NT18CV060	PRAJWAL NAYAK	
8	1NT18CV062	PRANAMSHREE H S	
9	1NT18CV063	PRUTHVI M	
10	1NT18CV064	RAGHU H V	
11	1NT18CV065	RAHUL B M	
12	1NT18CV066	RAKSHITHA C V	
13	1NT18CV067	RANGAPPA S KARADIGUDDA	
14	1NT18CV068	RELVIN NORONHA	
15	1NT18CV069	REVANTH M	
16	1NT18CV071	RUTHIK S	
17	1NT18CV072	SAINATH YAKATHPURE	
18	1NT18CV073	SAMHITH S	
19	1NT18CV074	SANDIP SINGH	
20	1NT18CV075	SANTOSH KARAJAGI	
21	1NT18CV076	SHARATH R	
22	1NT18CV077	SHASHANK C R	
23	1NT18CV078	SHASHIBHOOSHAN SOPPIMATH	
24	1NT18CV079	SHIVSAGAR P	
25	1NT18CV080	SHREYAS M S	
26	1NT18CV081	SPANDANA M	
27	1NT18CV082	SRI VAARI PRASAD B M	
28	1NT18CV083	SRUJANA K N	
29	1NT18CV084	SWATI KULKARNI	

30	1NT18CV085	SYED ARFATH ALI
31	1NT18CV086	VARCHAS G
32	1NT18CV087	VARUN A BANDAKLA
33	1NT18CV088	VEDASHREE G L
34	1NT18CV089	VIRAT BASAVARAJ KAGALGOMB
35	1NT18CV090	VISHNU PRIYA V
36	1NT18CV092	YASHASWINI D
37	1NT18CV093	YASHIKA T
38	1NT18CV094	YASHWANTH G
39	1NT18CV095	YUKTA KYATANNAVAR
40	1NT18CV096	AASHMA UPRETI
41	1NT18CV097	ABISHEK RAWAL
42	1NT18CV098	AKEEL RASHID
43	1NT18CV099	AMIT KUMAR SAH
44	1NT18CV100	AYUSH DAHAL
45	1NT18CV101	HARSHITH LAVANYA KUMAR
46	1NT18CV102	HITANSHI GUPTA
47	1NT18CV103	JIDAN MAHARA
48	1NT18CV104	KALYAN SINGH KUSHWAHA
49	1NT18CV105	KUSHAL TAMANG
50	1NT18CV106	MAHENDRA SINGH BISTA
51	1NT18CV107	MEHRAJ UD DIN YATOO
52	1NT18CV108	MICHANA THEENG LAMA
53	1NT18CV109	MOHD ALI
54	1NT18CV110	NIKUNJ KUMAR TODI
55	1NT18CV111	RITESH YADAV
56	1NT18CV112	SHUBHAM MANDAL
57	1NT18CV113	N SHWETHA
58	1NT18ME076	MANIKANTA M
59	23153	DINESH D DHOTRE
60	23154	MALAPPA PUJARI
61	23170	PAVAN JADHAV
62	23184	G NANDAKISHORE REDDY
63	23224	PALKURTI SUNIL
64	23304	PRAJWAL RAMESH GOWDA
65	23320	SURESH L





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## Department of Civil Engineering

**Event Type: Hands on Training**

**Event Title: “Preparing Technical Document using Latex”**

**Date: 03-12-2020 to 08-12-2020**

### **Coordinator’s:**

Mrs. Bharti Prasad  
Mrs.Gana G S  
Mrs.Sushmitha  
Assistant Professors  
Dept. of Civil Engineering

Dr. Bharathi Ganesh  
Prof. & Head  
Dept of Civil Engg

**5- DAY FACULTY DEVELOPMENT PROGRAM**  
on  
**Hands -on Online training on**  
**“PREPARING TECHNICAL DOCUMENTS USING LATEX”**  
**(03.12.20 TO 08.12.20)**

**DETAIL SCHEDULE OF TRAINING PROGRAM**

Day	Timings	Topic
03.12.20	4.30 PM to 6.30 PM	Introduction to LaTeX
04.12.20	4.30 PM to 6.30 PM	Handling Figures, Tables, References in LaTeX
05.12.20	4.30 PM to 6.30 PM	Writing paper in LaTeX
07.12.20	4.30 PM to 6.30 PM	Writing report/thesis in LaTeX
08.12.20	4.30 PM to 6.30 PM	Creating presentation in LaTeX

**About the LaTeX**

LaTeX is a document typesetting system used to produce high-quality technical documents such as books, theses, articles, technical reports etc. LaTeX offers references, table of contents, numbering figures and tables, bibliographies to be generated automatically and updated when the document changes. LaTeX is a de facto standard for publication of technical documents. This workshop will be most beneficial to students, research scholars, and faculty who want to use LaTeX to prepare their technical documents in a publishing style. The hands-on experience on LaTeX will also help the participants to acquire the skills to write technical papers, thesis, reports and books efficiently.

**About the Institute**

Nitte Meenakshi Institute of Technology (NMIT), Bengaluru, established in the year 2001 is a Private, Self-financing, an Autonomous Institution (Approved by the UGC). NMIT is ranked 128 in NIRF 2020 ranking. The institute is permanently affiliated to the Visvesvaraya Technological University (VTU) Belagavi and is approved by the AICTE, New Delhi. NMIT is a unit of Nitte Education Trust (NET), Mangalore which is pioneer in the field of education for 38 years. NMIT has been accredited by the National Assessment and Accreditation Council (NAAC-UGC) with 'A+' Grade and UG programs accredited by the National Board of Accreditation (NBA) under Tier-1 scheme. It is the only unaided private engineering college in Karnataka State selected by the Govt. of India for World Bank Funding under TEQIP Phase II- Subcomponent 1.1 in the year 2011.

**About the Department**

Department of Civil Engineering a younger Department of NMIT was started in the academic year 2009-10 with an intake of 60 students. Intake is increased to 120 students in the year 2013-14. Further in 2013-14, Department was also privileged to offer M. Tech. Program in Structural Engineering with an intake of 24. Department is a registered Research Center under VTU with 9 Research Scholars perusing their PhD in various fields of Civil Engineering. Civil Engineering UG Program is NBA (Tier I) accredited up to 2023





## Department of Civil Engineering

(Civil Engineering UG Program is NBA (Tier I) accredited up to 2025)

### PRESENTS

## 5-DAYS FACULTY DEVELOPMENT PROGRAM

ON HANDS -ON ONLINE TRAINING

ON

## “PREPARING TECHNICAL DOCUMENTS USING LATEX”

**03.12.20 to 08.12.20**  
(04:30 pm to 06:30 pm)



**SPEAKER and EXPERT TRAINER**

**Dr. B S Mahanand**

Raman Fellow (Harvard University, USA)

Associate Professor, Department of IS&E

Sri Jayachamarajendra College of Engineering

JSS SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU

Free Registration Link:

<https://forms.gle/kWLeuDXZkk6EPGWc7>



QR Code to Register

**NO REGISTRATION CHARGES**

**( Certificate will be provided for all having 80% attendance )**

### Co-ordinator

**Mrs. Bharti Prasad**

Assistant Professor,  
Department of Civil Engineering

**Mrs. Gana G S**

Assistant Professor,  
Department of Civil Engineering

**Mrs. Sushmitha Shreekanth**

Assistant Professor,  
Department of Civil Engineering

### Convener

**Dr. Bharathi Ganesh**

Professor & Head,  
Department of Civil Engineering

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LaTeX is a software for typesetting documents. In other words, it's a document preparation system. LaTeX is not a word processor, but is used as a document markup language.

LaTeX is especially well-suited for scientific and technical documents. Its superior typesetting of mathematical formulas is legendary.

The speaker Dr. Mahanand in five days online raining thought the usage of Latex in preparation of report. The hands-on training was conducted for all the faculty members and for the students. He emphasized the importance of LaTeX is by far the best when it is used in report preparation and there are other uses — it produces very high quality output, it is extremely stable, and handles complex documents easily no matter how large they are.

Further remarkable strengths of LaTeX are its cross-referencing capabilities, its automatic numbering and generation of lists of contents, figures and tables, indexes, glossaries, and bibliographies. It is multilingual with language-specific features, and it is able to use PostScript and PDF features.

Apart from being perfect for students/scientists, LaTeX is incredibly flexible—there are templates for letters, presentations, bills, philosophy books, law texts, music scores, and even for chess game notations. Hundreds of LaTeX users have written thousands of templates, styles, and tools useful for every possible purpose. It is collected and categorized online on archiving servers.

You could benefit from its impressive high quality by starting with its default styles relying on its intelligent formatting, but you are free to customize and to modify everything.

The sources of LaTeX are completely free and readable for everyone. This enables you to study and to change everything, from the core of LaTeX to the latest extension packages.

A basic principle of LaTeX is that the author should not be distracted too much by the formatting issues. The student should focus on the content and formats logically, for example, instead of writing a chapter title in big bold letters, you just tell LaTeX that it's a chapter heading—you could let LaTeX design the heading or you decide in the document's settings what the headings will look like—just once for the whole document.

LaTeX is available for nearly every operating system, like Windows, Linux, Mac OS X, and many more. Its file format is plain text—readable and editable, on all operating systems. LaTeX will produce the same output on all systems. Though there are different LaTeX software packages, so called **TeX distributions**, we will focus on **TeX Live**, because this distribution is available for Windows, Linux, and Mac OS X.



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(Civil Engineering UG Program is NBA accredited for 3 Years from 2020)



# Department of Civil Engineering

**Event Type: Webinar**

**Event Title: “Future Prospectus”**

**24<sup>th</sup> November, 2020,**

Faculty Co-ordinators:

Mrs. Gana G.S

Ms. Mrinal B

Assistant Professor

Dept. of Civil Engineering

Dr. Bharathi Ganesh

Prof. & Head

Dept of Civil Engg



**NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**

(An Autonomous Institution Under Visvesvaraya Technological University, Belgaum)

YELAHANKA, BANGALORE

Department of Civil Engineering



## **Circular**

**Date: 24 /11/2020**

### **Webinar “Future Prospectus”**

**A Webinar on “Future Prospectus ” is scheduled on 24<sup>th</sup> November, 2020, by BYJU’s to 3<sup>rd</sup> and 5<sup>th</sup> Semester students from 11:00 am to 12.00 noon.**

This webinar is been conducted on online mode and the webinar link will be sent a 1 hour prior to the session.

Platform: Cisco Webex

Faculty Co-ordinators:

Mrs. Gana G.S

Ms. Mrinal B

Assistant Professor

Dept. of Civil Engineering

Dr. Bharathi Ganesh

Prof. & Head

Dept of Civil Engg

Mr P N Santosh , the speaker from BYJU's spoke on Profile Building for Higher Education & Placements for 3<sup>rd</sup> and 5<sup>th</sup> Semester students on 24 th November 2020.

The Details of the session are as follows:

#### Part 1: Math Workshop

This part will cover patented techniques to crack Math problems and will be around these concepts viz. Geometry, Ratios, Algebra, and Successive Percentage. Here we will teach unconventional techniques which will help them solve the questions in less than 2 Mins and also placement related questions will be experimented.

#### Part 2: English Workshop

Solving English questions in a mathematical way, Reading only 20% of the RC (reading comprehension) and answering the entire question. (Patented technique)

#### Part 3: CV Workshop

In this part, we will review various resumes/CVs and the commonly committed mistakes. Also, how resumes will vary from when applying for a Job & when applying for Higher Education.

#### Part 4: Profile Building workshop

Here, we give all the information about the courses/ activities the students need to do to build their profile strong. We customize profile building activities for each department.

#### Part 5: Case Study

Various case studies will be discussed on how students can strategically plan their career and how to avoid common mistakes. For eg. When planning for a technical career the CV building will be different from when planning for a Management career.

#### Part 6: Higher Education & Placement Options

Finally, unique & highly specialized programs for Technical, Managerial & Techno-managerial programs will be discussed.

#### Part 7: Indian and International education opportunity.

GATE / GRE/ UPSC possibility of getting the seats. Details about Abroad universities, funding options, profile building, part-time jobs etc.

Speaker profile for the session :

Mr. PN Santosh is Co Founder, BYJUs and also Founder CareerLabs. He has done MBA from ISB, Hyd. Worked as Ex - Consultant , McKinsey. He has scored in GRE 338/340 , GMAT 780/800 and CAT 99 Percentile and also successful applicant to UMich, Stanford, and MIT. Sir is owner of 2 international papers and 5 patents.

## Participants List

SL.NO	USN	STUDENT NAMES	
1	1NT17CV006	ANIRUDHA V S	
2	1NT17CV009	ARJUN M GOWDA	
3	1NT17CV060	NIKHIL HEGDE	
4	1NT18CV001	AHMED SANOVER	
5	1NT18CV002	AKSHATHA T M	
6	1NT18CV003	AKSHAY GANIGER	
7	1NT18CV004	AKSHAY TIWARI	
8	1NT18CV005	AKSHAYA B M	
9	1NT18CV006	ANIKET JHA	
10	1NT18CV007	ANIL KUMAR	
11	1NT18CV008	ANIRUDH RAMESH	
12	1NT18CV009	ANJALI	
13	1NT18CV010	ANJANEYA M J	
14	1NT18CV011	ANKITH B C	
15	1NT18CV012	ANUP V	
16	1NT18CV013	APOORVA CHALLAMARAD	
17	1NT18CV014	ARCHANA HEGGE	
18	1NT18CV016	AVINASHREDDY	
19	1NT18CV018	B S VAIBHAVI	
20	1NT18CV019	BALARAJA S	
21	1NT18CV020	BALING RATAN	
22	1NT18CV021	BHOOMIKA S	
23	1NT18CV022	CHANDAN B	
24	1NT18CV023	CHARITHA N	
25	1NT18CV024	CHETHAN C	
26	1NT18CV025	CHIDANDAGOWDA N M	
27	1NT18CV027	DARSHANGOWDA M L	
28	1NT18CV028	DHANUSH B S	
29	1NT18CV030	GULAPALEM BADRINATH NAIDU	
30	1NT18CV031	HRUTHVIK S	
31	1NT18CV032	INDU DAYANAND	
32	1NT18CV033	JITESH K	
33	1NT18CV034	KIRAN S	
34	1NT18CV035	KULAGI AKSHAY KUMAR	
35	1NT18CV036	LAKSHMIPRASAD D S	
36	1NT18CV037	MADHU M	
37	1NT18CV038	MAHABOOB PATEL	
38	1NT18CV039	MALLESH	
39	1NT18CV040	MANOJ V	
40	1NT18CV041	MANOJ V WALMIKI	
41	1NT18CV042	MOHAMMADRIYAZ	
42	1NT18CV043	MOHAMMED NOUMANULLA	
43	1NT18CV044	MOHAMMED SAAD SHAFIQ HOSUR	



44	1NT18CV045	MOHAN KUMAR YADAV L	
45	1NT18CV046	MONIKA B R	
46	1NT18CV047	MOPURU MUNI KUMAR REDDY	
47	1NT18CV048	MOWLYA L	
48	1NT18CV049	MRITUNJAY KUMAR	
49	1NT18CV050	MRITUNJAY KUMAR SINHA	
50	1NT18CV051	NANDITHA E NAIK	
51	1NT18CV053	NISCHITHA B H	
52	1NT18CV054	OMKAR D VERNEKAR	
53	1NT18CV055	PADMAJARANI A V	
54	23132	RACHANA S P	
55	23135	ASMIL AAFEIR Z	
56	23155	MANASA A	
57	23270	SRINATH G S	
58	23276	MANOHAR Y S	
59	23284	BABU K R	
1	1NT16CV025	GURUPRASAD B S	
2	1NT17CV014	ASHWIN M	
3	1NT17CV030	GAGANA C	
4	1NT18CV057	PAVAN KUMAR J	
5	1NT18CV058	PAVAN P	
6	1NT18CV059	POOJITHA V	
7	1NT18CV060	PRAJWAL NAYAK	
8	1NT18CV062	PRANAMSHREE H S	
9	1NT18CV063	PRUTHVI M	
10	1NT18CV064	RAGHU H V	
11	1NT18CV065	RAHUL B M	
12	1NT18CV066	RAKSHITHA C V	
13	1NT18CV067	RANGAPPA S KARADIGUDDA	
14	1NT18CV068	RELVIN NORONHA	
15	1NT18CV069	REVANTH M	
16	1NT18CV071	RUTHIK S	
17	1NT18CV072	SAINATH YAKATHPURE	
18	1NT18CV073	SAMHITH S	
19	1NT18CV074	SANDIP SINGH	
20	1NT18CV075	SANTOSH KARAJAGI	
21	1NT18CV076	SHARATH R	
22	1NT18CV077	SHASHANK C R	
23	1NT18CV078	SHASHIBHOOSHAN SOPPIMATH	
24	1NT18CV079	SHIVSAGAR P	
25	1NT18CV080	SHREYAS M S	
26	1NT18CV081	SPANDANA M	
27	1NT18CV082	SRI VAARI PRASAD B M	
28	1NT18CV083	SRUJANA K N	
29	1NT18CV084	SWATI KULKARNI	
30	1NT18CV085	SYED ARFATH ALI	

31	1NT18CV086	VARCHAS G
32	1NT18CV087	VARUN A BANDAKLA
33	1NT18CV088	VEDASHREE G L
34	1NT18CV089	VIRAT BASAVARAJ KAGALGOMB
35	1NT18CV090	VISHNU PRIYA V
36	1NT18CV092	YASHASWINI D
37	1NT18CV093	YASHIKA T
38	1NT18CV094	YASHWANTH G
39	1NT18CV095	YUKTA KYATANNAVAR
40	1NT18CV096	AASHMA UPRETI
41	1NT18CV097	ABISHEK RAWAL
42	1NT18CV098	AKEEL RASHID
43	1NT18CV099	AMIT KUMAR SAH
44	1NT18CV100	AYUSH DAHAL
45	1NT18CV101	HARSHITH LAVANYA KUMAR
46	1NT18CV102	HITANSHI GUPTA
47	1NT18CV103	JIDAN MAHARA
48	1NT18CV104	KALYAN SINGH KUSHWAHA
49	1NT18CV105	KUSHAL TAMANG
50	1NT18CV106	MAHENDRA SINGH BISTA
51	1NT18CV107	MEHRAJ UD DIN YATOO
52	1NT18CV108	MICHANA THEENG LAMA
53	1NT18CV109	MOHD ALI
54	1NT18CV110	NIKUNJ KUMAR TODI
55	1NT18CV111	RITESH YADAV
56	1NT18CV112	SHUBHAM MANDAL
57	1NT18CV113	N SHWETHA
58	1NT18ME076	MANIKANTA M
59	23153	DINESH D DHOTRE
60	23154	MALAPPA PUJARI
61	23170	PAVAN JADHAV
62	23184	G NANDAKISHORE REDDY
63	23224	PALKURTI SUNIL
64	23304	PRAJWAL RAMESH GOWDA
65	23320	SURESH L



# NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

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Approved by AICTE, Belgaum, Govindapura, Gollahalli, P B No. 6429, Yelahanka, Bangalore – 560064, Karnataka, India,  
Ph:080, 22167800, Fax:22167805, Website:www.nmit.ac.in  
(Civil Engineering UG Program is NBA accredited for 3 Years from 2020)



## Department of Civil Engineering

**Event Type: Webinar**

**Event Title: “Two- day Virtual Field Trip”**

**Date: 05-11-2020 to 06-11-2020**

**Coordinator’s:**

**Mrs. Bharti Prasad, Assistant Professor**

**Mr. Murlidhara H, Assistant Professor**

**Mrs. Shruthi BS, Assistant Professor**

**Dr. Bharathi Ganesh**  
Prof. & Head  
Dept of Civil Engg



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## DEPARTMENT OF CIVIL ENGINEERING

(Civil Engineering UG Program is NBA (Tier I) accredited up to 2023)



# Invites you to Two- day Virtual Field Trip

(Industries located exclusively at NEPAL)

*Live Demonstration*



### Shree Steels Pvt Ltd.

Bhairahawa, Nepal

Time: 11:30 am to 12:30 pm

Date: 05.11.2020

Speaker: Prashant



### Arghakhanchi Cement Pvt Ltd.

Bhairahawa, Nepal

Time: 03:30 pm to 04:30 pm

Date: 06.11.2020

Speaker: Krishna

### Join Us at

<https://teams.microsoft.com/j/meetup->

[join/19%3ac0719a7529bb4d689afd2e113595168b%40thread.tacv2/1604480401465?context=%7b%22Tid%22%3a%226097692a-0a7b-4e97-](https://teams.microsoft.com/j/19%3ac0719a7529bb4d689afd2e113595168b%40thread.tacv2/1604480401465?context=%7b%22Tid%22%3a%226097692a-0a7b-4e97-)

[be15-92710bdb2994%22%2c%220id%22%3a%22eee6a931-9228-43ba-954b-1e653dfef10b%22%7d](https://teams.microsoft.com/j/be15-92710bdb2994%22%2c%220id%22%3a%22eee6a931-9228-43ba-954b-1e653dfef10b%22%7d)

#### STUDENT CO-ORDINATOR:

Mr. Nikunj Todi ,  
Student 5<sup>th</sup> Semester

#### FACULTY CO-ORDINATOR:

Mrs. Bharti Prasad, Assistant Professor  
Mr. Murlidhara H, Assistant Professor  
Mrs. Shruthi BS, Assistant Professor

#### PROFESSOR AND HEAD

Dr. Bharathi Ganesh

#### SUPPORTING ORGANIZATIONS



## Arghakhanchi Cement Pvt Ltd.

### About the Company

Arghakhanchi Cement Pvt. Ltd. (ACPL) is one of the largest producers of OPC and PPC cement through a single production plant in the entire Nepal. The company came into existence with an objective of establishing as well as operating separate clinker and cement manufacturing unit. It has cement production capacity of 3,600 tons per day whereas its clinker production capacity is 3,450 metric tons per day. The company generates 2.5 MW energy by using heat air emitted while producing cement. This technology help the company to use renewable energy generated by itself. The company has also brought into use electrostatic precipitator (EPC) to remove the dust particle produced during the operation of the mill. This system helps in maintaining fresh environment inside the factory premises ensuring to keep the health of the staffs safe.



## Shree Steels Pvt Ltd.

### About the Company

Shree Steels, a renowned name in Nepal, is a Fully Automated Plant, specializing in the manufacture of TMT rebars that have been particularly designed to enhance the building strength of any structure and minimize the risk of destruction caused by earthquakes. It is the first brand in Nepal to source state-of-the-art Japanese technology of Six Stand Block Mill for the production of TMT rebars.

### Landmarks built by Shree Steels

-Maheshwori Khola Bridge, Kapilvastu  
-Parliament Ministry Residence, Lalitpur

- Palpa Cement Ind. Pvt. Ltd., Bhairahawa  
-Supermadi Hydropower Ltd. Project, Kaski and many more



## Nitte Meenakshi Institute of Technology, Bengaluru

### About the Institute

Nitte Meenakshi Institute of Technology (NMIT), Bengaluru, established in the year 2001 is a Private, Self-financing, an Autonomous Institution (Approved by the UGC). NMIT is ranked 128 in NIRF 2020 ranking. The institute is permanently affiliated to the Visvesvaraya Technological University (VTU) Belagavi and is approved by the AICTE, New Delhi. NMIT is a unit of Nitte Education Trust (NET), Mangalore which is pioneer in the field of education for 38 years. NMIT has been accredited by the National Assessment and Accreditation Council (NAAC-UGC) with 'A+' Grade and UG programs accredited by the National Board of Accreditation (NBA) under Tier-1 scheme. It is the only unaided private engineering college in Karnataka State selected by the Govt. of India for WorldBank Funding under TEQIP Phase II- Subcomponent 1.1 in the year 2011.

### About the Department

Department of Civil Engineering a younger Department of NMIT was started in the academic year 2009-10 with an intake of 60 students. Intake is increased to 120 students in the year 2013-14. Further in 2013-14, Department was also privileged to offer M. Tech. Program in Structural Engineering with an intake of 24. Department is a registered Research Center under VTU with 9 Research Scholars perusing their PhD in various fields of Civil Engineering. Civil Engineering UG Program is is NBA (Tier I) accredited up to 2023



The Virtual field trip was arranged for pre final year and final year students. It was also kept open for other students across India . It is one of its kind ,due to pandemic where virtual field trip was very useful for students .

The virtual field trip was organised on 05<sup>th</sup> and 06<sup>th</sup> November 2020 . The trip was for Arghakhanchi Cement Limited (ACL), previously Arghakhanchi Cement Pvt. Ltd. (ACPL) which is one of the largest manufacturers of OPC and PPC cement through a single production plant in the entire country.

The company profile:

The company came into existence with an objective of establishing as well as operating separate clinker and cement manufacturing unit. The company has been producing high-quality clinkers through the use of ultra-modern Rotary Kiln technology for a decade. The use of high quality limestone has been instrumental in ensuring super-fineness resulting into the best quality in every single particle of the products.

On 06<sup>th</sup> November the trip was for Shree Steels Pvt Ltd.

Shree steels is a renowned name in Nepal, is a Fully Automated Plant, specializing in the manufacture of TMT rebars that have been particularly designed to enhance the building strength of any structure and minimize the risk of destruction caused by earthquakes. It is the first brand in Nepal to source state-of-the-art Japanese technology of Six Stand Block Mill for the production of TMT rebars.

### **Participants List**

<b>SL.NO</b>	<b>STUDENT NAMES</b>
1	KAJOL M
2	ABHISHEK GOWDA M R
3	AKBAR HUSAIN
4	AMIT KUMAR
5	AMRITA KUMARI
6	ANISH CHAULAGAIN
7	APOORVA K N
8	ASHA
9	ASHUTOSH
10	ASHWAAVEGHH A GUTTEDAR
11	ASWIN A
12	BABU M
13	BAKESH RAWAT
14	BALKARAN SINGH
15	BANNENAVAR ASHUTOSH RAJKUMAR
16	BISHWOMBHAR PRAKASH PANDIT
17	CHANDAN A
18	CHETHAN BC

19	CHETHAN M
20	DARSHAN R
21	DHWANI SHANTHA KUMAR
22	FAISAL RASHID
23	J U GHANASHYAM
24	GOWTHAM V
25	GURUPRASAD REDDY
26	HARANI S R
27	HASAAN MUZAFAR JAN
28	JAIDEV M K
29	JAYESH SHRESTHA
30	JYOTHIPRAKASH M
31	KARTHIK KUMAR
32	KARTHIK SIMHA K
33	KASTURIDAS RAJARAM ACHARYA
34	KIRAN KUMAR N
35	KISHAN A
36	KURAGAYALA SANDEEP KUMAR
37	MAHESH S
38	MANJUNATH R V
39	MD CHAND
40	MEGHANA A
41	MOHAMMED IRFAN ALI
42	MOHIT P
43	MONIKA S
44	BHARATHI GANESH
45	MUKUNDAREDDYGARI VENKATSAI REDDY
46	NASEER AHMAD MIR
47	NAVEEN S
48	BADMERA TANVEER
49	ABISHEK B S
50	ANJANA T
51	BABY MANJAPPA PUJAR
52	BHAGYASHREE
53	CHANDAN C S
54	DEVARAJU B T
55	KARTHIK A
56	MALATESH SHIVANAPPAGOL
57	MOHAMMAD UMEZ
58	NITHIN S
59	PRAKASH KURI
60	RASHMI RAJASHEKHAR DALAWAI
61	SHRINIDHI G GUDI
62	V MARUTHI
63	VISHWA PRASAD K V
64	GOKUL REDDY S

65	PRUTHVI H
66	SUBHASHCHANDRA BILLAKERUR
67	NAWALDEEP PRADHAN
68	NITHIN B R
69	NITHIN GOWDA B S
70	NITISH DWIVEDI
71	PAVAN KUMAR S
72	POOJA S M
73	PRATHAP S
74	PREETHAM S L
75	RAGHAVENDRA KHOOBANNA LAMANI
76	RAGHAVENDRA P C
77	RAHUL H N
78	RAJ MAHARJAN
79	RAJESH K
80	RAJU KUMAR KUSHWAHA
81	RAMESH G
82	RISHAV
83	ROHAN D J
84	S PRANITHA
85	SANDEEP K L
86	SANGAMESH
87	SAURABH GAUTAM
88	SHOBHA N
89	SHOBHANA K R
90	SHREYAS R
91	SIDDARAJU G V
92	SOORAJ R
93	SOUJANYA M KINNI
94	SPANDANA SURESH
95	SUDARSH G
96	SUDEEP POUDEL
97	SUMANTH HEGDE
98	SURYANSH VATS
99	TEJAS KUMAR H A
100	TEJESH K
101	TEJESHWAR V
102	THIPPESWAMY P V
103	THULASIDHARAN PERUMAL
104	VAMSHI REDDY V
105	VEEKSHITHA V P
106	VENKAN GOWDA V
107	VENUGOPAL V M
108	VIKAS R
109	VINAYAK P SHIVANAGUTTI
110	VINEETH S



111	VINODA D A
112	VISHWESHWAR
113	VIVEK KUMAR R
114	VIVEK R
115	YESHWANTH V
116	AYUSH MISHRA
117	ADITHYA R S
118	AKASH
119	CHIRANTH L M
120	DARSHAN M
121	GIREESH R
122	HEMA D N
123	MANOJ KUMAR R
124	PRADEEP A
125	PUNDALEEKKA MADAR
126	SANGAMESH BASAVARAJ AMBALANUR
127	SPOORTHI T
128	THRISHALA V
129	NIKHIL HEGDE
130	AHMED SANOVER
131	AKSHATHA T M
132	AKSHAY GANIGER
133	AKSHAY TIWARI
134	AKSHAYA B M
135	ANIKET JHA
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186	NIKHIL HEGDE



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## **Department of Civil Engineering**

**Event Type: Webinar**

**Event Title: “Entrepreneurial Mindset - Tips and Tricks to get Industry ready” by Vaanahaa Education And Innovation Labs Pvt Ltd**

**Date: 06-11-2020**

**Coordinator’s:**

**Mrs. Gana G S, Assistant Professor**  
**Mrs. Mrinal B Assistant Professor**

**Dr. Bharathi Ganesh**  
**Prof. & Head**  
**Dept of Civil Engg**



**NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**

(An Autonomous Institution Under Visvesvaraya Technological University, Belgaum)

**YELAHANKA, BANGALORE**

**Department of Civil Engineering**



## **Circular**

**Date: 05/11/2020**

### **Webinar**

The online webinar on “Entrepreneurial Mindset - Tips and Tricks to get Industry ready” by: Mr. Satadru Chowdhury, Vaanahaa Education And Innovation Labs Pvt Ltd is scheduled on 06-11-2020 from 11:00 am to 12.00 noon for 5<sup>th</sup> and 7<sup>th</sup> Sem students.

The webinar will be conducted on an online mode and the online meeting link will be sent prior to the session.

Platform: MS Teams

Faculty Co-ordinators:

Mrs. Gana G.S

Ms. Mrinal B

Assistant Professor

Dept. of Civil Engineering

**Dr. Bharathi Ganesh**  
Prof. & Head  
Dept of Civil Engg

Speaker Mr. Satadru Chowdhury is Founder Director - Vaanahaa Education and Innovation Labs. Mr. Chowdhury is the Adjunct Faculty of MIET Jammu Guest Faculty of various IIT's and NIT's. He has addressed over 1000 people in Speaking and Training engagements and has given 350+ Career Consultations. Mr Satadru is also known for Motivational Speaker at Josh Talk and Entrepreneur by himself - running a successful Construction Company.

The webinar was organised for 2<sup>nd</sup> year and 3<sup>rd</sup> year students on 06 November 2020.

The speaker spoke about the problems faced by the students in enhancing skills in present situation apart from academics.

The speaker spoke on helping students to develop skills based on Industrial needs and helping students to start making money in following way, Starting up own venture Freelancing Knowledge Sharing Business Get Licenses - Licensed Building Surveyor, Licensed Builder, Licensed Architect, Licensed Structural Engineer.

Institution of engineers (India) was granted British Royal Charter in 1935, and admits engineers holding the above degrees as a corporate member (AMIE) or chartered engineer.

Importance of mentor and to Learn what Industry needs from Industry Experts and help them with Certification with unique verification feature , Internship on course completion , Business/Startup Setup Guidance , Freelancing work support , Weekly updates on Internship/Job Opportunity , Free 1 to 1 mentorship , Avail Free assistance from our dedicated HR team before appear for any Interview.

Analysis of Truss Bridge :

Truss bridge is a type of bridge whose main element is a truss which is a structure of connected elements that

form triangular units. Truss is used because it is a very rigid structure and it transfers the load from a single point

to a much wider area.

Key Topics to be covered:

- Detail introduction on Bridge Engineering
- Significance and Importance in modern days
- Introduction to major Industry grade Structural Analysis software
- Analysis of Steel Beam using IS CODE
- Analysis of Concrete Beam using IS CODE
- Steel and Concrete frame analysis
- Analysis of Truss
- Analysis of Truss Bridge Considering Loading
- Bridge Fabrication using Balsa Woods
- Efficiency Test

Building Information Modeling (BIM) course is revolutionizing design processes through the construction

industry, and security is no exception. Just as Computer Aided Design (CAD) represented a sea change in how

drawings are produced and shared, BIM, with its 3-D modeling capabilities, will deliver an equivalent or greater

impact to the industry. This course presents a basic grounding in the technology and its benefits, potential

applications in security, and likely implementation issues.

Key Topics to be covered:

- Introduction Building Information Modelling
- Detail discussion on the 6D concept of BIM and application
- Introduction to BIM software
- Morphing using BIM software
- Geometry site creation using real-time data from field surveying
- 3D Modelling and detail documentation
- The design concept of Interior and exterior
- Image rendering of Project
- Documentation and Report generation with detail analysis
- Detail Case studies on the Industry standard projects

Construction Project Management and Risk Analysis

With the development of skyscraper concept around the corner no matter how simple or complicated project is, it demands the advanced skills and technologies from the Project Managers to create deep impact on end results. Using the concept of Building information modelling, construction managers are taking extra care for the projects which can

be a small two floor house or a commercial high rise which ultimately helps them to produce big value to Building

Owners or investors.

Key topics to be covered:

- Importance of Project Management
- Project Life Cycle
- Time Cost and Scope analysis
- Introduction Building Information Modelling
- Earned Value Management
- Resource Planning and Management
- Monitoring and controlling of a project
- Detail discussion on 4D.5D.6D concept in BIM
- Structural BIM Modelling
- Documentation and Report generation with detail analysis

## **Participants List**

1	CHETHAN C
2	CHIDANDAGOWDA N M
3	DARSHANGOWDA M L
4	DHANUSH B S
5	GULAPALEM BADRINATH NAIDU
6	HRUTHVIK S

7	INDU DAYANAND
8	JITHESH K
9	KIRAN S
10	KULAGI AKSHAY KUMAR
11	LAKSHMIPRASAD D S
12	MADHU M
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52	SHUBHAM MANDAL

53	N SHWETHA
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61	SURESH L





## **NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**

An Autonomous Institution under VTU, A Grade by NAAC, UGC  
Approved by AICTE, Belgaum, Govindapura, Gollahalli, P B No. 6429, Yelahanka, Bangalore – 560064, Karnataka, India,  
Ph:080, 22167800, Fax:22167805, Website:www.nmit.ac.in  
(Civil Engineering UG Program is NBA accredited for 3 Years from 2020)



## **Department of Civil Engineering**

**Event Type: Faculty Development Program**

**Event Title: “Waste Management  
& Environmental Protection- A Sustainable Approach”**

**Date: 12-10-2020 to 17-10-2020**

**Coordinator’s:**

**Mrs. Gana G S, Assistant Professor  
Mrs. Mrinal B Assistant Professor**

**Dr. Bharathi Ganesh  
Prof. & Head  
Dept of Civil Engg**



# NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

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## Circular

Date: 10/10/2020

### Faculty Development Program

A Six-Day National Level Online FDP on “**Waste Management & Environmental Protection- A Sustainable Approach**” is scheduled from **12<sup>th</sup> October-17<sup>th</sup> October, 2020**, from 10:30 am to 12.30 pm.

This FDP will be conducted on an online mode and the webinar links will be sent a day prior to the session.

Platform: MS Teams

Faculty Co-ordinators:

Mrs. Gana G.S

Ms. Mrinal B

Assistant Professor

Dept. of Civil Engineering

Dr. Bharathi Ganesh  
Prof. & Head  
Dept of Civil Engg

## **INVITATION**

### **DEPARTMENT OF CIVIL ENGINEERING**

*[UG Civil Engineering Program, NMIT is NBA accredited (Tier I) up to 2023]*

## **NMIT, Bengaluru & NMAMIT, Nitte.**

in association with

**Prakruthi Institute of Environmental Studies**



INVITES ALL TO

6 DAY NATIONAL LEVEL ONLINE

**FACULTY DEVELOPMENT PROGRAM**

ON

**“WASTE MANAGEMENT & ENVIRONMENTAL PROTECTION-**

**A SUSTAINABLE APPROACH”**



**TIME & DATE: 10:30 AM – 12.30 PM(IST),  
12th October, 2020 to 17<sup>th</sup> October, 2020**

**ALL ARE CORDIALLY INVITED**

# Waste Management & Environmental Protection: A Sustainable Approach

6 Day National FDP @ NMIT, Bangalore

## PROGRAM SCHEDULE

Date and Time	Topics of Presentation	Resource Person
<b>Inaugural Function</b>		
12/10/2020 10:00 AM- 10:30 AM	<b>Welcome Address</b>	<b>Dr. Bharathi Ganesh</b> , HOD, Dept. of Civil Engineering
	<b>About Program</b>	<b>Dr. Vidyavathi N</b> , Professor, Dept. Of Civil Engineering
	<b>About NMIT</b>	<b>Dr. H.C.Nagaraj</b> , Principal, NMIT
	<b>Address by Chief Guests</b>	<b>Dr. B.N. Ramesh Kumar</b> , President, Prkruthi Institute of Environmental Studies, Bengaluru <b>Mr. D.R. Kumaraswamy</b> , Honorary Director, Prkruthi Institute of Environmental Studies
	<b>Address by Guests of Honour</b>	<b>Dr. H.C.Nagaraj</b> , Principal, NMIT <b>Dr. V. Sridhar</b> , Dean-Academic, NMIT <b>Mr. Rohit Punja</b> , Administrator, NMIT <b>Dr.Niranjan N Chiplunkar</b> , Principal, NMAMIT <b>Dr. I.R.Mithanthaya</b> ,Vice Principal & Dean-Academic, NMAMIT
12/10/2020 10:30 AM – 12:30 PM	<b>Sustainable Development and Biodiversity</b> <i>Moderators:</i> Mrs. Gana G.s & Ms. Mrinal	<b>Mr. D. R Kumaraswamy</b> Honorary Director, Prkruthi Institute of Environmental Studies, Bengaluru
13/10/2020 10:30 AM – 12:30 PM	<b>Analysis of Water &amp; Wastewater</b> <i>Moderators:</i> Mrs. Shruthi B.S & Mrs. Sushmitha P	<b>Dr. Nagappa</b> Former Senior Scientific Officer, KSPCB Bengaluru
14/10/2020 10:30 AM – 12:30 PM	<b>Ozone Protection and Its Importance</b> <i>Moderators:</i> Dr. Jairaj C & Mrs. Prathima G	<b>Mr. D. R Kumaraswamy</b> Honorary Director, Prkruthi Institute of Environmental Studies, Bengaluru
15/10/2020 10:30 AM – 12:30 PM	<b>E-waste Management and Recycling</b> <i>Moderators:</i> Mr. Shreyas A.V & Mrs. Moulya H. V	<b>Mr. Venkatesha Murthy</b> Founder & CEO, Vans Chemistry Pte, Ltd, Singapore
16/10/2020 10:30 AM – 12:30 PM	<b>Air Pollution and Control &amp; Air Quality Index</b> <i>Moderators:</i> Mr.Umashankar Patil G.H & Mrs.Shwetha K.G	<b>Mr. T. Mahesh</b> Senior Environmental Officer, KSPCB Head Office, Bengaluru
17/10/2020 10:30 AM – 12:30 PM	<b>Selection of STP Technologies and Zero Liquid Discharge- A Case Study</b> <i>Moderators:</i> Dr. Ramesh B .R & Mrs. Bharti Prasad	<b>Dr. Ananth Kodavasal</b> Director, Ecotech Engineering Consultancy Pvt. Ltd, Bengaluru
<b>17/10/2020, 12.30pm to 1.00 pm Valedictory Program</b>		
<b>Please Note: Webinar Links will be shared a day prior to the session</b>		

## SUPPORTING ORGANIZATIONS



**Program Coordinators:**  
**Mrs. Gana. G. S & Ms. Mrinal.B**  
Assistant Professors,  
Dept. of Civil Engineering, NMIT,  
Bangalore

**Convener**  
**Dr. Bharathi Ganesh**  
Professor & Head,  
Dept. of Civil Engineering, NMIT

**ALL ARE CORDIALLY INVITED**

## ABOUT NMIT

Nitte Meenakshi Institute of Technology (NMIT) is one of the institutions run by the Nitte Education Trust, Mangalore, known for its quality education, serving the education field from primary to higher and professional levels in the state of Karnataka. NMIT with its founding vision and mission of imparting state-of-the-art technical education that would enable the youth to compete and deliver in the global world and market scenarios has built high reputation and attained autonomous status within a very short time of its inception. The institute with equal focus on academics and research is offering UG and PG Programs in engineering, MBA and MCA, has established 8 Research Centers recognized under various universities. NMIT, accredited by the National Assessment and Accreditation Council (NAAC) with A+ Grade, is ranked 128 among the Engineering Institutions in the country which includes IITs/NITs/IIITs etc., by the National Institutional Ranking Framework (NIRF) - MHRD for the Year 2020. NMIT is awarded 'GOLD' rating from QS iGauge for the period 2018-2021, the college is awarded "platinum" a highest Grade in the AICTE-CII 2018 Survey of Industry linked technical institutions. NMIT is designated as "a Mentor Institution for "Swachhta Action Plan" by "Mahatma Gandhi National Council of Rural Education (MGNCRE)- MHRD", Government of India has recognized NMIT as one of the "Exemplary Performers" in campus water and sanitation management. There are 08 Centres of Excellence under various Departments.

### About Civil Engineering Department

The Department of Civil Engineering at NMIT was established in the year 2009 under an Autonomous scheme having an intake of 60 and in the year 2013, the intake of UG was increased to 120 and has an Autonomous PG Program in Structural Engineering with an intake of 24. It is one of the Core Engineering Departments of NMIT, growing in leaps and bounds contributing to academics and research fields. Being known for its Industry-Institute networking, it is grooming the budding engineers to the ever challenging requirements of the field. The Department is imparting quality education to meet the technological and industrial advancement.

## Department of Civil Engineering NMIT & NMAMIT

in association with  
**Prakruthi Institute of Environmental Studies**



6 Day National Level Online

## Faculty Development Program on Waste Management & Environmental Protection: A Sustainable Approach



Every Day Session Time - 10.30am-12.30pm  
12/10/2020 to 17/10/2020

UG Civil Engineering Program, NMIT is NBA accredited  
(Tier I) up to 2023]

Webinar Link will be shared a Day prior to the  
Session

### General Introduction:

With growing population and rapid urbanisation, waste generation in India and worldwide has increased significantly over the last few decades, polluting the environment alarmingly. With the national-level focus on sustainable waste management to achieve "Zero Waste" on one side and "Clean and Green Environment" on the other, aiming at converting waste to resources. It is the social responsibility of researchers of various educational fields to contribute significantly, adopting scientific approaches towards addressing these problems creating awareness among all the stakeholders.

### Objectives of FDP:

1. To get updated on the progress and pace of change in management of wastes from various sources, environmental protection, technological progress and societal expectations
2. To provide an overview of global environment trends and status, assessment of quality and remedial approach
3. To get Exposed to the latest set of trends, including local air quality and emissions that affect the global climate
4. To provide an insight into the Water Quality Assessment, E-Waste Management, appropriate STP Technologies, Regulations and Guidelines
5. To provide a holistic approach towards sustainable developments in the field, addressing the problems of ecosystems and the ecological complexes

### Target Audience:

Research scholars, Faculty members of various Educational Institutions and Industry professionals, Students

### Registration Fee:

**Rs. 250 /-** per participant

Participants are requested to make the Payment and Register in the Google Form using the link  
<https://forms.gle/B5fMvA9jWey1kxJ56>







### Account Details

Beneficiary Name: \_\_\_\_\_  
Nitte Meenakshi Institute of Technology  
A/c No: 094010100165396 IFSC  
Code: UTIB0000094  
Or Gpay Number - 9480642357

### Contact Details:

Telephone: 080-22167826  
Mobile No: 9482875705, 8884825258, 8073989357  
E-mail: [civiloffice@nmit.ac.in](mailto:civiloffice@nmit.ac.in)

## Topics Covered:

-  **Sustainable Development and Biodiversity [12/10/2020]**
-  **Analysis of Water & Waste-water [13/10/2020]**
-  **Ozone Protection and Its Importance [14/10/2020]**
-  **E-waste Management and Recycling [15/10/2020]**
-  **Air Pollution and Control & Air Quality Index [16/10/2020]**
-  **Selection of STP Technologies and Zero Liquid Discharge- A Case Study [17/10/2020]**

Every Day Session Time - 10.30am-12.30pm

**[UG Civil Engineering Program, NMIT is NBA accredited (Tier I) up to 2023]**

### Program Coordinators:

**Mrs.Gana G. S**

Assistant Professor,  
Dept. of Civil Engineering, NMIT  
[gana.gs@nmit.ac.in](mailto:gana.gs@nmit.ac.in), +91- 8884825258

**Ms. Mrinal. B**

Assistant Professor,  
Dept. of Civil Engineering, NMIT  
[mrinal.bhandary@nmit.ac.in](mailto:mrinal.bhandary@nmit.ac.in), +91- 9482875705

### Chief Patrons:

**Sri. Vinay Hegde**, President, Nitte Education Trust

**Prof. N. R. Shetty**, Advisor, Nitte Education Trust  
Chancellor, Central University of Karnataka, Kalburgi, Karnataka

### Advisory Committee:

**Dr. H.C. Nagaraj**, Principal, NMIT

**Dr. V. Sridhar**, Dean-Academics, NMIT

**Dr. L. M. Patnaik**, Advisor-Technical), NMIT

**Dr. K. Sudha Rao**, Advisor-Admin & Management

**Dr. Jharna Majumdar**, Dean-R&D, NMIT

**Mr. Rohit Punja**, Administrator, NMIT

**Dr B. N. Ramesh Kumar**, President, Pracruthi Institute of Environmental Studies, Bangalore

**Dr. Niranjan N. Chiplunkar**, Principal NMAMIT, Nitte

**Dr. I. R. Mithanthaya**, Vice Principal & Dean-Academic, NMAMIT, Nitte

### Organizing Committee:

#### Professors

Dr. Ramesh B. R, Dr. B. A. Kanchan Garg,  
Dr. Pranesh R. N, Dr. N.Vidyavathi,  
Dr. Raghava G, Dr. R. Nagendra,  
Dr. J. Durga Prasad, Prof. Raj Kumar Pillai,  
Dr. Arun Bhat

#### Associate Professors and Assistant Professors

Mrs. Prathima G, Dr. Jairaj C, Mr.  
Muralidhar H, Mr. Kiran M U,  
Mrs. Shwetha K.G, Mr.Umashankar Patil,  
Mr. Shreyas A. V, Mrs. Shruthi B S,  
Mr.Mahesh Kumar, Mr. Vishwachetan SG,  
Mrs. Bharti Prasad, Mr. Manjunath L,  
Mrs Sushmitha, Mrs. Moulya H V

### Moderator:

**Sri. D. R. Kumaraswamy**,

Honorary Director, Pracruthi Institute of Environmental Studies, Bangaluru.

### Convener:

**Dr. Bharathi Ganesh**,

Prof. & Head, Department of Civil Engineering,  
NMIT, Bangalore

### Resource Persons:

- Mr. D. R. Kumaraswamy**,  
Honorary Director, Pracruthi Institute of Environmental Studies, Bengaluru
- Dr. Nagappa**,  
Former Senior Scientific Officer, KSPCB, Bengaluru.
- Mr. Venkatesha Murthy**,  
Founder & CEO, Vans Chemistry PTE, Ltd, Singapore.
- Mr. T. Mahesh**,  
Senior Environmental Officer, KSPCB, Head Office, Bengaluru
- Dr. Ananth S. Kodavasal**,  
Director, Ecotech Engineering Consultancy PTE. Ltd, Bengaluru

### Supporting Organizations:



### Certificate:

- Minimum 80% attendance is mandatory for obtaining a Participation Certificate.
- E-Certificates will be issued after filling up a feedback form at the end of each session & Quiz at the end of the Program.

Date: 07/10/2020

To  
The principal  
NMIT  
Bangalore - 560064

Through Proper Channel

Dear Sir,

Sub: 6-Day National Level Online FDP on 12<sup>th</sup> October 2020 to 17<sup>th</sup> October 2020- Request for sanction

The Department of Civil Engineering NMIT in association with NMAMIT, Nitte has planned to conduct 6- Day National Level Online Faculty Development Program on "Waste Management & Environmental Protection: A Sustainable Approach" in association with Prakruthi Institute of Environmental Studies, with Sri Kumaraswamy, MD of the Company as Moderator.

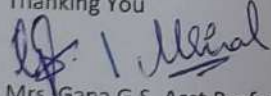
It is proposed to fix a Registration fee of Rs.250/- for the participants. Kindly instruct to create an account Head "FDP-Env Engg. Civil Dept" for ease of transactions.

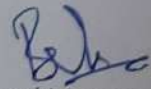
There are 6 Expert Speakers from the Industry, who will be delivering the lectures. Kindly give the permission to conduct the FDP and also sanction the remuneration to the Expert Speakers from the Industry

Item	Nos	Rate	Amount
Remuneration for the speakers+ Moderator	6+1	Rs.2500/-	Rs. 17500/-
Total		Rs.17500/-	
Total in words	Seventeen Thousand Five Hundred Only		

The details of Account number and PAN of each speaker will be provided before the start of the event. Kindly sanction the same and oblige.

Thanking You

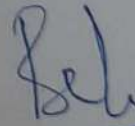
  
Mrs. Gana G.S, Asst Professor  
Ms. Mrinal. B, Asst Professor  
Department of Civil Engineering  
NMIT, Bangalore

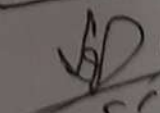
  
Dr. Bharathi Ganesh  
Professor and Head  
Dept. of Civil Engineering

Enclosed: The Brochure of FDP and Invitation



Forwarded for needful.

  
07/10/20

- Alc / Mrs. Rowena  
  
15/10/2020.

**6-Day National Level Online FP on Waste Management & Environmental Protection - A Sustainable Approach**

**Attendance List-Day 1**

<b>Sl. No</b>	<b>Name of the Participant</b>
1	Mrinal Bhandary
2	DHWANI SHANTHA KUMAR
3	Nagappa B
4	Asha Arwikar
5	sarjana kiran
6	Keerthi Gowda B S (Guest)
7	M.Sanjeevagandhi (Guest)
8	Chethan B C
9	Tejesh K
10	Ritesh Yadav
11	Faisal Rashid
12	Harshitha M N
13	Mahesh Shetty
14	Sunanda C V
15	Sushmitha Shreekanth
16	Saurav Rauniyar
17	Raja S
18	Harshitha M N
19	D P MAHESH (Guest)
20	Mohit P
21	vishalis (Guest)
22	Dr Suresh D Mane
23	ARJUN C HAKTOOR (Guest)
24	Ananthalakshmi Venkatesh
25	Leena More
26	Dr. Bharathi Ganesh
27	Moulya H.V
28	Md Chand
29	D P MAHESH (Guest)
30	Gana G S
31	Dr.Megha Kulkarni
32	kumaraswamy (Guest)
33	Nanditha

<b>Sl. No</b>	<b>Name of the Participant</b>
69	Dr.Vidyavathi N
70	Dr Subha Ranjan (Guest)
71	Sudeep Poudel
72	Dr. Barada Pr. Mohapatra (Guest)
73	Vamshi Reddy V
74	S.Pranitha Reddy
75	ravinder.civil
76	Nithin Gowda BS
77	Pundaleeka Madar
78	SUDARSH G
79	Aswin A
80	bnrameshkumar
81	MANJUNATH R V
82	Raghavendra PC
83	Dr G. Raghava (Guest)
84	MRUTYUNJAY HIREMATH
85	Raghavendra Lamani
86	Yeshwanth V V
87	UMA SM
88	Arun Kumar Bhat (Guest)
89	Vinoda DA
90	Pavan kumar S
91	saurabh gautam
92	SUBHASHCHANDRA BILLAKERUR
93	Kasturidas Acharya
94	Amrita Kumari
95	KASHIRAH TAHSEEN
96	Venugopal V M
97	PRITHVIRAJ H K
98	sadiq mujawar
99	Bhagyashree Patil
100	Jayesh Shrestha
101	Kushal Dubey



34	Dr Pradeep Badiger
35	Aniruddha Chavan (Guest)
36	k.subramanyam
37	Shwetha K G
38	Bannenavar Ashutosh Rajkumar
39	UMASHANKARPATIL GH
40	Sangamesh Ambalanur
41	Abishek B S
42	Prathap S
43	Vinayak Shivanagutti
44	avijit mondal (Guest)
45	K SUBRAMANYAM (Guest)
46	Tejas kumar H A
47	Shobhana K R
48	Veekshitha V P
49	Shobha N
50	Vishwa prasad K V
51	MOHAMMED IRFAN ALI
52	Soujanya M Kinni
53	Shrinidhi Gudi
54	Rashmi Dalawai
55	Er. Mayankeshwar Singh
56	Tanveer Badmera
57	Praveensingh Rajaput
58	Rajesh.K(1NT17CV074) (Guest)
59	Shaniha KK
60	Mahalakshmi Mani
61	aniruddhachavan2310
62	Avijit Mondal
63	Harani S R
64	Dr Suresh D Mane
65	E. POONGUZHALI (Guest)
66	MANOJ KUMAR R
67	Sandeep kumar Kuragayala
68	MEGHANA A

102	Ayush Mishra
103	Hemalatha Prabhuswamy
104	Vishweshwar Shankarshetty
105	pooja S M
106	Anish Chaulagain
107	Farheen Bano (Guest)
108	Preetham S L
109	Sandeep K L
110	Raju kumar kushwaha
111	vishalis (Guest)
112	PRADEEP A
113	Prathima G
114	Hema D N
115	Kajol Mohan
116	Bishwombhar Prakash Pandit
117	Shreyas R
118	Akash .
119	Nawaldeep Pradhan
120	M. MAHALAKSHMI (Guest)
121	Babu M
122	Mohammad Umez
123	Ramya sri boddapati
124	kavana.s (Guest)
125	Anjana T
126	Raj Maharjan
127	Sadiq Mujawar (Guest)
128	Sharmila A, VVCE (Guest)
129	Nithin S
130	sarjana kiran (Guest)
131	Monika Sreedhara
132	DR. D. SREENIVASULU (Guest)
133	Bharti Prasad
134	jayaprakash (Guest)
135	Dr. Vishishtta Nagaraj (Guest)
136	G.VENU RATNA KUMARI (Guest)
137	M. Mahalakshmi

### Attendance List-Day 2

Sl. No	Name of the Participant
1	Mrinal Bhandary
2	Md Chand
3	JONNALA SUBBA REDDY
4	Shreyas R
5	Vishwa prasad K V
6	Gana G S
7	Mahesh S
8	kumaraswamy (Guest)
9	Kiran Kumar N
10	Kulagi Akshay Kumar
11	Babu M
12	Dr B Santhaveerana Goud
13	Darshan Gowda M L
14	MANJUNATH R V
15	Monika B R
16	Moulya H.V
17	Avinash Reddy
18	Shwetha K G
19	Mahaboob Patel
20	Sudhansu S Nanda (Guest)
21	Dr. Vishishtta Nagaraj (Guest)
22	MEGHANA A
23	Ananthalakshmi Venkatesh
24	Tanveer Badmera INT17CV113 (Guest)
25	Dr. Bharathi Ganesh
26	Leena More
27	Dr Suresh D Mane
28	Dr mahesh s s
29	Er. Mayankeshwar Singh
30	Kasturidas Acharya
31	DHWANI SHANTHA KUMAR
32	Asha Arwika
33	kumaraswamy (Guest)
34	Avijit Mondal
35	Ar.UMA S M

Sl. No	Name of the Participant
37	Arun Kumar Bhat (Guest)
38	Raghavendra PC
39	Dr. Barada Pr. Mohapatra (Guest)
40	Dr.M.Velan (Guest)
41	M. MAHALAKSHMI (Guest)
42	Raj Maharjan
43	Raja S
44	Saurav Rauniyar
45	Dr.Brunghesh K V
46	Dr Subha Ranjan (Guest)
47	MOHAMMED IRFAN ALI
48	Venugopal V M
49	Sudeep Poudel
50	Rashmi Dalawai
51	Vivek r
52	ravinder.civil
53	Chethan B C
54	Bishwombhar Prakash Pandit
55	Adithya rs
56	Dr Suresh D Mane
57	Dr.Megha Kulkarni
58	Shrinidhi Gudi
59	Nithin Gowda BS
60	Sandeep K L
61	sunanda.rrit
62	Hema D N
63	Ashwaaveghh Guttedar
64	Nischitha Bh
65	Hemalatha Prabhuswamy (Guest)
66	Raghavendra Lamani
67	Sudhansu S Nanda (Guest)
68	Nanditha
69	Shobhana K R
70	SUDARSH G
71	Keerthi Gowda B S (Guest)

36	Sharmila A, VVCE (Guest)
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72	Bharathkumar Rb
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73	S.Pranitha Reddy
74	Dr.Brungesh K V
75	Bhagyashree Patil
76	B S Vaibhavi
77	Aswin A
78	Hruthvik S
79	Sumanth Hegde
80	k.subramanyam
81	Sandeep kumar Kuragayala
82	Anjana T
83	Siddaraju G V
84	varma
85	Pavan kumar S
86	Abishek B S
87	pushparaj manai
88	pooja S M
89	bnrameshkumar
90	Bannenavar Ashutosh Rajkumar
91	Mohammad Umez
92	Mohammad Umez
93	Apoorva I c
94	Kiran s Kiran s
95	KASHIRAH TAHSEEN
96	Balaraja S
97	K SUBRAMANYAM (Guest)
98	Farheen Bano (Guest)
99	Chethan M
100	Shobha N
101	Ayush Mishra
102	Anish Chaulagain
103	Pundaleeka Madar
104	Dr G. Raghava (Guest)
105	Mallesh Mallaiah
106	MANOJ KUMAR R
107	Jithesh K
108	vishalis (Guest)

109	Rajesh K
110	Archana K
111	Jayesh Shrestha
112	Harani S R
113	MOHAN KUMAR YADAV L
114	saurabh gautam
115	ARJUN C HAKTOOR (Guest)
116	BABY MANJAPPA PUJAR
117	V B Gudiyavar
118	aniruddhachavan2310
119	Prathap S
120	Amrita Kumari
121	Mohit P
122	MRUTYUNJAY HIREMATH
123	DR PROF(Ing) GURUDUTT SAHNI (Guest)
124	Monika Sreedhara
125	Poonguzhali E
126	sarjana kiran (Guest)
127	PRADEEP A
128	Archana K
129	Mahesh Kumar C L
130	Kushal Dubey
131	Tejas kumar H A
132	D P MAHESH (Guest)
133	vbb (Guest)
134	Shashidhar S
135	Leena More
136	Nawaldeep Pradhan
137	kavana.s (Guest)
138	Dr. Vishishtta Nagaraj (Guest)
139	Raju kumar kushwaha
140	Prathima G
141	Ananthalakshmi Venkatesh
142	Ramya sri boddapati
143	Raja
144	Ramya sri boddapati

145	Ar. Uma SM
146	Vinayak Shivanagutti
147	Nitish Dwivedi
148	Dr.Brungesh K V
149	Tejesh K
150	NITHIN B R
151	M.Sanjeevagandhi (Guest)

152	Vineeth S
153	Soujanya M Kinni
154	Dr. Vishishtta Nagaraj (Guest)
155	sarjana kiran
156	ANIL KUMAR M
157	Shashidhar S
158	Ar. Uma SM

Sl. No	Name of the Participant
1	Mrinal Bhandary
2	Md Chand
3	JONNALA SUBBA REDDY
4	Shreyas R
5	Vishwa prasad K V
6	Gana G S
7	Mahesh S
8	kumaraswamy (Guest)
9	Kiran Kumar N
10	Kulagi Akshay Kumar
11	Babu M
12	Dr B Santhaveerana Goud
13	Darshan Gowda M L
14	MANJUNATH R V
15	Monika B R
16	Moulya H.V
17	Avinash Reddy
18	Shwetha K G
19	Mahaboob Patel
20	Sudhansu S Nanda (Guest)
21	Dr. Vishishtta Nagaraj (Guest)
22	MEGHANA A
23	Ananthalakshmi Venkatesh
24	Tanveer Badmera INT17CV113 (Guest)
25	Dr. Bharathi Ganesh
26	Leena More
27	Dr Suresh D Mane
28	Dr mahesh s s
29	Er. Mayankeshwar Singh
30	Kasturidas Acharya
31	DHWANI SHANTHA KUMAR
32	Asha Arwikar
33	kumaraswamy (Guest)
34	Avijit Mondal
35	Ar.UMA S M
36	Sharmila A, VVCE (Guest)

73	S.Pranitha Reddy
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Sl. No	Name of the Participant
37	Arun Kumar Bhat (Guest)
38	Raghavendra PC
39	Dr. Barada Pr. Mohapatra (Guest)
40	Dr.M.Velan (Guest)
41	M. MAHALAKSHMI (Guest)
42	Raj Maharjan
43	Raja S
44	Saurav Rauniyar
45	Dr.Brungesh K V
46	Dr Subha Ranjan (Guest)
47	MOHAMMED IRFAN ALI
48	Venugopal V M
49	Sudeep Poudel
50	Rashmi Dalawai
51	Vivek r
52	ravinder.civil
53	Chethan B C
54	Bishwombhar Prakash Pandit
55	Adithya rs
56	Dr Suresh D Mane
57	Dr.Megha Kulkarni
58	Shrinidhi Gudi
59	Nithin Gowda BS
60	Sandeep K L
61	sunanda.rrit
62	Hema D N
63	Ashwaaveghh Guttedar
64	Nischitha Bh
65	Hemalatha Prabhuswamy (Guest)
66	Raghavendra Lamani
67	Sudhansu S Nanda (Guest)
68	Nanditha
69	Shobhana K R
70	SUDARSH G
71	Keerthi Gowda B S (Guest)
72	Bharathkumar Rb

109	Rajesh K
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74	Dr.Brungesh K V
75	Bhagyashree Patil
76	B S Vaibhavi
77	Aswin A
78	Hruthvik S
79	Sumanth Hegde
80	k.subramanyam
81	Sandeep kumar Kuragayala
82	Anjana T
83	Siddaraju G V
84	varma
85	Pavan kumar S
86	Abishek B S
87	pushparaj manai
88	pooja S M
89	bnrameshkumar
90	Bannenavar Ashutosh Rajkumar
91	Mohammad Umez
92	Mohammad Umez
93	Apoorva I c
94	Kiran s Kiran s
95	KASHIRAH TAHSEEN
96	Balaraja S
97	K SUBRAMANYAM (Guest)
98	Farheen Bano (Guest)
99	Chethan M
100	Shobha N
101	Ayush Mishra
102	Anish Chaulagain
103	Pundaleeka Madar
104	Dr G. Raghava (Guest)
105	Mallesh Mallaiah
106	MANOJ KUMAR R
107	Jithesh K
108	vishalis (Guest)

145	Ar. Uma SM
146	Vinayak Shivanagutti
147	Nitish Dwivedi

110	Archana K
111	Jayesh Shrestha
112	Harani S R
113	MOHAN KUMAR YADAV L
114	saurabh gautam
115	ARJUN C HAKTOOR (Guest)
116	BABY MANJAPPA PUJAR
117	V B Gudiyavar
118	aniruddhachavan2310
119	Prathap S
120	Amrita Kumari
121	Mohit P
122	MRUTYUNJAY HIREMATH
123	DR PROF(Ing) GURUDUTT SAHNI (Guest)
124	Monika Sreedhara
125	Poonguzhali E
126	sarjana kiran (Guest)
127	PRADEEP A
128	Archana K
129	Mahesh Kumar C L
130	Kushal Dubey
131	Tejas kumar H A
132	D P MAHESH (Guest)
133	vbb (Guest)
134	Shashidhar S
135	Leena More
136	Nawaldeep Pradhan
137	kavana.s (Guest)
138	Dr. Vishishtta Nagaraj (Guest)
139	Raju kumar kushwaha
140	Prathima G
141	Ananthalakshmi Venkatesh
142	Ramya sri boddapati
143	Raja
144	Ramya sri boddapati

152	Vineeth S
153	Soujanya M Kinni
154	Dr. Vishishtta Nagaraj (Guest)

148	Dr.Brungesh K V
149	Tejesh K
150	NITHIN B R
151	M.Sanjeevagandhi (Guest)

155	sarjana kiran
156	ANIL KUMAR M
157	Shashidhar S
158	Ar. Uma SM



# NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

An Autonomous Institution under VTU, A Grade by NAAC, UGC  
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Ph:080, 22167800, Fax:22167805, Website:www.nmit.ac.in  
(Civil Engineering UG Program is NBA accredited for 3 Years from 2020)



*Report on*

**Six- Day National Level Online Faculty Development  
titled**

**“Waste Management & Environmental Protection –  
A Sustainable Approach”**

**12<sup>th</sup>- 17<sup>th</sup> October, 2020.**

**Faculty Coordinators**

**Mrs. Gana G S**

**Assistant Professor**

**Ms. Mrinal. B**

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**Department of Civil Engineering**

**Nitte Meenakshi Institute of Technology**

**Yelahanka, Bangalore-560064**

**2020-21**



## **Day 1- Session on “ Sustainable Development and Biodiversity” by Mr. D. R Kumarswamy**

### **Speaker’s Profile**

Sri. D.R. Kumaraswamy born on 02-08-1959 at Shivmogga, Shivmogga District, Karnataka, He graduated (B.E.Civil) at Davangere from GBDT College of Engineering, Mysore university in 1983 with first class with distinction. He completed his Master Degree (Environmental Engineering) from BVM College of Engineering, V.V. Nagar, Anand, Gujarat State.



He joined the Karnataka State Pollution Control Board during 1984 as Assistant Engineer. Board sent him West Germany during 1986-87 for “Advanced Professional Training” during his Training he visited important cities in West- Germany. And he also visited UK, France and Luxemburg countries.

During 2011-12 he visited Singapore to study on E-waste Recycling. During 2012-13 he visited China to attend Electronic Recycling Asia and also visited Macaw, Hang Kong, Malaysia to study on Waste to Energy and Municipal Solid Waste disposal facility. During 2013-14 he visited Germany, Austria, France, Switzerland and Dubai to study about the recycling of E-waste, Hazardous Waste, Municipal Solid Waste etc., also about the reuse of Plastic Waste as a fuel in Steel Mills. During 2017-18 he visited USA study on recycling of sewage. During 2019, he also went for Study tour to France, Sweden, Holland, Switzerland, Italy and Dubai.

He has already published 12 Books in Kannada and donated about 12,000 Books to School Students and Industries. He held the number of position in the Pollution Control Board like Member secretary, Chief Environmental Officer & Head of the Central Laboratory. He is also an External Examiner for Visveswaraiiah Technological University affiliated Engineering Colleges. Presently he is Retired senior Environmental Officer Enviro care cell Head office and SEO Bangalore North Office, Bangalore.

#### Awards & Recognitions:

- i) “ParisaraRatna” during 2005 from NehruRastriaParisaraSamste(R).
- ii) “SwarnaBhushana” during 2006 from Karnataka PraghatiparaPrathistana
- iii) “Karnataka SevaPuraskara” during 2007 from Karnataka PraghatiparaPrathistana(R).
- iv) "Best Environmental officer" during 2018 from Rotary club and Lions club, Bengaluru and has completed his 35 years of service in Karnataka State Pollution Control Board.

#### **Overview of the Session:**

The definition of “sustainability” is the study of how natural systems function, remain diverse and produce everything it needs for the ecology to remain in balance. Sustainability and sustainable development focuses on balancing that fine line between competing needs - our need to move forward technologically and economically, and the needs to protect the environments in which we and others live. Sustainability is not just about the environment, it's also about our health as a society in ensuring that no people or areas of life suffer as a result of environmental legislation, and it's also about examining the longer term effects of the actions humanity takes and asking questions about how it may be improved. Economic Development, Social Development and Environmental Protection are the three pillars of sustainability. Environmental protection is the third pillar and to many, the primary concern of the future of humanity. It defines how we should study and protect ecosystems, air quality, integrity and sustainability of our resources and focusing on the elements that place stress on the environment. It also concerns how technology will drive our greener future; the EPA recognized that developing technology and biotechnology is key to this sustainability, and protecting the environment of the future from potential damage that technological advances could potentially bring.

Biodiversity—the diversity of life on Earth—is defined as the variability among living organisms from all sources, including diversity within species, between species, and of ecosystems. Biodiversity thus includes not only the millions of different species on Earth, it also consists of the specific genetic variations and traits within species (such as different crop varieties), as well as the various types of different ecosystems, marine and terrestrial, in which human societies live and on which they depend, such as coastal areas, forests, wetlands, grasslands, mountains and deserts. Over the course of time, human cultures have emerged and adapted to local environments, discovering, using and altering their biotic resources. Biodiversity is essential for sustainable development and human well-being. It underpins the provision of food, fibre and water; it mitigates and provides resilience to climate change; it supports human health, and provides jobs in agriculture, fisheries, forestry and many other sectors. Without effective measures to conserve biodiversity and use its components in a sustainable manner, the 2030 Agenda for Sustainable Development will not be achievable. Then we discussed about, Genetic diversity, so this refers to the variation of genes within species. There

occurs distinct populations of the same species, such as thousands of traditional rice varieties in India, and genetic variation within a single population. Species diversity refers to the variety of species within a region.

Ecosystem on the whole, plays a vital role, despite these vital roles in sustainable development, biodiversity and ecosystem services which supports people's lives and livelihoods continue to be degraded and lost at unprecedented rates. Biodiversity conservation is unlike any other sustainable issue, because loss of biodiversity is irreversible. Equally important is our reliance on biodiversity as a resource for human medicine. The conservation of specific information, their libraries and support systems should be of urgent concern given the current changes in extinction rates caused by human impacts.

Over the past few decades, a strong institutional and scientific process has been developed to support implementation of the Convention as well as its Protocols, supported by quantitative and qualitative environmental sciences that model, map and explore ecosystem dynamics, seek understanding of ecological impacts, and develop policy recommendations. Yet biodiversity loss continues at an alarming rate. This is arguably because its value as underpinning human well-being is not fully understood and adequately taken into account in public and private decision-making.

## **Day 2- Analysis Procedure of Drinking Water & Wastewater by Dr. Nagappa**

### **Speaker's Profile**

Dr. B Nagappa is a Former Senior Scientific Officer Karnataka State Pollution Control Board. He has done his B.Sc & M.Sc from Mysore University and Ph.d in Nanoscience: Environmental Applications from Bangalore University.

#### *Training/professional Experience :*

- i. July 2014: Noise monitoring and networking in India at Geonoca , Madrid, Spain
- ii. Jan –Feb 2008: Air quality assessment, emission inventory and source apportionment studies” held at Germany
- iii. Nov 2002: Training /workshop at US-EPA on WTQA (Waste Testing and Quality Assurance Programme, held at Washington DC.USA.
- iv. May 1986 to Feb 1987 : Training to Germany under Indo-German bilateral programme (Indo-GTZ ) on Advanced professional training

*Professional Affiliation:* Life Member- Electro Chemical Society of India

Life Member- Association of Analytical scientists of India

*Patent:* Patent application bearing No.261/DEL/2007 titled “Method of preparing nanocrystalline MgO and ZnO and removal of fluoride and arsenic from contaminated water” in the name of Department of Science and technology, Ministry of Science and Technology, Government of India, filed on 8th February 2007.

**PUBLICATIONS:** National journals: 15 papers, International journals -17 papers , Conference Papers – 22 papers

### **Overview of the Session:**

This session mainly focused on the analysis procedure that is carried on for drinking water as well as wastewater. Water is essential to life and a nominal supply of clean-safe drinking water is required for the sustenance of life. Concern regarding safe-clean drinking water commenced at the turn of the 20th century, when science coupled with technology unraveled the implications associated with contaminated drinking water. Today, in developed nations, it is standard practice to provide the populace with safe-reliable drinking water, as safe drinking water in most industrialized countries is recognized as a basic human right

and a cost effective measure of reducing disease (i.e., preventative medicine). In developed countries, drinking water quality guidelines and regulations are based on current, published-scientific research related to health effects, aesthetic effects, and operational considerations. All these important parameters aim at providing potable and palatable drinking water to reduce water borne diseases and foster healthy living. Briefly, the purpose of having drinking water quality guidelines and regulations is to ensure that all human beings within a country have access to safe drinking water. In developing countries, it is estimated that over 80% of disease is caused by contaminated drinking water and as a consequence, over 30% of work productivity is lost. Meaning, water is largely the cause of most disease and a considerable amount of work potential is compromised because of this.

Water quality parameters include chemical, physical and biological properties and can be tested or monitored based on the desired water parameters of concern. Parameters that are frequently sampled or monitored for water quality include temperature, dissolved oxygen, pH, conductivity, ORP and turbidity. However water monitoring may also include measuring total algae, ISEs or laboratory parameters such as BOD, titration or TOC.

Before any analysis is carried out, the first step is to collect the sample of proper size. The objective of sampling is to collect representative sample. Representative sample by means a sample in which relative proportions or concentration of all pertinent components will be the same as in the material being sampled. Moreover, the same sample will be handled in such a way that no significant changes in composition occur before the tests are made. The sample volume shall optimal small enough that it can be transported and large enough for analytical purposes. So once the sample is collected by following all the guidelines, the next step is to test it in the laboratory. In India, all the tests are carried out according to IS 3025. The procedures described in these standards are intended for the examination of waters of a wide range of quality, including water suitable for domestic or industrial supplies, surface water, ground water, cooling or circulating water, boiler water, boiler feed water, treated and untreated municipal or industrial wastewater, and saline water. The unity of the fields of water supply, receiving water quality, and wastewater treatment and disposal is recognized by presenting methods of analysis for each constituent in a single section for all types of waters.

## **Day 3 – Ozone Protection and Its Importance by Mr. D. R Kumaraswamy**

### **Speaker's Profile**

Sri. D.R. Kumaraswamy born on 02-08-1959 at Shivmogga, Shivmogga District, Karnataka, He graduated (B.E.Civil) at Davangere from GBDT College of Engineering, Mysore university in 1983 with first class with distinction. He completed his Master Degree (Environmental Engineering) from BVM College of Engineering, V.V. Nagar, Anand, Gujarat State.



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- iii) “Karnataka Seva Puraskara” during 2007 from Karnataka Praghatipara Prathistana(R).
- iv) "Best Environmental officer" during 2018 from Rotary club and Lions club, Bengaluru and has completed his 35 years of service in Karnataka State Pollution Control Board.

#### **Overview of the Session:**

The ozone layer is the part of the Earth's atmosphere which contains relatively high concentrations of ozone gas, which is an inorganic molecule with the chemical formula O<sub>3</sub>. Ozone is a pale blue gas with a pungent (chlorine-like) smell. Though relatively high, the concentration in this layer is still small in comparison to other gases in the stratosphere.

The Ozone layer absorbs most of the ultraviolet radiation reaching the earth from the sun. Ozone Layer in the atmosphere is thicker over the poles than over the equator. When the sun's rays split oxygen molecules into single atoms, Ozone is created in the atmosphere. These single atoms combine with nearby oxygen to form a three-oxygen molecule — Ozone.

Scientists discovered in the 1970s that the ozone layer was being depleted. Atmospheric concentrations of ozone vary naturally depending on temperature, weather, latitude and altitude, while substances ejected by natural events such as volcanic eruptions can also affect ozone levels. Ozone-depleting substances were mostly introduced in the 1970s in a wide range of industrial and consumer applications, mainly refrigerators, air conditioners and fire extinguishers. Ozone depletion is greatest at the South Pole. It occurs mainly in late winter and early spring (August-November) and peak depletion usually occurs in early October, when ozone is often completely destroyed in large areas. This severe depletion creates the so-called “ozone hole” that can be seen in images of Antarctic ozone, made using satellite observations. In most years, the maximum area of the hole is bigger than the Antarctic continent itself. Although ozone losses are less radical in the Northern Hemisphere, significant thinning of the ozone layer is also observed over the Arctic and even over continental Europe. Most of the ozone-depleting substances emitted by human activities remain in the stratosphere for decades, meaning that ozone layer recovery is a very slow, long process.

Ozone protects the Earth from harmful ultraviolet (UV) rays from the Sun. Without the Ozone layer in the atmosphere, life on Earth would be very difficult. Plants cannot live and grow in heavy ultraviolet radiation, nor can the planktons that serve as food for most of the ocean life. With a weakening of the Ozone Layer shield, humans would be more susceptible to skin cancer, cataracts and impaired immune systems.

Most man-made ozone-depleting substances are also potent greenhouse gases. Some of them have a global warming effect up to 14,000 times stronger than carbon dioxide (CO<sub>2</sub>), the main greenhouse gas. Therefore, the global phase-out of ozone depleting substances such as hydrochlorofluorocarbons (HCFCs) and chlorofluorocarbons (CFCs) has also made a significant positive contribution to the fight against climate change. On the other hand, the global phase-out has led to a large increase in the use of other types of gases, to replace ozone depleting substances in various applications. These fluorinated gases ('F-gases') do not damage the ozone layer but do have a significant global warming effect. Therefore, in 2016, Parties to the Montreal Protocol agreed to add the most common type of F-gas, hydrofluorocarbons (HFCs), to the list of controlled substances.

In order to control the increased depletion of Ozone and to curb its effects on the climate, a lot of measures have been initiated.

**The Montreal Protocol**, In 1987, to address the destruction of the ozone layer, the international community established the Montreal Protocol on ozone-depleting substances. It was the first international treaty to be signed by all countries of the world and is considered the greatest environmental success story in the history of the United Nations. The Montreal Protocol's objective is to cut down the production and consumption of ozone-depleting substances, in order to reduce their presence in the atmosphere and thus protect the Earth's ozone layer.

**EU regulation**, EU legislation on ozone-depleting substances is among the strictest and most advanced in the world. Through a series of regulations, the EU has not only implemented the Montreal Protocol but has often phased out dangerous substances faster than required. The current EU 'Ozone Regulation' (Regulation (EC) 1005/2009) contains a number of measures to ensure a higher level of ambition. While the Montreal Protocol regulates the *production* of these substances and their *trade* in bulk, the Ozone Regulation prohibits their *use* in most cases (certain uses are still



permitted in the EU). Moreover, it regulates not only substances in bulk, but also those contained in products and equipment. The EU Ozone Regulation also sets licensing requirements for all exports and imports of ozone-depleting substances and regulates and monitors not only substances covered by the Montreal Protocol (over 90 chemicals), but also some that are not covered (five additional chemicals called 'new substances').

***Impact of global action and remaining challenges:***

Global consumption of ozone-depleting substances has been reduced by some 98% since countries began taking action under the Montreal Protocol. As a result, the atmospheric concentration of the most aggressive types of ozone-depleting substances is falling and the ozone layer is showing the first signs of recovery. Nevertheless, the ozone layer is not expected to recover fully before the second half of this century. This is because once released, ozone-depleting substances stay in the atmosphere for many years and continue to cause damage.

Much remains to be done to ensure the continued recovery of the ozone layer and to reduce the impact of ozone-depleting substances on the Earth's climate.

Actions required globally to continue the recovery of the ozone layer are:

- Ensuring that existing restrictions on ozone-depleting substances are properly implemented and global use of ozone-depleting substances continue to be reduced.
- Ensuring that banks of ozone-depleting substances (both in storage and contained in existing equipment) are dealt with in an environmentally-friendly manner and are replaced with climate-friendly alternatives.
- Ensuring that permitted uses of ozone-depleting substances are not diverted to illegal uses.
- Reducing use of ozone-depleting substances in applications that are not considered as consumption under the Montreal Protocol.
- Ensuring that no new chemicals or technologies emerge that could pose new threats to the ozone layer (e.g. very short-lived substances).

## **Day 4- E-waste Management and Recycling by Mr. Venkatesha Murthy**

### **Speaker's Profile**

Mr. Venkatesha Murthy, renowned as Venky, has completed his M.Sc in Industrial Chemistry from MIT, Manipal, M. Tech in Process Metallurgy from NITK, Surathkal and M.B.A in International Marketing from Anglia, Ruskin, UK. He is the CEO of the VANS Group of Companies, headquartered in Singapore. With a passion and vision of India, he has set up a subsidiary in Bangalore-



India's 1<sup>st</sup> integrated e-Waste recycling company with a PAN India presence. Mr. Venky is widely recognized across the globe for his path-breaking and visionary contributions in e-Waste Management using modern and state-of-the-art technologies and approaches. He plays a pioneering role as a social-environmentalist and corporate leader by uplifting the life-threatened conditions of informal players into a sound formal system. Intense passion and forethought for our PLANET, Venky- a visionary leader dedicated over 25 years of his experience in the area of WEEE Management, Environment, Human Values and strong ethical practices. He has ramified the transferring of knowledge, customized technologies, processes , training and established businesses on international arena.

#### **Achievements:**

- i. Executive Board of Director of SERI (R2), USA
- ii. UNEP-APO Expert to conduct EEE- Resource workshop for ASEAN Countries
- iii. Steering Committee Member of World Recycling Forum, Switzerland
- iv. International Steering Committee Member of IERC/ICM, Switzerland
- v. Speaker of ISRI (Institute of Scrap Recycling Insitute), USA
- vi. Academy Board Member of Amity Business School, Singapore
- vii. Member of Technology & Innovation Committee, Singapore
- viii. Member of Waste Management Committee, Singapore
- ix. Ex-Exco Member of WMRAS, Singapore
- x. Expert Speaker of International Conferences

## **Overview of the Session:**

In India, the quantity of “e-waste” or electronic waste has now become a major problem. Disposal of e-waste is an emerging global environmental and public health issue, as this waste has become the most rapidly growing segment of the formal municipal waste stream in the world. E-waste or Waste Electrical and Electronic Equipment (WEEE) are loosely discarded, surplus, obsolete, broken, electrical or electronic devices. In India most of the waste electronic items are stored at households as people do not know how to discard them. This ever-increasing waste is very complex in nature and is also a rich source of metals such as gold, silver, and copper, which can be recovered and brought back into the production cycle. So e-waste trade and recycling alliances provide employment to many groups of people in India. Around 25,000 workers including children are involved in crude dismantling units in Delhi alone where 10,000–20,000 tonnes of e-waste is handled every year by bare hands. Improper dismantling and processing of e-waste render it perilous to human health and our ecosystem. Therefore, the need of proper e-waste management has been realized. It is necessary to review the public health risks and strategies to combat this growing menace.

In India, solid waste management, with the emergence of e-waste, has become a complicated task. The total waste generated by obsolete or broken down electronic and electrical equipment was estimated to be 1,46,000 tonnes for the year 2005, which is expected to exceed 8,00,000 tonnes by 2012. However, according to the Greenpeace Report, in 2007, India generated 380,000 tonnes of e-waste. Only 3% of this made it to the authorized recyclers’ facilities. One of the reasons for this is that the India has also become a dumping ground for many developed nations. The Basel Action Network (BAN) stated in a report that 50-80% of e-waste collected by the USA is exported to India, China, Pakistan, Taiwan, and a number of African countries. India is one of the fastest growing economies of the world and the domestic demand for consumer durables has been skyrocketing. From 1998 to 2002, there was a 53.1% increase in the sales of domestic household appliances, both large and small all over the world. Another report estimated that in India, business and individual households make approximately 1.38 million personal computers obsolete every year, accelerating the rate of e-waste generation, which is around 10%, annually going to affect environmental health indicators.

Electronic equipments contain many hazardous metallic contaminants such as lead, cadmium, and beryllium and brominated flame-retardants. The fraction including iron, copper, aluminum, gold, and other metals in e-waste is over 60%, while plastics account for about 30% and the hazardous pollutants comprise only about 2.70%. Of many toxic heavy metals, lead is the most widely used in electronic devices for various purposes, resulting in a variety of health hazards due to environmental

contamination. Lead enters biological systems via food, water, air, and soil. Children are particularly vulnerable to lead poisoning – more so than adults because they absorb more lead from their environment and their nervous system and blood get affected. It is found that the e-waste recycling activities had contributed to the elevated blood lead levels in children living in China, which is one of the popular destinations of e-waste. This was due to that fact that the processes and techniques used during the recycling activities were very primitive. Various studies have reported the soaring levels of toxic heavy metals and organic contaminants in samples of dust, soil, river sediment, surface water, and groundwater of Guiyu in China. In the same areas, the residents had a high incidence of skin damage, headaches, vertigo, nausea, chronic gastritis, and gastric and duodenal ulcers. Further it was found that the blood lead levels of children were higher than the mean level in China, and there was no significant difference between boys and girls. It was found that e-waste recycling operations were causing higher levels of polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans (PCDD/Fs) in the environment as well as in humans. Body burdens of people in hair, human milk, and placenta from the e-waste processing site showed significantly higher levels of polychlorinated dibenzo-*p*-dioxins and polychlorinated dibenzofurans (PCDD/Fs) than those from the non-processing site. There is paucity of data on burdens of heavy metal exposure on human body in India. A large number of workers including small children are exposed to different dismantling activities of e-waste. Although findings of these studies cannot be generalized to India but these are enough to alarm and strongly suggest to be replicating in occupational settings in India. There are no data available about the health implications of these workers. They might be ruining their lives in the lack of appropriate knowledge.

For the recycling of e-waste, India heavily depends on the unorganized sector as only a handful of organized e-waste recycling facilities are available. Over 95% of the e-waste is treated and processed in the majority of urban slums of the country, where untrained workers carry out the dangerous procedures without personal protective equipment, which are detrimental not only to their health but also to the environment. Recycling and treatment facilities require a high initial investment, particularly those fitted with technologically advanced equipments and processes. For the dismantling of one computer piece, these workers only get Rs. 5 or 10. For such a small amount, workers ruin their lives. Such “backyard recyclers” do not have wastewater treatment facilities, exhaust-waste gas treatment, and personal health protection equipment. Therefore, health risk assessments are also required for the analysis of the consequences and of inappropriate management of end-of-life electronic wastes in developing countries.

In Environmental (Protection) Act 1986, the “polluter pays principle” is enacted to make the party responsible for producing pollution responsible for paying for the damage done to the natural environment. In international environmental law, it is mentioned in principle 16 of the Rio Declaration on Environment and Development. Polluter pays is also known as extended producer responsibility (EPR). Under the Environment (Protection) Act 1986, central and state governments can enact legislations to safeguard the environment and people from exposure to toxic and hazardous nature of waste. Any violation of the provision of this act or notified rules is liable for punishment. Such penalty can be imposed on the violator if specific rules and regulations on e-waste are violated. CPCB India is finalizing the set of rules and most recently issued a formal set of guidelines for proper and eco-friendly handling and disposal of the electronic waste. The Ministry of Environment and Forests is now processing the rules framed by electronics equipment manufacturers with the help of NGOs. According to the new guidelines issued by CPCB in 2007, e-waste is included in schedules 1, 2, and 3 of the “Hazardous Waste (Management and Handling) Rules 2003” and Municipal Solid Waste Management Rule, 2000. Each manufacturer of a computer, music system, mobile phone, or any other electronic gadget will be “personally” responsible for the final safe disposal of the product when it becomes a piece of e-waste. Department of Information Technology (DIT), Ministry of Communication and Information Technology, has also published and circulated a comprehensive technical guide on “Environmental Management for Information Technology Industry in India.” Demonstration projects have also been set-up by the DIT at the Indian Telephone Industries for the recovery of copper from Printed Circuit Boards.

## **Day 5- Air Pollution and Control & Air Quality Index by Mr. Ramesh Kumar B.N**

### **Speaker's Profile**

Mr. Ramesh Kumar B.N currently is the Chairman of Prakruthi Institute of Environmental Studies. He has completed his B.E in Civil Engineering from UVCE, Bangalore University in the year 1982.

#### *Certificate Courses attended/Visits:*

- 2020: Certified lead Auditor under ISO 14001/2015.
- 2011: Vist to Switzerland, Germany and France under joint Programme on Co Incineration in Cement Industries organized by CII, India.
- 2001: Advanced Training Program on Environmental Compliance organized by CSE, New Delhi.
- 1996: Management and Pedagogical Training at Denmark and at other European countries related to Env, Training under Indo Danish programme.

#### *Experience:*

- Served in the Karnataka State Pollution Control Board from 1984 to 2019 in various positions.
- Retired from the Board Service as Chief Environmental Officer in June 2019.
- Having Experience in technical, Legal, Administrative, Laboratory and Management aspects relating to compliance of Environmental Pollution Control Acts and Rules.

#### *Special positions held in KSPCB:*

- Administrative Officer in KSPCB.
- Law Officer
- IN charge of Buildings Constructions and Laboratory.
- Member convenor of Technical Advisory Committee.
- Member of Committee constituted by NGT under the chairmanship of Justice Santosh Hegde.

### **Overview of the Session:**

Air pollution refers to any physical, chemical or biological change in the air. It is the contamination of air by harmful gases, dust and smoke which affects plants, animals and humans drastically.

There is a certain percentage of gases present in the atmosphere. An increase or decrease in the composition of these gases is harmful to survival. This imbalance in the gaseous composition has resulted in an increase in earth's temperature, which is known as global warming.

Air pollution has resulted in several respiratory disorders and heart diseases among humans. The cases of lung cancer have increased in the last few decades. Children living near polluted areas are more prone to pneumonia and asthma. Many people die every year due to the direct or indirect effects of air pollution. Apart from this, air pollution also leads to Global Warming. Due to the emission of greenhouse gases, there is an imbalance in the gaseous composition of the air. This has led to an increase in the temperature of the earth. This increase in earth's temperature is known as global warming. This has resulted in the melting of glaciers and an increase in sea levels. Many areas are submerged underwater. The burning of fossil fuels releases harmful gases such as nitrogen oxides and sulphur oxides in the air. The water droplets combine with these pollutants, become acidic and fall as acid rain which damages human, animal and plant life. The release of chlorofluorocarbons, halons, and hydro chlorofluorocarbons in the atmosphere is the major cause of depletion of the ozone layer. The depleting ozone layer does not prevent the harmful ultraviolet rays coming from the sun and causes skin diseases and eye problems among individuals. The air pollutants suspend on the water bodies and affect the aquatic life. Pollution also compels the animals to leave their habitat and shift to a new place. This renders them stray and has also led to the extinction of a large number of animal species.

It is possible to control the effects caused due to air pollution. People should avoid using vehicles for shorter distances. Rather, they should prefer public modes of transport to travel from one place to another. This not only prevents pollution, but also conserves energy. A large number of fossil fuels are burnt to generate electricity. Therefore, do not forget to switch off the electrical appliances when not in use. Thus, you can save the environment at the individual level. Use of energy-efficient devices such CFLs also controls pollution to a greater level. The use of solar, wind and geothermal energies reduce air pollution at a larger level. Various countries, including India, have implemented the use of these resources as a step towards a cleaner environment.

Apart from the above said measures, the other control measures are: By minimizing and reducing the use of fire and fire products. Since industrial emissions are one of the major causes of air pollution, the pollutants can be controlled or treated at the source itself to reduce its effects. For example, if the reactions of a certain raw material yield a pollutant, then the raw materials can be substituted with other less polluting materials. Fuel substitution is another way of controlling air pollution. In many parts of India, petrol and diesel are being replaced by CNG – Compressed Natural Gas fueled vehicles. These are mostly adopted by vehicles that aren't fully operating with ideal emission engines. Although there are many practices in India, which focus on repairing the quality of air, most of them are either forgotten or not being enforced properly. There are still a lot of vehicles on roads which haven't been

tested for vehicle emissions. Another way of controlling air pollution caused by industries is to modify and maintain existing pieces of equipment so that the emission of pollutants is minimized. Sometimes controlling pollutants at the source is not possible. In that case, we can have process control equipment to control the pollution. A very effective way of controlling air pollution is by diluting the air pollutants. The last and the best way of reducing the ill effects of air pollution is tree plantation. Plants and trees reduce a large number of pollutants in the air. Ideally, planting trees in areas of high pollution levels will be extremely effective.

**Air Quality Index:** AQI is the air quality index; it gives you the index value that what is the current pollution status in the city, how polluted the air currently is. Different levels of AQI symbolises different things like on prolonged exposure to 'poor' AQI, individuals might witness breathing problem.

There are eight pollutants namely particulate matter (PM) 10, PM2.5, Ozone (O<sub>3</sub>), Sulphur dioxide (SO<sub>2</sub>), nitrogen dioxide (NO<sub>2</sub>), carbon monoxide (CO), lead (Pb) and ammonia (NH<sub>3</sub>) act as major parameters in deriving the AQI of an area, the concentrations of these eight parameters are measured and then based on the ambient concentrations, corresponding standards and likely health impact, a sub-index is calculated for each of these pollutants. The worst sub-index determines the overall AQI for the city and the pollutant whose sub-index is the worst becomes the prominent pollutant. As per CPCB's (Central Pollution Control Board) air quality standards, AQI is categorised into six parts. AQI between 0-50 is considered 'good', 51-100 'satisfactory', 101-200 'moderate', 201-300 'poor', 301-400 'very poor', and between 401-500 'severe'. All the eight pollutants may not be monitored at all the locations. Overall AQI is calculated only if data is available for a minimum three pollutants out of which one should necessarily be either PM2.5 or PM10. Similarly, a minimum of 16 hours of data is considered necessary for calculating sub-index. As the AQI value increases, health impacts become serious. For instance, while under satisfactory AQI, sensitive people might witness minor breathing discomfort, severe AQI may cause respiratory impact even on healthy people, and serious health issue in people with existing respiratory issues. PM10 gets filtered at the top of your respiratory system that is nose. PM2.5 is the hazardous of the lot. 70-80 per cent of the health issues are caused by PM2.5 only as it crosses body's natural barriers, and enter the lungs. Ozone is the second most dangerous parameter as it aggravate lung diseases such as asthma, emphysema, and chronic bronchitis. Other gases too lead to cardiovascular diseases like heart attack and pulmonary diseases such as asthma. The problem is, air pollution masks and purifiers currently we have, do not protect you from gases. The only way to evade from these gases is to control their sources.



## **Day 6- Selection of STP Technologies and zero Liquid Discharge- A Case Study by Dr. Ananth Kodavasal**

### **Speaker's Profile**

Dr. Ananth received his B.Tech in Chemical Engineering from IIT Madras, and his PhD from Vanderbilt University, USA. At Vanderbilt, he worked under the tutelage of the legendary WW Eckenfelder Jr., the "Godfather" of industrial wastewater treatment. Subsequently, he worked at Hindustan Dorr Oliver and Voltas International Ltd. in Bombay as an environmental engineer, before founding Ecotech in 1986. He is a sought-after speaker on wastewater treatment, and is the



author of the "STP Guide" handbook published by the Karnataka State Pollution Control Board. Dr. Ananth is an avid reader and his favorite authors include Bill Bryson and Louis L'Amour. His areas of expertise are Water Resources management, Wastewater Management Treatability studies, Operation & Maintenance services, Eco Management and Audit Systems, Professional Development Programs, etc. Over 1000 clients in India and abroad for various services. He's certified Lead Auditor for ISO 14001 EMS.

### **Overview of the Session:**

Sewage treatment is the process of removing contaminants from wastewater, primarily from household sewage. It includes physical, chemical, and biological processes to remove these contaminants and produce environmentally safe treated wastewater (or treated effluent). A by-product of sewage treatment is usually a semi-solid waste or slurry, called sewage sludge that has to undergo further treatment before being suitable for disposal or land application.

Sewage treatment may also be referred to as wastewater treatment, although the latter is a broader term which can also be applied to purely industrial wastewater. Surface runoff and effluents from small-scale industries or pre-treated industrial wastewaters are sometimes routed through municipal sewage treatment plants when the environmental advantages of treatment outweigh the disadvantages of reduced treatment efficiency. Dilution of sewage by storm water runoff or industrial wastewater with low biochemical oxygen demand (BOD) decreases the efficiency of secondary treatment; because secondary treatment ecosystems require a minimum concentration of biologically decomposable waste to sustain the ecosystem population.

Effluent is typically discharged at a BOD concentration equal to that required minimum, but it may be diluted to lower concentrations. In either case, the total mass of BOD discharged to receiving waters is equal to the discharge concentration times the flow volume; so dilution prior to secondary treatment reduces the waste concentration available to feed the ecosystem, and larger volumes of dilute flow can discharge a greater mass of BOD. Industrial wastewater may contain pollutants which cannot be removed by conventional sewage treatment; and variable flow of industrial waste associated with production cycles may upset the population dynamics of secondary sewage treatment ecosystems. Sewage can be treated close to where the sewage is created, which may be called a "decentralized" system or even an "on-site" system (in septic tanks, bio filters or aerobic treatment systems). Alternatively, it can be collected and transported by a network of pipes and pump stations to a municipal treatment plant. This is called a "centralized" system, although the borders between decentralized and centralized can be variable.

Sewage is generated by residential, institutional, commercial and industrial establishments. It includes household waste liquid from toilets, baths, showers, kitchens, and sinks draining into sewers. In many areas, sewage also includes liquid waste from industry and commerce. The separation and draining of household waste into grey water and black water is becoming more common in the developed world, with grey water being permitted to be used for watering plants or recycled for flushing toilets.

Sewage may include storm water runoff. Sewerage systems capable of handling storm water are known as combined sewer systems. This design was common when urban sewerage systems were first developed, in the late 19th and early 20th centuries. Combined sewers require much larger and more expensive treatment facilities than sanitary sewers. Heavy volumes of storm runoff may overwhelm the sewage treatment system, causing a spill or overflow. Sanitary sewers are typically much smaller than combined sewers, and they are not designed to transport storm water. Backups of raw sewage can occur if excessive infiltration/ inflow (dilution by storm water and/ or groundwater) is allowed into a sanitary sewer system. Communities that have urbanized in the mid-20th century or later generally have built separate systems for sewage (sanitary sewers) and storm water, because precipitation causes widely varying flows, reducing sewage treatment plant efficiency.

As rainfall travels over roofs and the ground, it may pick up various contaminants including soil particles and other sediment, heavy metals, organic compounds, animal waste, and oil and grease. Some jurisdictions require storm water to receive some level of treatment before being discharged directly into waterways. Examples of treatment processes used for storm water include retention basins, wetlands, and buried vaults with various kinds of media filters, and vortex separators.

A ZLD treatment system **utilizes advanced technological water treatment processes to limit liquid waste at the end of your industrial process to, as the name suggests, zero.**

An efficient and well-designed ZLD treatment system should be able to:

- handle variations in waste contamination and flow
- allow for required chemical volumes adjustments
- recover around 95% of your liquid waste for reuse
- treat and retrieve valuable byproducts from your waste (i.e. salts and brines)
- produce a dry, solid cake for disposal

The exact components of a ZLD treatment system will largely depend on (1.) the volume of dissolved material present in the waste, (2.) the system's required flow rate, and (3.) what specific contaminants are present. But in general, a basic ZLD treatment system typically includes some type of:

- clarifier and/or reactor to precipitate out metals, hardness, and silica
- chemical feed to help facilitate the precipitation, flocculation, or coagulation of any metals and suspended solids
- filter press to concentrate secondary solid waste after pretreatment or alongside an evaporator
- ultrafiltration (UF) to remove all the leftover trace amounts of suspended solids and prevent fouling, scaling, and/or corrosion down the line of treatment
- reverse osmosis (RO) to remove the bulk of dissolved solids from the water stream in the primary phases of concentration
- brine concentrators to further concentrate the reject RO stream or reject from electrodialysis to further reduce waste volume
- evaporator for vaporizing excess water in the final phases of waste concentration before crystallizer.
- crystallizer to boil off any remaining liquid, leaving you with a dry, solid cake for disposal

Specific treatment processes vary, but a typical ZLD treatment facility process will usually include the following steps:

*Pretreatment and conditioning* : Pretreatment is used to remove simple things from the wastewater stream that can be filtered or precipitated out, conditioning the water and reducing the suspended solids and materials that would otherwise scale and/or foul following treatment steps. Sometimes a slight pH adjustment will help coagulate the particles, as well. When coagulation is complete, the water enters a **flocculation** chamber where the coagulated particles are slowly stirred together with long-chain

polymers (charged molecules that grab all the colloidal and coagulated particles and pull them together), creating visible, settleable particles that resemble snowflakes. The gravity settler (or **sedimentation** part of the ZLD treatment process) is typically a large circular device where flocculated material and water flow into the chamber and circulate from the center out. In a very slow settling process, the water rises to the top and overflows at the perimeter of the clarifier, allowing the solids to settle down to the bottom of the clarifier into a sludge blanket. The solids are then raked to the center of the clarifier into a cylindrical tube where a slow mixing takes place and the sludge is pumped out of the bottom into a sludge-handling or dewatering operation. The settlers can also be designed using a plate pack for smaller footprint. Depending on the material in the feed, additional reactors or chemistry may be required for the reduction of metals or silica. Careful consideration must be given to the pretreatment step for a successful ZLD system.

**Ultrafiltration (UF)** can also be used after the clarifiers instead of the gravity sand filter, or it can replace entire clarification process altogether. Membranes have become the newest technology for treatment, pumping water directly from the wastewater source through the UF (post-chlorination) and eliminating the entire clarifier/filtration train.

Out of this process comes a liquid that is then filter-pressed into a solid, resulting in a solution much lower in suspended solids and without the ability to scale up concentration treatment.

*Phase-one concentration* : Concentrating in the earlier stages of ZLD is usually done with membranes like reverse osmosis (RO), brine concentrators, or electrodialysis. The **RO train** will capture the majority of dissolved solids that flow through the process, but as mentioned in a prior article about common problems with ZLD, it's important to flow only pretreated water through the RO system, as allowing untreated water to go through the semipermeable membranes will foul them quickly. **Brine concentrators**, on the other hand, are also used to remove dissolved solid waste but they are usually able to handle brine with a much higher salt content than RO. They are pretty efficient for turning out a reduced-volume waste. **Electrodialysis** can also be used at this part of the ZLD treatment system. It's a membrane process that uses positively or negatively charged ions to allow charged particles to flow through a semipermeable membrane and can be used in stages to concentrate the brine. It is **often used in conjunction with RO** to yield extremely high recovery rates.

Combined, these technologies take this stream and concentrate it down to a high salinity while pulling out up to 60–80% of the water.

*Evaporation/crystallization:* After the concentration step is complete, the next step is generating a solid, which is done through **thermal processes or evaporation**, where you evaporate all the water off, collect it, and reuse it. Adding acid at this point will help to neutralize the solution so, when heating it, you can avoid scaling and harming the heat exchangers. **Deaeration** is often used at this phase to release dissolved oxygen, carbon dioxide, and other noncondensable gases. The leftover waste then goes from an evaporator to a **crystallizer**, which continues to boil off all the water until all the impurities in the water crystallize and are filtered out as a solid.

*Recycled water distribution/solid waste treatment:* If the **treated water** is being reused in an industrial process, it's typically pumped into a holding tank where it can be used based on the demands of the facility. The ZLD treatment system should have purified the water enough to be reused safely in your process. The **solid waste**, at this point, will enter a dewatering process that takes all the water out of the sludge with filter or belt presses, yielding a solid cake. The sludge is put onto the press and runs between two belts that squeeze the water out, and the sludge is then put into a big hopper that goes to either a landfill or a place that reuses it. The water from this process is also typically reused.



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(Civil Engineering UG Program is NBA accredited for 3 Years from 2020)



# **Department of Civil Engineering**

**Event Type: Webinar**

**Event Title: “OPPORTUNITY – Move with confidence from INSTITUTION to INDUSTRY” by Medini**

**Date: 04-11-2020**

**Coordinator’s:**

**Mrs. Gana G S, Assistant Professor**  
**Mrs. Mrinal B Assistant Professor**

**Dr. Bharathi Ganesh**  
**Prof. & Head**  
**Dept of Civil Engg**

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## Department of Civil Engineering

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*Webinar on*

**OPPORTUNITY – Move with confidence from  
INSTITUTION to INDUSTRY**



# INVITATION

**Speaker : Pradeep Kallur.**  
Technical Director & MD  
**MEDINI,**  
*an ISO Certified Company*

**Online E-Certificate Program**

**Date & Time**

04-11-2020 10:15 am -12 noon

**All are cordially invited**

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[join/19%3a42223cd99c414f8ebf052cec67a0e5bc%40thread.tacv2/1600919444905?context=%7b%22Tid%22%3a%226097692a-0a7b-4e97-be15-92710bdb2994%22%2c%22Oid%22%3a%2233fee72c-5785-4aa5-89f2-29208dcad20d%22%7d](https://teams.microsoft.com/l/meetup-join/19%3a42223cd99c414f8ebf052cec67a0e5bc%40thread.tacv2/1600919444905?context=%7b%22Tid%22%3a%226097692a-0a7b-4e97-be15-92710bdb2994%22%2c%22Oid%22%3a%2233fee72c-5785-4aa5-89f2-29208dcad20d%22%7d)

## Overview

MEDINI is a leading provider of design technology and services to engineering, construction and architecture professionals. With over many years of experience, they provide the expertise training and support Academia on various prospectus.

Medini is partnered with the world's leading providers of CAD, CAE, PLM software, hardware, 3D printers such as Autodesk, PTC, Ansys, Adobe, Bentley, Primavera, Microsoft.

The company participates and contribute to design technology and services in engineering and construction for our students.

Mr.Pradeep Kallur delivered a session on importance and use of softwares to our 5<sup>th</sup> sem students.

The softwares and their uses in construction field, to design the structures. The updated software's and the present market situation how student can utilise them and be industry ready.



Mr. Pradeep Kallur has a vast experience. He has TECHNICAL MANAGER served from JUN 2006-APRIL 2008 · Pradeep kallur gave technical support and training for projects, workflow- methodology and process for students and several privately practicing companies. · Handling technical issues with the academic customers · Proper solutions to the corporates for their requirement on CAD products.

DIRECTOR | AUTODESK LEARNING PARTNER | MEDINI | JUNE 2008 –TILL DATE.

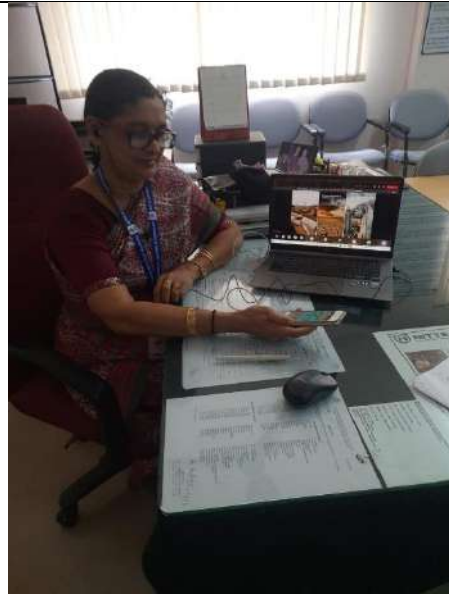
As the Head of the Education & Design Consultant, I am a part of Leadership team and lead the team that include Business development, Technical functions, Marketing, Strategic partnerships and alliances to drive adoption of Autodesk and Bentley Technology in the education segment across India. In addition, I am responsible for managing the Training and Certification business across India. · Training and support for a project- from conception to delivery of working drawings on site. Advise on setting up company standards and its work methodology. · Associated with well-known institution's for their content development and course curriculum. · Catering to the market needs to develop Autodesk & Bentley Training & Certification, and working with Academic to ensure adoption of latest design technology in the



education ecosystem. · Mentoring the technical team to execute the quality training and improvising on new technical skills. · Identifying and developing new business opportunities for academics · Creating proper platform to execute the design solutions · Implemented 50+ skill development or FDP all over India. · Part of 150+ design projects across India. · Working with BMS School of Architecture from 2015 as a part of Computer Application in Architecture and executing all activities related to Digital Lab. Responsible for complete Autodesk Products and digital presentation skills at institute. · Working with SIT Tumakuru Civil department since 2013 for the Building Information Modeling in constructions and BIM in Infrastructure into their curriculum, till date. · Working with SIT Tumakuru Architecture department since 2013 implementing Building Information Modeling, BIM for Architecture in curriculum, till date. · Visiting faculty at RV college of Architecture since 2015. · Part of HKE Society, Kalaburagi for their CAD products and member of BoS. · Responsible for regular programs on digital technology at BEC Bagalkot since 2008. · Executed 150+ Workshops, Seminars in institutes and industry. · Responsible for Center of Excellence (COE), Buildspace, Nodal center by collaborating with institutes. This resulted in establishing digitalization as a thought leadership position in the education segment. · Support to the institutions for accreditation's as NAAC, NBA etc. Page 2 DIRECTOR | BENTLEY INSTITUTE PROGRAM | MEDINI | FEB 2016 – TILL DATE. · Partnership agreement signed with 50+ institutions for upgradation of tools and collaboration of it to the academics. This resulted in increasing the placement activities from 12% to 42%. Helped establish a structural CAD lab at institutions, for research. DIRECTOR-DESIGN SERVICES | MEDINI | JUNE 2008 –TILL DATE. Working with many of the private and government organization for there interior and exterior designs. ACHIVEMENTS As a leader of a team · Partnered with Autodesk, Bentley Institute, Microsoft, Adobe & Dassault for training, certification & Academic solutions · Having MOU with more than 50+ technical colleges across INDIA · Placed more than 1000+ students all over in India · Maintained ISO for Medini since 2011. · 2014-15 Autodesk appreciation award. · 2015-16 Best training institute in SAARC · 2016-17 Best training institute in SAARC - Autodesk · 2016-17 Autodesk appreciation award for the highest training, certifying & recruiting. · 2017-18 Best training institute in SAARC- Autodesk · 2017-18 Best training institute in SAARC- Bentley About the Company: The company vision is to participate and contribute to design technology and services in engineering, construction and architecture professionals. We take pride in providing our Technical Excellence & Expertise in engineering consultancy with Modern design, Quality and Satisfaction to our clients. With over years of experience & knowing the latest trends, we provide the expertise services in manufacturing, building design, construction, outsourcing &

training support to help Corporate & Academia to realize the full power of their design technology. We are partnered with the world's leading providers of CAD, CAE, PLM software, hardware, 3D printers such as Autodesk, PTC, Ansys, Trimble Sketchup, Adobe, Bentley, Oracle, Microsoft. Joining hands with many of the industry to provide local service with the support of global resources. These relationships allow us to deliver complete end to end solutions tailored to meet unique requirements. I acknowledge that the above-mentioned information is true to the best of my knowledge.

# Gallery



## Participants List

Sl.NO	Name
1	Ayush Dahal
2	T Yashika
3	Swati Kulkarni
4	shubham mandal
5	Vishnu Priya V
6	Prajwal Nayak
7	Shashibhooshan soppimath
8	Jidan Mahara
9	Yashaswini D
10	MOHD ALI
11	Veda shree gl
12	PRUTHVI M
13	Kushal tamang
14	Sandip singh
15	RAHUL.B.M
16	Raghu H V
17	Varun A Bandakla
18	Michana Lama
19	RUTHIK S
20	Malappa pujari
21	Rakshitha Cv
22	Manoj Walmiki
23	Anil Kumar
24	badhri nath
25	Archana Hegge
26	Yashwanth G
27	Michana Lama
28	Mritunjay kumar
29	Avinash Reddy
30	Anirudh Ramesh
31	Mritunjay kumar sinha
32	ashwin.m
33	Mahaboob Patel
34	Chandan B
35	Ritesh Yadav
36	MANOHAR YS
37	PAVAN P
38	Srinatha G S
39	Hruthvik S
40	MOHAMMADRIYAZ

41	Mowlya L
42	Monika B R
43	Hitanshi Gupta
44	Charitha N
45	Relvin Noronha
46	Shashank C R
47	Akshatha T M
48	Darshangowda M L
49	Anup V
50	Mehraj ud din yattoo
51	Harshith Lavanya kumar
52	Aashma Upreti
53	Manasa A
54	Anjali R K
55	Akshay P G
56	Sainath Yakathpure
57	Dhanush B S
58	Apoorva I c
59	Suresh I
60	Padmajarani A. V
61	Syed Arfath Ali
62	B S Vaibhavi
63	Palkurtisunil
64	Prajwal Ramesh Gowda
65	Abishek rawal
66	GAGANA.C
67	Santosh
68	Yukta Kyatannavar
69	NISCHITHA BH
70	Ankith B C
71	Nanditha E Naik
72	Babu K R
73	Varchas G
74	Amit Kumar Sah
75	BHOOMIKA S





# REPORT

## Smart Cities- Concept, Strategies, Opportunities and Challenges

Date: 05<sup>th</sup> January-09<sup>th</sup> January, 2021

Nitte Meenakshi Institute of Technology

AICTE TRAINING AND LEARNING ACADEMY, PUNE

# ATAL workshop on Smart Cities- Concept, Strategies, Opportunities and Challenges

## **SMART CITIES- CONCEPT, STRATEGIES, OPPORTUNITIES AND CHALLENGES**

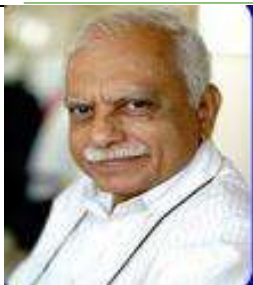
5-Days ATAL sponsored workshop was conducted from 05<sup>th</sup> to 09<sup>th</sup> January 2021 in which around 197 participants had enrolled from different parts of the country.

The speakers for the 5-day workshop on “SMART CITIES- CONCEPT, STRATEGIES, OPPORTUNITIES AND CHALLENGES” were:

Dr. N Gopalakrishnan, Director, CSIR-CBRI, Roorkee, Uttarakhand



Mr. B.S.C Rao, Senior Consultant & Practising Civil Engineer, Bangalore



### **EDUCATION**

- **Bachelor of Technology**- First Class, Civil Engineering(1971),
- **Master of Technology** -First Class, Civil (Structural) Engineering(1973)

Both Degrees from the premier Indian Institute of Technology, Madras (now Chennai).

### **EXPERIENCE**

Over 47 years of experience in the planning, design, construction, and management of large engineering, industrial and infrastructure projects such as urban transport and mass rapid transit (MRT) systems, thermal power plants, paper plants and portside facilities. Over 36 years' experience in Mass Transit Systems and have worked on the Singapore and Taipei MRT projects as well as several Indian MRT projects. Former Executive Director of Bangalore Mass Rapid Transit Ltd. (BMRTL) (precursor to the current BMRCL) and was responsible for planning and structuring the erstwhile Elevated Light Rail Transit System Project (ELRTS) (precursor to, and which forms the basis for, the Namma Metro Project, now being executed).



Er. Abhishek Chhabra, Market Development Manager, Thomas Bell Wright International Consultants, Abudhabi



Currently working as Market Development Manager in Thomas Bell-Wright International Consultants. He joined the company in 2013 and has been the driving force behind the expansion of the fire compliance activities into new markets. An engineer with a post-graduate diploma in finance, Abhishek brings with him valuable experience from other, larger TIC (Testing, Inspection & Certification) companies.

He has been advocating the need for compliance to standards for improved safety and quality across industries for most of the last 18 years. Along with helping certification bodies expand their horizons of business for over a decade, he has been writing articles and presenting at various forums about mandatory and voluntary quality and safety compliance activities. He also owns and drives a blog called Gurus of Testing, Inspection and Certification ([www.tic.guru](http://www.tic.guru)) aimed at expanding the understanding of conformity across the world.

Dr. D. R. Ravi, Environmental Officer, Karnataka State Pollution Control Board (KSPCB), Bangalore



Dr. Ravi D.R. with Ph.D in Environmental Economics from University of Mysore through Institute for Social & Economic Change (ISEC), Bangalore & M. Tech in Environmental Engineering from Sri Jayachamarajendra College of Engineering, Mysore (under VTU, Belgaum) is a seasoned professional with over 27 years' of rich experience involving Monitoring, Liaison, Treatment Plant Operations, Environmental Management, Maintenance Management, Urban Governance, Statutory Applications with extensive and diverse experience in Private and Government agencies.

Presently working as Environmental Officer at Karnataka State Pollution Control Board (KSPCB), Bangalore

Dr. G. Raghava, Professor, NMIT, Bangalore



**Education:**

- B.E. in Civil Engineering from Sri Jayachamarajendra College of Engineering, University of Mysore (1980);
- M.Tech. in Industrial Structures from the Karnataka Regional Engineering College, now NITK, Surathkal, University of Mysore (1984); and
- Ph.D. in Structural Engineering from the College of Engineering Guindy, Anna University, Chennai (1999).

After a brief stay at the Karnataka Regional Engineering College as Lecturer in the year 1983, he joined Structural Engineering Research Centre, Chennai, one of the national laboratories under the Council of Scientific & Industrial Research, Government of India, as Scientist in June 1983. On completion of an illustrious service of 34 years, he retired in July 2017 as Chief Scientist and Head of the Fatigue & Fracture Laboratory of CSIR-SERC. The Fatigue & Fracture Laboratory is recognised as a state-of-the-art national facility for specialized experimental investigations on large size structural components and structures under real life loads and environment. Since July 2019, Dr. Raghava is serving as Professor in the Department of Civil Engineering, Nitte Meenakshi Institute of Technology, Yelahanka, Bengaluru.

Dr. V. Ramachandra, Functional Head, Ultratech Cements Ltd. Mumbai



**Education:**

- BE (Civil) from University Visvesvaraya College of Engg. (UVCE), Bangalore
- M. Tech (Marine Structures) from NIT-K, Suratkal.
- PhD in Structural Engg. from Bangalore University.

He was a faculty at S.I.T., Tumkur for 18 years before joining UltraTech Cement Ltd. as Zonal Head (Tech. Services) in 2005. He is currently Jt. President and Head (Tech. Services) – UltraTech Cement Ltd., Mumbai.

Dr. Ajit Sabnis, Principal Consultant, ASP-SDI, Bangalore



**Education:**

- Bachelor of Engineering, Civil Engineering, Bangalore, India, 1979
- Master of Technology, Engineering Mechanics, IIT Madras, India, 1981
- Ph.D. Program – Jain University, Bangalore, India, JAN 2017

**Experience:**

- Total 39 years in the field of Civil Engineering.
- Gammon India, 1981-1990, India and Abroad - Worked in association with FLM Germany, Mitsui Japan, KKK Bulgaria, and Hyundai Korea.
- K Raheja Development Corporation, 1989-1991, Bangalore, India
- 1991-till date; Established InCiCon AG, an innovative Civil Engineering conclave; number of completed projects 350+ from residential to infrastructure projects.
- Contributed contents for ‘Karnataka Civil Engineer’s Handbook’ published by Task Force, Govt. of Karnataka, India

Dr. V. Senthil Kumar, Professor, IIT Palakkad



Before joining IIT Palakkad as a faculty, Dr. Senthilkumar worked as an Assistant Professor in the Department of Civil and Environmental Engineering at University of Sharjah Since Feb 2014. Prior to that, he worked in Academia, Research and Industry at various capacities; he served as a Senior Lecturer in the School of Construction Economics and Management, under the Faculty of Engineering & the Built Environment at University of the Witwatersrand, South Africa; Senior lecturer at Caledonian College of Engineering, Muscat, Oman; Senior Project Officer at IIT Madras, also involved in Design Interface coordination at Delhi International Airport Limited project. He completed doctoral research in the area of Construction Engineering and Management from Indian Institute of Technology (Madras), India. His master degree is in Structural Engineering and the bachelor degree in Civil Engineering, both from Thiagarajar College of Engineering, Madurai. At present, he teaches and conducts research in the area of Construction Engineering and Management. His specific research focus includes Design Management in Infrastructure Projects, Automation in Construction, Lean Construction and Policy Making in Infrastructure Developmental Projects. He has number of international journal and conference publications in the area of construction engineering and management. He is a member of various professional bodies around the world

Dr. Amarnath, Head - BIM Strategy, L&T Ltd., Chennai



Dr. Amarnath Chegu Badrinath is playing an active role as an Advisory Member for several Digital Built India initiatives. He is the Founding President of the National BIM Society - India Building Information Modelling Association ® that focus on Digital Transformation of Indian AECO Sector. He is serving as Head – BIM Strategy at Larsen & Toubro Construction. Over the course of his career, he held positions in India, Taiwan, Spain, Italy and UK. He holds Ph.D. in Establishing Organization BIM Strategies from National Taiwan University with one-year exchange at Imperial College London. One Master’s in Global BIM Management from Univ. of Barcelona - Zigurat GIT and another in Construction Management from Bangalore Univ. He is contributing as Guest faculty and Industry Guide for research in BIM and Digital Strategy at IIT Delhi & Madras, NIT Trichy & Surathkal, CEPT Univ., Symbiosis Int. Univ., Politecnico Di Milano, etc.. He has participated in few international conferences published journal papers and book chapters in this area. His key research focus is on two directions i.e. Establishing BIM project strategies; and BIM education & training. And, these two directions merge with what can be considered the main shortage in India Construction Policies: how BIM can help the huge amount of new infrastructure and building projects and how BIM would have to be introduce in the learning plans and syllabus of Universities. He is an Advisory Member for EU BIM Observatory and BIMCrew.

Dr. Bharathi Ganesh, Professor & Head, Department of Civil Engineering, NMIT, Bangalore



Prof. Bharathi Ganesh is presently working as Professor and Head, Department of civil Engineering, Nitte Meenakshi Institute of Technology, Bangalore. She has 2 years of industrial experience and 26 years of teaching experience. Her research interest includes Concretes, Self-Compacting Concrete, Use of alternative materials in Concretes. Fresh and Hardened Properties of Concrete, Fly Ash, Pond Ash in Concrete. Application of Nano-Technology in civil engineering, Microstructures of Concrete, etc.

Dr. Jyothi Trivedi, Professor, CEPT University



**Education:**

- PhD (Civil Engineering) May 2019 from Sardar Vallabhbhai National Institute of Technology (SVNIT) Surat, Gujarat.
- 2. Master’s in Engineering Programme (2006) in (Construction Engineering. & Management) from Sardar Patel University, Vallabh Vidhyanagar Anand, India.
- B.E.Civil (2003) from Gujarat University, Ahmedabad, India specialization in “Transportation”

# ATAL workshop on Smart Cities- Concept, Strategies, Opportunities and Challenges



Dr. A.N. Parameswaran is a higher education senior planning & development executive. With Thirty Years of vast experience as a faculty, Senior Academic Administrator in the institutions / university & as a Project officer at National Level MHRD Project . Formerly he was the Dean- SRM University, Chennai  
Project officer- Indian Society for Technical Education, Working Professionals Learning Project, (Popularly was known as AICTE-CEP), Bengaluru .  
Presently he is working as the Director, Industry–Institute Collaboration (IIC) NMAM Institute of Technology (NMAMIT), Nitte & Coordinator, Nitte Education Trust (NET), Mangalore.

# ATAL workshop on Smart Cities- Concept, Strategies, Opportunities and Challenges

The schedule of the workshop was as below-

Day & Date	Session No.	Time	Topic	Resource Person
Day 1 05/01/2021	1	08:30 AM - 11:15 AM	Inaugural Function	
			Invocation	
			Welcome Address	Dr. Bharathi Ganesh Professor & Head, Dept. of Civil Engineering, NMIT, Bangalore
			About NMIT	Dr. H.C.Nagaraj, Principal, NMIT, Bangalore
			Address by Chief Guest	Dr. N.R. Shetty Advisor, Nitte Education Trust Chancellor, Central University of Karnataka, Kalaburgi
			Address by Chief Guest	Dr. N. Gopalakrishnan, Director, CSIR - Central Building Research Institute, Roorkee, Uttarakhand
			Presentation <sup>1</sup>	Smart City Projects - an Overview <sup>2</sup> - by Dr. N. Gopalakrishnan
			Address by Guests of Honour	Dr. K. Ramanjaneyulu, Director, CSIR - Structural Engineering Research Centre, CSIR Campus, Taramani, Chennai
				Sri B. S. C. Rao Senior Consultant & Practising Civil Engineer, Bangalore
				Dr. V. Sridhar, Dean-Academic, NMIT, Bangalore
Mr. Rohit Punja, Administrator, NMIT, Bangalore				
2, 3	11:15 AM - 01:15 PM	Keynote Session Smart Cities and India's Smart Cities Mission	Sri. B.S.C.Rao Senior Consultant & Practising Civil Engineer, Bangalore	
4	01:15 PM - 03:15 PM	Considerations for Planning and Implementing Fire Safety in Smart Cities	Dr. Abhishek Chhabra Market Development Manager, Thomas Bell Wright International Consultants, Abudhabi	
Day 2 06/01/2021	5,6	03:15 PM - 04:15 PM	Smart City Projects in India – Planning Aspects, Public Policy Video on Smart City Singapore – a Case Study	Dr. D. R. Ravi Environmental Officer, Karnataka State Pollution Control Board (KSPCB), Bangalore
Day 3 07/01/2021	7	09:15 PM - 02:15 PM	Smart Cities and Disaster Management in Indian Context	Dr. G. Bagha Professor, NMIT, Bangalore, Former Chief Scientist, CSIR-GERC, Chennai
	8	02:15 PM - 03:15 PM	Smart & Sustainable Options for Housing and Roads	Dr. V. Ramachandra Functional Head, Ultratech Cements Ltd. Mumbai
	9	03:15 PM - 04:15 PM	Green Approach to meet Energy Demands of Smart Cities	Dr. Ajit Sabnis Principal Consultant, ASP-SDI, Bangalore
	10	04:30 PM - 02:15 PM	Scope for Future Research Opportunities w.r.t Smart Cities	Dr. V. Senthil Kumar Professor, IIT Palakkad
Day 4 08/01/2021	11	02:15 PM - 03:15 PM	BIM Applications - An Integral Part of smart City Constructions	Dr. Anamath Head - BIM Strategy, L&T Ltd., Chennai
	12	03:15 PM - 04:15 PM	Challenges, Smart City Indices & Case Studies - Smart Cities	Dr. Bharathi Ganesh Professor & Head, Department of Civil Engineering, NMIT, Bangalore
Day 5 09/01/2021	13	02:30 PM - 03:30 PM	Smart & Sustainable Building Services and MEP Systems	Dr. Jyothi Trivedi Professor, CEPT University
	14	03:30 PM - 03:45 PM	Dimensions of collaborations for Personal and Professional Development	Dr. A.N Parameshwaran, Director-IIC NMAMIT, Nitte, Mangalore
	15	03:45 PM - 04:45 PM	Valedictory & Feedback Session & Online Assessment Test	Dr. Bharathi Ganesh ATAL – Faculty Development Program Coordinator

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The inauguration was held on 5<sup>th</sup> January 2021 through online at 09:30 am. Chief Guests of the program were Dr. N. R Shetty (Advisor, Nitte Education Trust & Chancellor, Central University of Karnataka, Kalaburgi) and Dr. N Gopalakrishnan (Director, CSIR- Central Building Research Institute, Roorkee, Uttarakhand) followed by a presentation by him on the gist of Smart Cities and the technologies. Guest of Honour of the function were Dr. K Ramanjaneyulu (Director, CSIR- Structural Engineering Research Centre, Chennai), Mr. B.S.C Rao (Senior Consultant & Practising Civil Engineer, Bangalore) Dr. V Sridhar (Dean -Academic, NMIT, Bangalore) , Mr. Rohit Punja (Administrator, NMIT, Bangalore).

**NITTE** EDUCATION TRUST | **NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**

**INVITATION**

All are Invited Cordially  
Management and Principal, NMIT, Bangalore

AICTE Training And Learning Academy (ATAL)  
Sponsored  
Faculty Development Programme (FDP)  
on  
**“SMART CITIES - CONCEPT, STRATEGIES, OPPORTUNITIES AND CHALLENGES”**  
05<sup>th</sup> January 2021 – 09<sup>th</sup> January 2021

**Chief Guests**

Dr. N. Gopalakrishnan,  
Director,  
CSIR -Central Building Research  
Institute,  
Uttarakhand

Dr. N. R. Shetty  
Advisor, Nitte Education Trust,  
Chancellor,  
Central University of Karnataka,  
Kalaburgi

Dr. K. Ramanjaneyulu Director,  
CSIR - Structural Engg.  
Research Centre,  
CSIR Campus, Chennai

**Guests of Honour**

Mr. Rohit Punja  
Administrator,  
NMIT

Er. B. S. C. Rao  
Senior Consultant &  
Practising Civil  
Engineer, Bangalore

Dr. H.C. Nagaraj  
Principal,  
NMIT

Dr. V. Sridhar  
Dean-Academic  
NMIT

**Convener**

Dr. Bharathi Ganesh  
HOD, Dept. of Civil  
Engineering, NMIT

Logos: NITTE Education Trust, AICTE, CSIR, NMIT, and various accreditation bodies.

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The list of participants who have registered to the FDP

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## and Challenges

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## and Challenges

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# ATAL workshop on Smart Cities- Concept, Strategies, Opportunities

## and Challenges

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# ATAL workshop on Smart Cities- Concept, Strategies, Opportunities

## and Challenges

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# ATAL workshop on Smart Cities- Concept, Strategies, Opportunities

## and Challenges

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## Department of Civil Engineering

**Event Type: Seminar**

**Event Title: Application of prestressed concrete in infrastructures and building sector”**

**Date: 01-07-2021**

### **Coordinator’s:**

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Dept. of Civil Engineering

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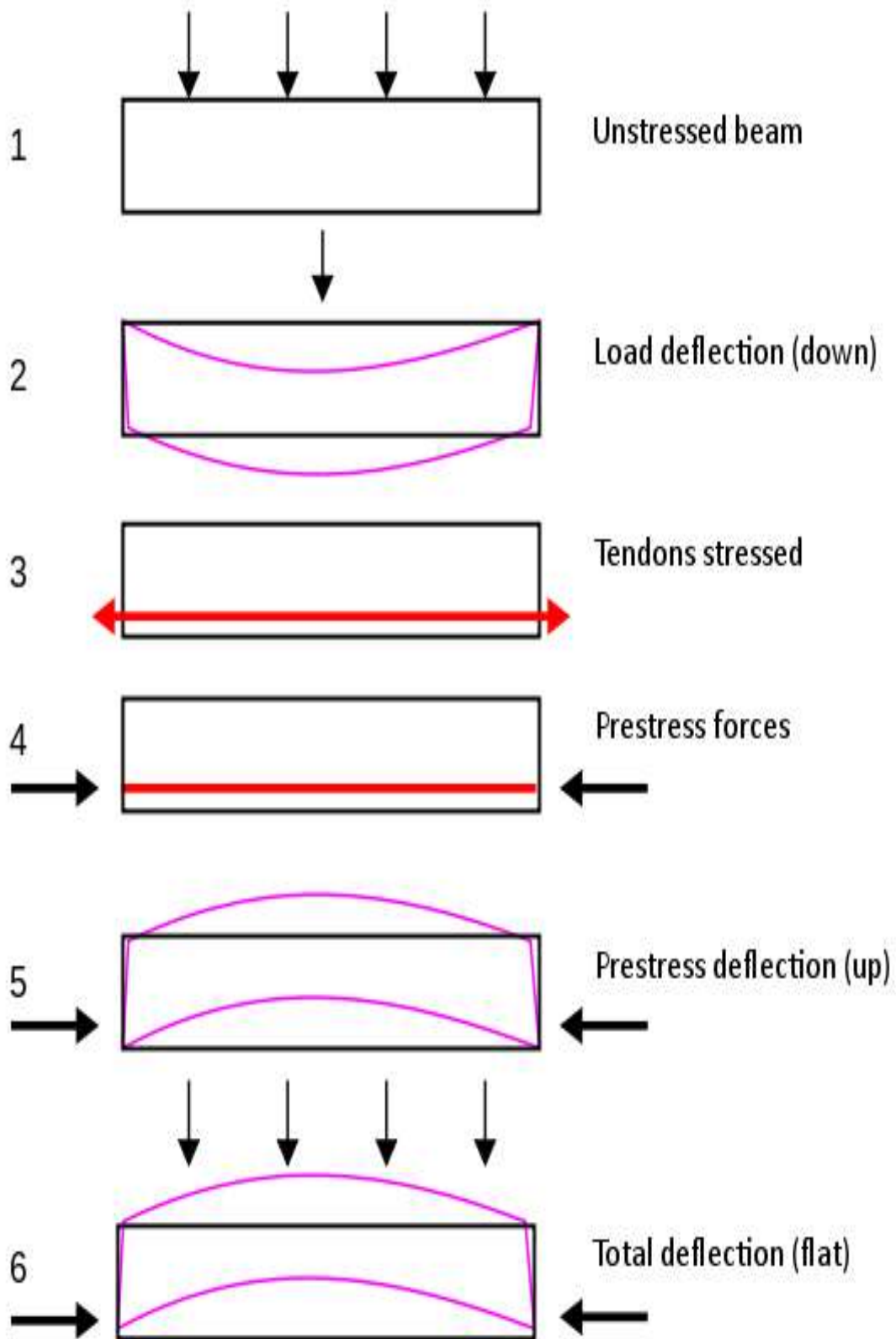
# Applications of prestressed concrete



## **BASIC PRINCIPLES OF PRESTRESSING**

A beam resting on supports at each end tends to bend under its own weight and under applied loading. This causes *compression along the top part of the beam and tension along the bottom part*. In other words, there is a tendency for the bottom of the beam to stretch.

**Concrete is strong in compression, but weak in tension**, and for this reason, a plain concrete beam has little strength. The tensile weakness of concrete is overcome by casting steel bars into the sections where tension is likely to occur. When a load is applied on beam, cracks still occur in the concrete, but the tension is carried by the steel reinforcement.



# New Genoa bridge built in a record time of only 15 months after the fatal collapse in 2018





# APPLICATIONS OF PRESTRESSED CONCRETE

## 1. FOUNDATION:

**Prestressed Concrete Piles:** Prestressed concrete piles have been used extensively in the construction of buildings and marine structures. Due to its high strength for handling and a high degree of durability in seawater and other adverse environments, the use of prestressed concrete piles became very popular in the construction of marine structures. The prestressed concrete piles have many advantages in comparison with conventional piles - a few of them are:

- High load-carrying capacity.
  - Crack-free under handling and driving.
  - Ability to take up-lift (tension).
  - Can bear hard-driving and can penetrate hard strata.
  - Durability in an adverse environment.
  - High column strength.
- In view of the above advantages, the prestressed concrete pile is an ideal choice for deep foundations with heavy loading on weak soil. At present, prestressed concrete piles are being used as sheet piles, fender piles and soldier piles. It also used for carrying vertical loads with different soil strengths and found to be durable in varied environments ranging from sub-arctic to the desert.
  - 
  - **Rock /soil Anchors:** Prestressing techniques are now used for strengthening an existing structure by anchoring it to the rock or soil. In places where rocks are not available immediately below the ground level, rock-anchors are used to anchor the pile to the rocks that are situated at very large depth. The use of prestressed anchors avoids the driving of the pile all the way to the rock which is available at very large depth. The pile is driven only to a certain depth, depending on the soil condition and prestressed cable is sent through the pile to the rock. The cable is then stressed and grouted.

## 2. BRIDGES:

- The spectacular contribution of prestressed concrete can be seen in the construction of superstructures of bridges. It has been extensively used in both rail and road bridges.
- The technique of prestressing lends itself beautifully to the construction of different types of bridges.

**a. Simply Supported Bridges:** They are adopted for medium and short spans. The cross-sections of these beams maybe **I**, **T**, two **T**'s or **Box** shape. The girders can be pre or post-tensioned. These beams may be precast or cast-in-situ and are usually supported by neoprene or other types of bearings at either end.



**b. Cantilever Bridges:** This method is usually adopted for longer span bridges. In this method, there will be cantilevers extending from each of the piers. There will be a suspended span of the shorter length to connect the cantilevers. The cantilevers are usually extended by anchoring precast segments of short length. Each segment is anchored to the balancing extension on the other side of the pier.

**c. Cable-Stayed Bridges:** Extremely long spans constructed by using this method of construction. In this type of construction, the deck or slab is held by a number of prestressed cables anchored to the anchor tower. Using this method spans up to 300 m can be constructed.

Other types of bridges like bridges with Bow String Truss, Stressed Ribbon Deck and Arch Bridges are included.

### 3. MARINE STRUCTURES

Prestressed concrete has gained acceptance in the field of marine structures due to its **durability, strength and economy**. Its application to foundations has already been discussed in the earlier section. Prestressed concrete is now being applied increasingly in the super-structures of the marine projects. A few types of marine structures where prestressed concrete has been adopted are:

- Coastal jetties.
- Wharves.
- Bulkheads.
- Offshore platforms.
- Navigation structures.
- Protective fenders.

In these structures, the prestressed concrete elements may be in the foundation, such as bearing pile, sheet pile, etc. or in the super-structure, such as the deck, beam slab, etc.

It is a well-known fact that marine construction has many problems of its own in its construction procedures. The difficulty at the site especially for the movement of materials and workers, makes quality control a difficult exercise.

Further, highly skilled labour is required in such projects. Such labour is either not available or available at a very high cost. All such factors show that precasting is an ideal choice for marine structure. In precasting, the efficiency and economy can be increased by means of prestressing, especially by pre-tensioning. The pre-tensioned materials can then be made to act monolithically by post-tensioning them subsequently.



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**Department of Civil Engineering**  
Civil UG Programme is NBA(Tier I) accredited up to 2023

Welcome you all to the webinar on

## “Application of Prestressed Concrete in Infrastructure and Building Sector”

**Date - 01st July 2021**  
**Time - 10.00am-11.30am**

**Join through CISCO WebEx**  
**Registration link: <https://forms.gle/yyXMCz51HsLUFVWq9>**

<b>Faculty Coordinator</b> > Umashankar Patil G H Mob:9632831106 > Vishwachehan S G Mob: 9738610069	<b>Convener</b> <b>Dr. Bharathi Ganesh</b> Prof. & Head
---	---

**Speaker:**  
**Dr. Manamohan R Kalgal**  
 Past president ICI & Past VP IAstructE  
 Technical Advisor,  
 UltraTech cement Ltd.



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# **Department of Civil Engineering**

**Event Type: Software training**

**Event Title: “STRUCTURAL ANALYSIS & DESIGN (using ETABS & STAAD PRO)”**

**Date: 18-06-2021 to 20-06-2021**

**Coordinator’s:**

Prof. Shruthi B S  
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Dr. Bharathi Ganesh  
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### **Department of Civil Engineering**

*(Civil Engineering UG Program is NBA accredited for 3 Years from 2017)*

## **Report of 3 Days Software training**

**ON**

## **“STRUCTURAL ANALYSIS & DESIGN (using ETABS & STAAD PRO)”**

**Organized by**

**CADCENTER IEE REVA UNIVERSITY IN ASSOCIATION WITH NITTE MEENAKSHI  
INSTITUTE OF TECHNOLOGY BANGALORE**

Coordinator

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## Content

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3	Photos	5
4	Attendance	6



Autodesk ATC Bangalore organised 3 Days Online Workshop on STRUCTURAL ANALYSIS & DESIGN (using ETABS & STAAD PRO) from 18 June 2021- 20 June 2021.

**AUTODESK**  
Learning Partner

**NITTE**  
EDUCATION TRUST  
**NITTE MEENAKSHI**  
INSTITUTE OF TECHNOLOGY

**Bentley**  
Institute  
Product Training Partner

# 3 DAYS ONLINE WORKSHOP

## Structure Analysis & Design Using ETABS & STAAD PRO

IN ASSOCIATION WITH  
*NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, Bengaluru*

Duration: 3days /6hours  
Fees: free

### WORKSHOP HIGHLIGHTS

- free Authorized software license
- Introduction to advance ETAB, and Complete Hands- on workshop
- Complete assistance of software Installation to all participants
- workshop participation certificate
- Autodesk certified instructors

FOR REGISTRATION



For more information- [+9190203737/reva@cadcenter.org](mailto:reva@cadcenter.org)

## Workshop Highlights

**Start date 18 June 2021- 20 June 2021.**

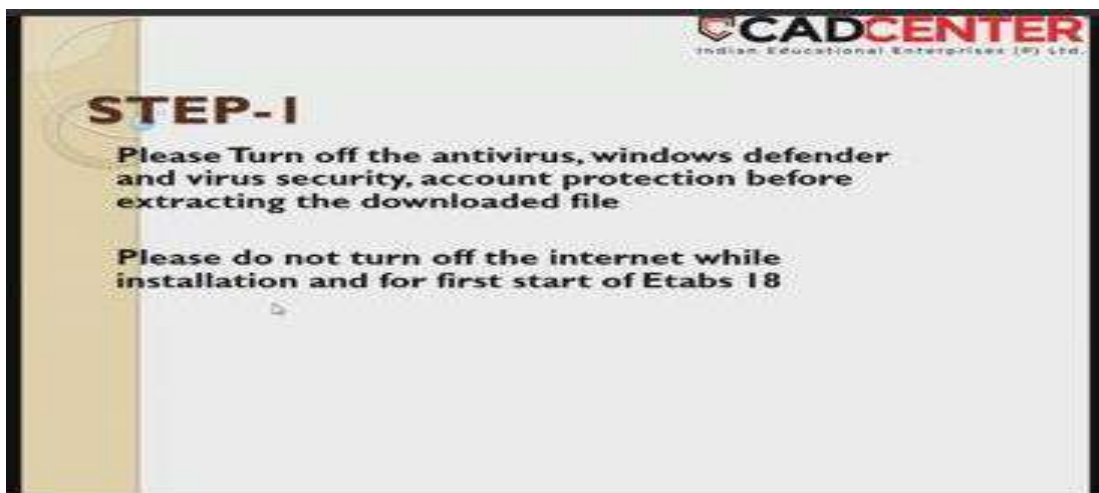
- 1) Free Authorized software license
- 2) Introduction to advance ETAB, and complete Hands- on workshop.
- 3) Complete assistance of software installation to all participants.
- 4) Workshop participation certificate
- 5) Autodesk certified instructors

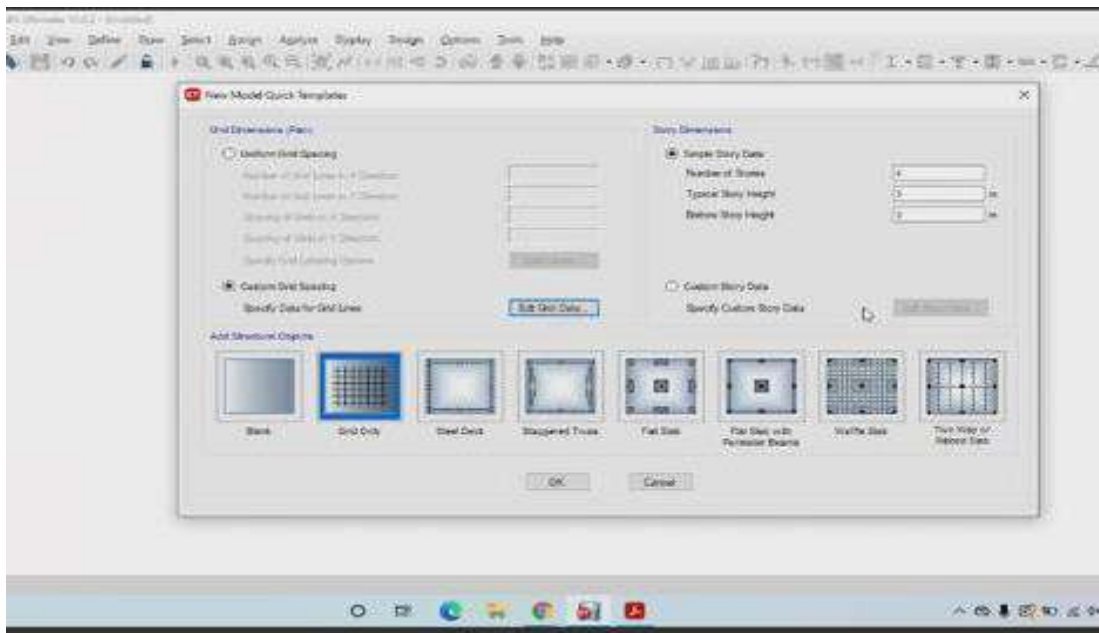
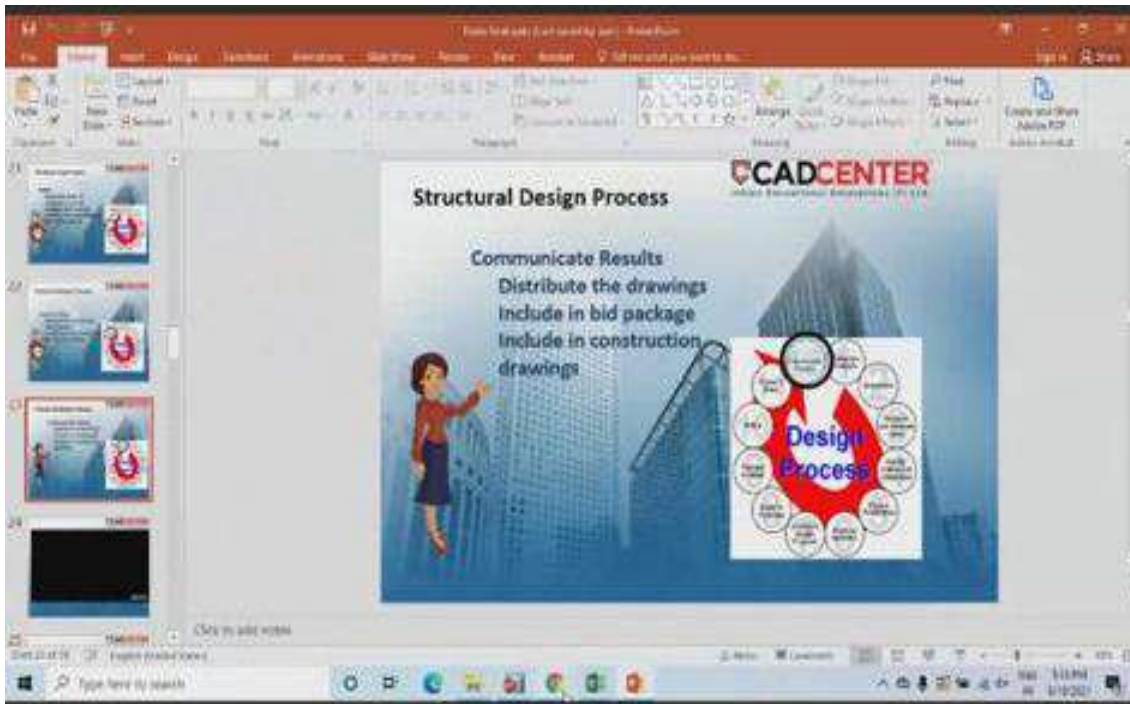
## Objective of the Event

For 8th semester Civil Engineering students of Nitte Meenakshi institute of technology Bangalore, a workshop on “STRUCTURAL ANALYSIS & DESIGN (using ETABS & STAAD PRO)” was organized for three days 18/06/2021 to 20/06/202, As we all know STAAD Pro & ETABS are a much-known structural analysis and design software across the world. Civil Engineers are using this software to perform 3D analysis and design for any kind of low- and high-rise structure, in addition to it, Staad pro is also used to perform analysis and design of steel structures. It integrates every small aspect of engineering designing while also involving the production of schematic sketches.

## Outcome of the Event

The objective of the workshop is to increase the awareness regarding various software tools available for the design and analysis of the RCC Structures, Steel Structures. Online Inauguration of workshop was done Dr. Bharathi Ganesh, Head of civil engineering Department. Application of STAAD Pro and Etabs Software was being explained by Mr. Bharti from Autodesk ATC CAAD Centre, Bangalore. As analysis and design is a very important part of the Civil Engineering Curriculum students have learnt how to prepare a model, assign properties, assign different types of loads, analysis, and design of multi storied RCC building.





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Spandana	Suresh	Nitte Meenakshi Institute of Technology	Present	Present	Present

Jayesh	Shrestha	Nitte Meenakshi Institute of Technology	Present	Present	Present
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SHRINIDHI	GUDI	Nitte Meenakshi Institute of Technology	Present	Present	Present
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KARTHIK	RAO	Nitte Meenakshi Institute of Technology	Present	Present	Present
TEJESH	K	Nitte Meenakshi Institute of Technology	Present	Present	Present
Nitish	Dwivedi	Nitte Meenakshi Institute of Technology	Present	Present	Present



**Department of Aeronautical Engineering**  
**Student Centric activities**

**1. A five-day webinar on SUCCEEDING @ INTERVIEWS 01<sup>st</sup> to 05<sup>th</sup> September 2021**

**Department of Aeronautical Engineering**  
**Organized**

A five-day webinar on

**SUCCEEDING @ INTERVIEWS**

01<sup>st</sup> to 05<sup>th</sup> September 2021

**SPEAKERS**



**MR. H.S. SHAMA SUNDAR**  
Motivational Speaker,  
Leadership Coach,  
Mentor and  
Business Strategist



**MR. A.C.N. MURTHY**  
Management  
Professional and  
Consultant



**DR. TENGLI P.N.**  
Dr. Tengli P.N.  
Adviser (Prof.)  
Aeronautical Dep.,  
NMIT



**DR. P.K. DASH**  
Professor or Head  
Aeronautical Dep.,  
NMIT



**MRS. BHARU REKHA**  
Placement Dept.,  
SMIT

**COORDINATORS**

Faculty  
Coordinator | **Mr. Shridhar K.** (Asst. Prof.) Aeronautical Dept.  
996 589 5279

Student  
Coordinator | **Hemen**  
888 45 86285

**PARTICIPANTS**

- Students of BE Aeronautical Engineering,
  - Students of M.Tech in Aerospace Engineering
-

**SCHEDULE**  
**TOP ON THE TOPIC TO JOIN THE WEBINAR ON GOOGLE MEET !**

Sep 01 | 11am - 12pm  
**Future jobs and economy post Covid19**  
 By: Mr. A.C.N. Murthy

Sep 01 | 3pm - 4pm  
**Challenges to Crack Interview**  
 By: Dr. Tejas P.K.

Sep 01 | 5pm - 6pm  
**Essential interview skills and tips**  
 By: Mr. A.C.N. Murthy

Sep 04 | 11am - 12pm  
**Be Prepared**  
 By: Mr. H.S. Sharada Sunder

Sep 05 | 11am - 12pm  
**Interview Process & Conclusion**  
 By: Mrs. Bharati Reddy (Placement Dept),  
 Dr. Praveen Kumar Dash (IITD Army)

Nitte Meenakshi Institute of Technology  
At: Mahalingapur, Subbala Hills (V), Dodd Balla Hill, 560022

DEPARTMENT OF  
 AERONAUTICAL ENGINEERING  
 PONDY

A No-Stop webinar  
**SUCCESSING @ INTERVIEWS**

A VALUE-BASED ONLINE WEBINAR WITH THE TALENTED PROFESSIONALS  
 EXPERTS IN PROVIDING THE SKILLS REQUIRED FOR FACING INTERVIEWS AND TO SUCCEED!

**OUR KEYNOTE SPEAKERS:**



**MR. K.S. SHARADA SUNDER**  
 Assistant Lecturer,  
 Lecturer-in-Charge,  
 Reader and  
 Professor/Associate



**MR. A.C.N. MURTHY**  
 Department  
 Publications and  
 Creation



**DR. TEJAS P.K.**  
 Dr. Tejas P.K.  
 Assistant  
 Professor/Asst.



**DR. P.K. SURESH**  
 Professor in Dept  
 Aeronautical Engg  
 MIT



**MRS. BHARATI REDDY**  
 Placement Dept,  
 MIT

Participants will get an E-Certificate upon successful submission of feedback form at the end of each session.

Faculty  
 Coordinator

**Mr. Sharada K.** (Asst. Prof), Aeronautical Dept  
 996 519 8273

Student  
 Coordinator

**Hareesha**  
 808 45 6210

**ABOUT OUR KEYNOTE SPEAKERS!**



**K.S. SHARADA SUNDER**

Mr. Sharada Sunder has a diverse & rich background and is specialized in International and Labor Law. He is also a well-versed in Personnel Management and Industrial Relations, & HRD team from several countries in Educational, Services & AC Industrial Property Management and protection.

He has worked in all efficient Industries in the State of Services, MA, Rail, Banks, Manufacturing, IT, ITES, RPO, Retail, Apparel, Healthcare, Hospitality & Educational Refurbishing Industry, Retail Retail (CVT) Super, and Boutique Boutique Business Conferences.

He is a well-known Management Consultant, Leadership Development, and soft skills Facilitator across India a Legal advisory consultant, and has organized over 1000+ and large organizations across India.

He is passionate learning and development specialist and a keynote speaker a various international conferences both in India and abroad apart from being a guest speaker at various Technology and E schools across India, and also a speaker at numerous symposiums, and has trained at various national and international conferences and seminars across India.

**JOIN & LEARN TO GIVE THE RIGHT IMPRESSIONS!**  
 9 - 4 527 8273



**A.C.N. MURTHY**

Mr. Murthy is a seasoned management professional with over 20 years of experience in senior positions at reputed MNCs such as, Mar. Tech, TCS, Infosys, Microsoft, Tata electronics, etc.

He was Managing Director of a Danish based MNC called "Danish Steel Company" in Bangalore.

He is currently a management consultants advising advisory services to executives and Entrepreneurs.

He is a leading expert of flexible HR solutions, a management, leadership, HR, He is also working as an advisor for several companies.

He is the primary architect of team building, leadership, which supports strategic support from the team spirit to

to achieve great results of business management culture and strategies on subjects ranging from HR topics to business and industry.


He is currently also being regularly invited to present and discuss current HR and management issues.

He is an active speaker for the past 10 years. He is currently the founder president of the young group of Management and a Director of operations across the young startup group.


**TAKE CONTROL OF YOUR CAREER!**

**Shift in our thinking...**

F2DM	T2D
Achievement in life	Being alive itself is an achievement
Human being	Being human
Medicine: medical facility	Develop immunity
Technology: an option	Technology is solution
Spend	Save
Love objects use people	Love people use objects
Medicine as food	Food as medicine
Medication	Meditation
globalisation	Localisation





**Time and Frequency Domain**



Time Domain  $f(t)$   $\xrightarrow{FFT}$  Frequency Domain  $F(\omega)$

Small Domain  $\rightarrow$  Frequency Domain










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**DEPARTMENT OF AERONAUTICAL ENGINEERING**

**DAYS NATIONAL WORKSHOP**

**5 PYTHON FOR AEROSPACE ENGINEERS**

**14<sup>th</sup> - 18<sup>th</sup> JUNE 2021 - 1 PM TO 4 PM**

Organized by Aeronautical Engineering Department of NMIT under FALCON (Aeronautical Students Association)

**INAUGURAL CEREMONY**

**Agenda**

**12.30 PM - Commencement of Inaugural Ceremony**

- Introduction by MC
- Welcome address by Dr. H C Nagaraj, Principal, NMIT
- About the Department by Dr. P K Dash, HOD, Dept of AE
- About the FALCON by Mr. Siddalingappa P K, Faculty Coordinator, FALCON
- About the Speaker by Dr. Vinayaka N, Associate Professor, Dept of AE

**1.00 PM - Commencement of Workshop by Dr. Bharath V G, Freelancer**

**Join Zoom Meeting:**  
<https://us02web.zoom.us/j/838877090967?pwd=Zkl0eWZlUjRlbnRkTG02Uk00OjZkdz09>  
 Meeting ID: 838 8770 9096  
 Passcode: python




**PYTHON FOR AEROSPACE ENGINEERS**

Organized by Aeronautical Engineering Department of NMIT under FALCON (Aeronautical Students Association)



Schedule of the 5 Day Workshop

Date: 14/06/2021 to 18/06/2021

Timing: 1pm to 4pm

Day	Date	Title	Session / Time	Topics
Day 01, Monday	14/06/2021	Introduction to Python	Session 01, 1pm to 2:15pm	Importance of Python for ME/CE/AE - Installing of Python o IDLE o Anaconda o Pip
			Session 02, 2:30pm to 4pm	Jupyter Notebook o Overview o Create Folder o Save Programming Methodology o Variables o First Program o Execution
Day 02, Tuesday	15/06/2021	Functions and Flow control	Session 01, 1pm to 2:15pm	If, Else, Elif Statements o Syntax o Program o Execution o Hands on While loop, Break, Continue Statements o Syntax o Program o Execution o Hands on Functions and For Loop o Syntax o Program o Execution o Hands on List o Syntax o Program o Execution o Hands on
			Session 02, 2:30pm to 4pm	Sliding and Comprehensions o Syntax o Program o Execution

				<ul style="list-style-type: none"> <li>o Hands on Dictionaries</li> <li>o Syntax</li> <li>o Program</li> <li>o Execution</li> <li>o Hands on Tuples and Exceptions</li> <li>o Syntax</li> <li>o Program</li> <li>o Execution</li> <li>o Hands on</li> </ul>
Day 03, Wednesday	16/06/2021	Libraries	Session 01, 1pm to 2:15pm	<ul style="list-style-type: none"> <li>o NumPy</li> <li>o Definition</li> <li>o Examples</li> <li>o Hands on</li> </ul>
			Session 02, 2:30pm to 4pm	<ul style="list-style-type: none"> <li>o Pandas</li> <li>o Definition</li> <li>o Examples</li> <li>o Hands on</li> </ul>
Day 04, Thursday	17/06/2021	Programming	Session 01, 1pm to 2:15pm	<ul style="list-style-type: none"> <li>o Aircraft Structures</li> <li>o Basic Elasticity</li> <li>o Structural components of aircraft</li> <li>o Fuselages</li> <li>o Wings</li> <li>o Airframe loads</li> </ul>
			Session 02, 2:30pm to 4pm	<ul style="list-style-type: none"> <li>o Fundamentals of Aerodynamics</li> <li>o Introductory to Aerodynamics</li> <li>o Airfoils</li> <li>o Laminar Boundary layers</li> </ul>
Day 05, Friday	18/06/2021	Advanced Programming	Session 01, 1pm to 2:15pm	<ul style="list-style-type: none"> <li>o Propulsion</li> <li>o Engine Trust</li> <li>o Combustion Chamber</li> <li>o Axial and Centrifugal Compressor Aerodynamics</li> <li>o Plotting Airfoil Coordinates</li> <li>o Airfoils are 2D cross-sections of wings, and they are primarily used to perform first-order modelling of lift and drag at different speeds and angles of attack. Plot variety of Airfoils.</li> </ul>
			Session 02, 2:30pm to 4pm	<ul style="list-style-type: none"> <li>o Airbus Problem: An Airbus A321 at sea level, 10,000 feet, and 25,000 feet. Demonstrate the plotting capabilities of Matplotlib. Explain the relationship between thrust available and thrust force required.</li> </ul>

### 3. **Five-day online workshop on “Aerospace Technical Publication” From 28th September to 03rd October, 2020**

The following aspects were covered during the workshop

#### **Day 01; 28th September 2020**

Mr. Elangovan Rajagopalan, Technical Advisor at Aerotics Technologies, (VSSC- ISRO Former Research Scientist)

- Introduction to aircraft manual: Definition of aircraft manual, Types and uses of aircraft manual, Manual writing workflow.
- Aircraft manual standards:
- ATA100: Introduction to ATA100, ATA chapters, Merits and demerits of ATA 100.
- iSpec2200: Introduction to iSpec2200, iSpec2200 numbering system, Merits and demerits of iSpec2200, Difference between ATA100 and iSpec2200, ATA iSpec 2200 publications.
- S1000D: Definition of S1000D, Data module, Data module code, Data management requirement list(DMRL), Common source data base, Publication module, Publication module code, Information control number, Business rule, Business rule exchange module(BRIX rule) and Item location code

#### **Day 02; 29th September 2020,**

Mr. Tamilarasu Kaliannan, Head of Operations - Technical Publications & Engineering Services at Aerotics Technologies

- Aircraft maintenance manual (AMM): Divination, Purpose of manual, Level of maintenance, Coverage of AMM, AMTOSS numbering system and Page blocks of AMM.
- Component maintenance manual(CMM): Divination, Purpose of manual, Level of maintenance, Coverage of CMM, Contents of component maintenance manual, Page blocks of CMM.

#### **Day 03; 30th September 2020,**

Mr. Vinoth kumar, Technical Manager at Aerotics Technologies

- Structural repair manual(SRM): Definition, Purpose of manual, Coverage of SRM, Classification of SRM, Page block of SRM, SRM damage reporting.
- Wiring diagram manual(WDM): Definition, Content-general description of WDM, Content-Detail description of WDM, WM introduction, Electrical and Electronics wiring diagram, Schematic diagrams- system schematic, logic schematics, system logic schematics, Electrical and Electronics chart, Electrical and Electronic equipment list, Electrical and Electronic wiring and hook-up list, Standard practices, Wire identification and numbering, Marking of wire.

## Day 04; 01st October, 2020

Mr. Rajesh Kumarasamy, Technical Lead and Instructor at Aerotics Technologies,

- Illustrated Part CatLog(IPC): Definition, Purpose of IPC, Organization of IPC, IPC table of content, IPC practices, Bill of materials(BOM), DPL in IPC.
- Illustrated Part List (IPL): Introduction to IPL, Engineering terms, IPL terms, IPL part number rule, IPL indenture, IPL nomenclature special words, IPL process chart, Difference between IPC and IPL, Examples- sample preparation of IPL.

## Day 05; 03rd October, 2020

Mr. Dhandapani Parivallal, Technical Instructor at Aerotics Technologies

- ASD Simplified Technical English: Definition of ASD STE, History, Purpose of STE, Rules of STE: General rules, which words can you use, Verbs and adjectives, Technical names.
- AMM and CMM task writing using STE using ATA iSpec 2200 standards.

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Tiruvananthapuram, Bengaluru - 500 004, India

Department of Aeronautical Engineering  
Organizing  
**5 Day Online Workshop**  
on  
**"AEROSPACE TECHNICAL PUBLICATION"**

Inauguration  
by  
**Dr. N R Shetty**  
Advisor, NMIT

Presided  
by  
**Dr. H C Nagaraj**  
Principal, NMIT

**AEROTICS TECHNOLOGIES**  
QUALITY & TRUST DELIVERED TOGETHER

Aerospace & Aviation Sector Skill Council | Skill India | N-S-D-C National Skill Development Corporation  
Transforming the skill landscape

From 28<sup>th</sup> September to 03<sup>rd</sup> October, 2020  
Venue: Simulation Lab , NMIT  
Timings: 10 am to 11 am

#### NMIT

Nitte Meenakshi Institute of Technology is managed by Nitte Education Trust. The Trust is managing 36+ educational institutions in Karnataka at Mangalore, Bengaluru and Nitte. Nitte Meenakshi Institute of Technology (NMIT) is an Autonomous Institution affiliated to the Visvesvaraya Technological University (VTU), with the approval of UGC and accredited by the National Board of Accreditation (NBA) under Tier-1 scheme and National Assessment and Accreditation Council with 'A' grade (NAAC – UGC). NMIT is the youngest engineering college in the country to be conferred the prestigious autonomous status by Govt. of Karnataka/UGC New-Delhi in the year 2007.

#### AERONAUTICAL DEPARTMENT

The Department of Aeronautical Engineering started functioning in the year of 2011-12 with the approval of AICTE & VTU. The Department of Aeronautical Engineering is the youngest and most dynamic department at NMIT.

**Vision of the department** is to develop technically competent Aeronautical Engineers of the highest academic standards to meet the national and global requirements of Industry and Society.

#### Mission of the department are as follows:

- ◆ To impart quality education in Aeronautical Engineering through top-class teaching – learning process, well-designed curricular & co-curricular activities and state-of-the-art infrastructure.
- ◆ To inculcate ethical values and develop innovative ideas to meet ever changing global requirements through Industry-Institute Interaction and Inter-disciplinary research.

The Department is equipped with state-of-the-art facilities and is poised for further growth under the dynamic guidance of Dr. N R Shetty, Dr. H C Nagaraj and Dr. P K Dash.

#### SCOPE OF THE WORKSHOP

The Workshop provides knowledge on the various types of Aerospace Technical publications and its importance. The knowledge in this domain is the need of the hour as majority of fresher Aero jobs are on these roles. The students are exposed to the growth in the Industry on specializing in this field. Workshop also highlights the Aerospace companies involved in Technical Publication Domain. The workshop contents chosen are according to the companies requirement in an Interview perspective for the benefit of the students and to make industry ready engineers.

#### CONTENTS OF THE WORKSHOP

- Introduction to Aerospace Technical Publication
- Introduction to Aerospace Engineering Drawing Analysis and Interpretation
- Introduction to Simplified Technical English (ASD-STE)
- Aircraft Systems
- Engine Systems

#### CHIEF PATRONS

Dr. N V Hegde, President, Nitte Education Trust, Mangalore, India  
Dr. N R Shetty, Chancellor-Central University of Karnataka, Kalburgi and Advisor, Nitte Education Trust, Mangalore, India

#### CHAIRMAN

Dr. H C Nagaraj, Principal, NMIT, Bengaluru

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Dr. V Sridhar, Dean (Academic), NMIT, Bengaluru  
Dr. L M Pattnaik, Advisor (Technical), NMIT, Bengaluru  
Dr. K Sudha Rao, Advisor (Admin & Management), NMIT, Bengaluru  
Dr. Jharna Majumdar, Dean (R&D)

#### CHIEF CO-ORDINATORS

Dr. Pramod Kumar Dash, Professor & Head, Dept of AE  
Dr. PN Teugh, Advisor, Dept of AE  
Dr. Achintya Krishna Sarkar, Professor, Dept of AE

#### WORKSHOP CO-ORDINATOR

Dr. Vinayaka .N, Associate Professor, Dept of AE

#### SPEAKERS

Mr. Elangovan Rajagopalan, Technical Advisor at Aerotics Technologies (VSSC- ISRO Former Research Scientist)  
Mr. Tamilarasu Kaliannan, Head Of Operations - Technical Publications & Engineering Services at Aerotics Technologies  
Mr. Vinoth kumar, Technical Manager at Aerotics Technologies  
Mr. Rajesh Kumarasamy, Technical Lead and Instructor at Aerotics Technologies  
Mr. Dhandapani Parivallal, Technical Instructor at Aerotics Technologies



Schedule of Five day online workshop on "Aerospace Technical Publication"

From 28<sup>th</sup> September to 03<sup>rd</sup> October, 2020

Venue: Simulation Lab , NMIT

Timings: 10 am to 11 am

Sl No	Date	Details of the Speaker
	28 <sup>th</sup> September 2020, 9 to 10am	Inauguration
01	28 <sup>th</sup> September 2020,	Mr. Elangovan Rajagopalan, Technical Advisor at Aerotics Technologies (VSSC- ISRO Former Research Scientist)
02	29 <sup>th</sup> September 2020,	Mr. Tamilarasu Kaliannan, Head of Operations - Technical Publications & Engineering Services at Aerotics Technologies
03	30 <sup>th</sup> September 2020,	Mr. Vinoth kumar, Technical Manager at Aerotics Technologies
04	01 <sup>st</sup> October, 2020	Mr. Rajesh Kumarasamy, Technical Lead and Instructor at Aerotics Technologies
05	03 <sup>rd</sup> October, 2020	Mr. Dhandapani Parivallal, Technical Instructor at Aerotics Technologies

#### 4. Four day Alumni Webinar Series, 18 TO 21 June 2021

##### SPEAKERS

1. Ms. SANOBAR DAFEDAR
2. Mr.SAMARTH HIREMATH
3. Mr.HARSHITH SOMAIAH
4. Mr. SALMAN SAIF KHAN

##### COORDINATORS

1. Dr. Srikanth H V, Associate professor, Dept. of Aeronautical Engineering
2. Mr. Sridhar K, Assistant Professor, Dept. of Aeronautical Engineering

##### PARTICIPANTS

- Students of BE Aeronautical Engineering,
- Students of M.Tech in Aerospace Engineering
- **Schedule of the program**

Date	Speaker	Topic	Time
18 June 2021	Ms.Sanobar Dafedar Air traffic control officer Redbird Flight Training Academy Baramati,Maharastra	Pilot training experience & Opportunities, Instrument landing system	6:20 PM to 7:20 PM
19 June 2021	Mr.Salman Saif Khan Technical Analyst Oracle Ontorio,Canada	Post-graduation opportunities at Canadian Universities	5:00 PM to 5:45 PM
20 June 2021	Mr.Samarth Hiremath Project Manager Ortec group,Sonovision Aetos Bangalore	Aerospace Technical Publications	3:00 PM to 4:15 PM
21 June 2021	Mr. Harshith Somaiah Data Analyst Acumen Aviation Bangalore	Aircraft Asset Management	11:30 AM to 12:45 PM

## ALUMNI WEBINAR SERIES-2021



**18 TO 21 JUNE -2021**



**SANOBAR D**  
ATC Officer  
Redbird Flight training Academy  
Baramati, Maharashtra



**SAMARTH HIREMATH**  
Project Manager  
Sonovision Aetos  
Bangalore



**HARSHITH SOMAIAH**  
Data Analyst  
Acumen Aviation  
Bangalore



**SALMAN SAIF KHAN**  
Technical Analyst  
Oracle, Canada

**Co-ordinators**  
Dr. Srikanth H V  
Mr. Sridhar K  
Dept. of Aeronautical Engineering

**Register Now**

<https://forms.gle/66WkjiVoNGX93uB36>





meet.google.com/jyj-vefh-kmx

Harshith Somaiah Biddatanda is presenting

- Aircraft is an Asset.
- Aircraft is an asset which is used as a medium to generate revenue.
- Aircraft is a financial entity.

11:34 AM | jyj-vefh-kmx

11:34 AM 20/06/2021

meet.google.com/tmb-btbt-pjb

samarth Hiromath is presenting

# TECHNICAL DOCUMENTATION

3:01 PM | tmb-btbt-pjb

3:01 PM 19/06/2021

## 5. Aeroexpo-2021, Project exhibition

### Report on AEROEXPO – 2021

An Offline/Online – National Level Project Competition and Exhibition was conducted on 27-July-2021 at NMIT Aeronautical Department.

We had final year Project participants from all over India of both UG and PG of Aeronautical and Aerospace branches. Around 49 teams had registered online for the event. The projects were from Aerodynamics, Structures, Propulsion and Drones/Space Technologies field and were evaluated based on respective faculties specialization. Mr. Pradeep Kumar Sarangapani, Quality Manager, Auditor and Drone Instructor Airbus Group, India was the Chief Guest and Judge of the event. Administrator Mr. Rohith Punja, Principal Dr. HC Nagaraj, HOD Dr. PK Dash and Professor Dr. P N Tengli addressed the participants. Event Organizers were Dr. Vinayaka N and Mr. Ram Vishal, faculties of Aeronautical Department, NMIT.





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**Aeronautical Engineering Department, NMIT**

**CHIEF PATRONS**

**Dr. N V Hegde**  
President, Nitte Education Trust, Mangaluru, India  
**Dr. N R Shetty**  
Chancellor, Central University of Karnataka, Kalburgi  
Advisor, Nitte Education Trust, Mangaluru

**CHAIRMAN**

**Dr. H C Nagaraj**  
Principal, NMIT, Bengaluru

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**Dr. K Sudha Rao**  
Advisor (Admin & Management), NMIT, Bengaluru  
**Mr. Rohit Punja**  
Administrator, NET, Mangaluru  
**Dr. V Sridhar**  
Dean (Academic), NMIT, Bengaluru

**CHIEF CO-ORDINATOR**

**Dr. Pramod Kumar Dash**  
HoD, Dept of AE

**CHIEF GUESTS**

**Mr. Sunil Sabut, Manager (MBSE)**  
Boeing, India  
**Mr. Pradeep Kumar Sarangapani**  
Quality Manager, Auditor and Drone Instructor  
Airbus Group, India

**ORGANIZERS:**

**Dr. Vinayaka N.**  
Associate Professor, AE Dept, NMIT  
9902385846, Email ID: vinayaka.n@nmit.ac.in  
**Mr. Ram Vishal G.**  
Assistant Professor, AE Dept, NMIT  
9676141747, Email ID: ramvishal.g@nmit.ac.in

**STUDENT CO-ORDINATORS:**

**Akanksha J Shetty** : +91-94814-58909  
**Swamyraj Rahul Bhise** : +91-89049-94700  
**Shamant S Acharya** : +91-80734-85260  
**Krushik Devaramane** : +91-94499-82626  
**Vaishnav R** : +91-80507-42775

Organizing  
**Offline/Online - National  
Level Project Competition & Exhibition**

**AEROEXPO-2021**

**Eligibility:**

Final year B.E. and Final year M.Tech  
(Aeronautical and Aerospace) - 2021 passing  
out or 2021 graduated students only.

**Timings: 09:00 AM to 06:00 PM**

**Prizes:**

**1<sup>st</sup> Prize : Rs. 5,000 (1 Team)**  
**2<sup>nd</sup> Prize : Rs. 3,000 (3 Teams)**  
**3<sup>rd</sup> Prize : Rs. 1,000 (5 Teams)**

Streams	Review Panel Committee
<b>Aerodynamics</b>	Dr. Athul Joseph, Mr. Vinod L, Mr. Siddalingappa P K
<b>Structures</b>	Dr. Vinayaka N, Mr. Ram Vishal G, Mr. Sridhar K
<b>Propulsion</b>	Dr. Srikanth H V, Dr. Praveen B, Mr. Suthan R
<b>Drones, Space Technology, Controls &amp; Others</b>	Dr. P N Tengli, Mr. Mahendra M A., Mr. Prashant Manvi, Mrs. Jhumki Nandy, Mr. Prakash T

**Accommodation will not be provided.**

**Free Registration**  
<https://qr.go.page.link/FQ7jw>

Platform  
Google Meet/  
Webex

Last Date for Registration  
**25<sup>th</sup> July 2021**



Register Now

On Tuesday,  
July 27<sup>th</sup>,  
2021.

[www.nmit.ac.in](http://www.nmit.ac.in)



NITTE Rank - 128



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NAAC ACCREDITED A+



ARIIA



NMIT IS RANKED TOP 3



AICTE IS AWARDED PLATINUM GRADE



AICTE - IN Survey of colleges with industry linkages



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**Aeronautical Engineering Department, NMIT**

**Aero-Expo 2021**

**National Level Project Competition and Exhibition**

**Inaugural Ceremony**

**Agenda**

- Introduction by Coordinator (10:00 am)
- Welcome address and about Aero Expo by Dr. Vinayaka N, Associate Professor, Dept of AE (10:05 am)
- About college by Dr. H C Nagaraj, Principal, NMIT (10:15 am)
- About Department by Dr. P K Dash, HoD, Dept of AE (10:25 am)
- Speech by Mr. Pradeep Kumar Sarangapani, Quality Manager/Standardization Manager & Auditor AS, Airbus Group- India. (10: 35 am)
- Speech by Mr. Sunil Sabut, Manager (MBE), Boeing, India.(11:00 am)
- Awarding GATE-2021(11:20 am)
- Vote of thanks by Mr. Ram Vishal G, Assistant Professor, Dept of AE (4:00 pm)
- Announcement of Aero-Expo 2021 Winners (6:00 pm)

## 6. Webinar on Drones Bench “Evaluate the Technical quality of drones” on 22 Jan 2021



An Autonomous Institution approved by GOVT. HIGHER EDUC. DEPT. OF KARNATAKA. Accredited by UGC with "A+" grade, Accredited by NBA (Tier-1), Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka, India

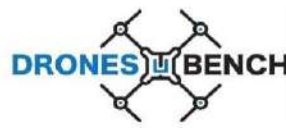
Department of Aeronautical Engineering



is organizing a webinar on

**“DronesBench (Evaluates the technical quality of Drone)”**

In association with Drones Bench, Foggia, Italy,



on Fri Jan 22, 2021 3pm – 4pm

**Speaker** - Prof. Mauro Pompetti

CEO - DPM Electronica & DronesBench, Foggia, Italy

### **About the Speaker:**

Mauro Pompetti completed his M.S in Nuclear Engineering in 1986 and he is the author of several scientific and informative publications. He is passionate on design of new technical devices for drones, new counter systems, teaching.

Mr. Mauro Pompetti is a professor in ITIS “Altamuradavinci” of Foggia, partner of University UniSannio of Benevento, Politecnico of Bari.

### **Drones Bench** –

DronesBench is the first device in the world designed to ensure a strategic solution for the control and safe management of professional drones, which offers a series of integrated services of fundamental importance for the diagnosis, testing, setting and flight simulation.

### **Key Points of Webinar:**

- DronesBench types
- DronesBench Architecture
- DronesBench Index
- Test Results
- Performance Evaluation

### **Organized By**

**Organizing Secretary:** Mr. Vinod L, Assistant Professor, Department of Aeronautical Engineering

**Co-Organizing Secretary:** Mr. Mahendra M A, Assistant Professor, Department of Aeronautical Engineering

### **Chief Coordinator**

Dr. Pramod Kumar Dash, HoD, Dept of AE

**Participants:** Student, Faculty of Aeronautical, Aerospace Engineering and allied branches.

Around **participants** from various colleges are attending this webinar.

1. Mangalore institute of technology and Engineering, Karnataka.
  2. Hindustan University, Tamil Nadu
  3. BMS college of engineering, Bangalore
  4. M V J C E, Bangalore
  5. KLS Gogte institution of technology Belgavi
  6. Kalpataru institute of technology, Tiptur
  7. Government engineering College, Hassan
-

8. Acharya Institutes of technology, Bangalore
9. Surya group of institution, Tamil Nadu
10. Mohamed sathak engineering college kilakarai, Tamil Nadu
11. Kumaraguru College of Technology, Coimbatore.
12. New Horizon College of Engineering, Bangalore.
13. Nehru institute of engineering and technology, Tamil Nadu

#### **About the Institution**

Nitte Meenakshi Institute of Technology is managed by Nitte Education Trust. The Trust is managing 35+ educational institutions in Karnataka at Mangalore, Bengaluru and Nitte Meenakshi Institute of Technology (NMIT) is an Autonomous Institution affiliated to the Visvesvaraya Technological University (VTU), with the approval of UGC and accredited by the National Board of Accreditation (NBA) under Tier-1 scheme and National Assessment and Accreditation Council with 'A+' grade (NAAC – UGC). NMIT is the youngest engineering college in the country to be conferred the prestigious autonomous status by Govt. of Karnataka/UGC New-Delhi in the year 2007.

#### **About the Department**

The Department of Aeronautical Engineering was started functioning in the year of 2011-12 with the approval of AICTE & VTU. The Department of Aeronautical Engineering is the youngest and most dynamic department at NMIT. Vision of the department is to develop technically competent Aeronautical Engineers of the highest academic standards to meet the national and global requirements of industry and society.

Mission of the department are as follows;

- ❖ To impart quality education in Aeronautical Engineering through top-class teaching – learning process, well-designed curricular& co-curricular activities and state-of-the-art infrastructure.
- ❖ To inculcate ethical values and develop innovative ideas to meet ever changing global requirements through industry-institute interaction and interdisciplinary research.



**NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**

An Autonomous Institution Approved by USC/AICTE/ Govt. of Karnataka Accredited by NAAC-UGC with "A+" grade. Accredited by NBA (Tier-1), Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka, India.



**DEPARTMENT OF AERONAUTICAL ENGINEERING**

is organizing a webinar on

# DronesBench

(Evaluates the Technical Quality of Drone)

In association with

**DronesBench, Foggia, Italy**

**on Friday, 22nd January, 2021  
from 3:00 to 4:00 PM**

**CHIEF PATRONS**

**Dr. N V Hegde**  
President, Nitte Education Trust, Mangaluru, India

**Dr. N R Shetty**  
Chancellor, Central University of Karnataka, Kalburgi  
Advisor, Nitte Education Trust, Mangaluru

**CHAIRMAN**

**Dr. H C Nagaraj**  
Principal, NMIT, Bengaluru

**ADVISORY COMMITTEE**

**Dr. L M Patnaik**  
Advisor (Technical), NMIT, Bengaluru

**Dr. K Sudha Rao**  
Advisor (Admin & Management), NMIT, Bengaluru

**Mr. Rohit Punja**  
Administrator, NET, Mangaluru

**Dr. V Sridhar**  
Dean (Academic), NMIT, Bengaluru

**CHIEF CO-ORDINATOR**

**Dr. Pramod Kumar Dash**  
HoD, Dept of AE

Participants: Student, Aerospace Engineering & Allied Branches



**PLATFORM : GOOGLE MEET**

**REGISTRATION LINK**

<https://forms.gle/JLg9i8VSpGBGfXjg8>  
Meeting Link: will be shared on the day of webinar

**Organized By**

Organizing Secretary:

**Mr. Vinod L**  
Assistant Professor, Department of Aeronautical Engineering  
9164537537 | vinod.l@nmit.ac.in

Co-Organizing Secretary:

**Mr. Mahendra M A**  
Assistant Professor, Department of Aeronautical Engineering  
7259973752 | mahendra.ma@nmit.ac.in

[www.nmit.ac.in](http://www.nmit.ac.in)

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**DEPARTMENT OF AERONAUTICAL ENGINEERING**

**About the Institution**

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- To inculcate ethical values and develop innovative ideas to meet ever changing global requirements through industry-institute interaction and interdisciplinary research.



*Speaker*

**Prof. Mauro Pompetti**

CEO - DPM Electronica & DronesBench, Foggia, Italy

**About the Speaker**

Mauro Pompetti completed his M.S in Nuclear Engineering in 1986 and he is the author of several scientific and informative publications. He is passionate on design of new technical devices for drones, new counter systems, teaching.

Mr. Mauro Pompetti is a professor in IPSIA "Pacinotti" of Foggia, University UniSannio of Benevento, Politecnico of Bari.

**DronesBench**

DronesBench is the first device in the world designed to ensure a strategic solution for the control and safe management of professional drones, which offers a series of integrated services of fundamental importance for the diagnosis, testing, setting and flight simulation.

**Key Points of Webinar**

- + DronesBench types
- + DronesBench Architecture
- + DronesBench Index
- + Test Results
- + Performance Evaluation

[www.nmit.ac.in](http://www.nmit.ac.in)

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7. Webinar on potential use of drones for infrastructure inspection and survey on 1 June 2021

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DEPARTMENT OF AERONAUTICAL ENGINEERING

**A Technical Webinar under FALCON in association with Jane Aerospace Pvt. Ltd.**

**JMA** REDEFINING FLIGHT

**TOPIC**

**POTENTIAL USE OF DRONES FOR INFRASTRUCTURE INSPECTION & SURVEY**

01ST JUNE, 2021 | 4:00 PM TO 5:30 PM

**Mr. Leo Peter Charles**  
Founder & Managing Director  
Jane Aerospace Pvt Ltd.

PLATFORM: zoom, YouTube

www.nmit.ac.in

For more details contact  
**Dr. Vinayaka N**  
Associate Professor  
Dept. of Aeronautical Engg, NMIT  
+91 99023 85846

Registration Link  
[https://docs.google.com/forms/d/e/1FAIpQLSerFcKBI CBet80n7Jw-c179ros5Vg99fLVfPOtjcrAogNUxzw/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSerFcKBI CBet80n7Jw-c179ros5Vg99fLVfPOtjcrAogNUxzw/viewform?usp=sf_link)

Registration Fees: Free

SCAN QR CODE FOR REGISTRATION

### Details of Participants of "POTENTIAL USE OF DRONES FOR INFRASTRUCTURE INSPECTION AND SURVEY"

Name	College/Organization Name	USN or Employee ID	Branch of Study/ Occupation
Sumithra M	Nitte Meenakshi Institute of Technology	1NT17AE061	Aeronautical Engineering
Junaid nazir	Nitte Meenakshi Institute of Technology	1nt18ae063	Aeronautical
Sangeetha patil p	Nitte Meenakshi Institute of Technology	1NT19AE044	Aeronautical engineering
SYEED HABEEBUR RAHAMAN	Nitte Meenakshi Institute of Technology	24723	Aerospace Engineering
LAVANYA S	Nitte Meenakshi Institute of Technology	24517	M.Tech in Aerospace Engineering
Suraj Dhavaleshwar	Nitte Meenakshi Institute of Technology	1NT17AE062	Aeronautical Engineering
S Pranam	Nitte Meenakshi Institute of Technology	1NT18AE409	Aeronautical engineering
RiwaJ Duwady	Nitte Meenakshi Institute of Technology	1NT18AE066	Aeronautical engineering
G Vignesh	Nitte Meenakshi Institute of Technology	1NT19AE019	Aeronautical Engineering
Yashasswini AS	Nitte Meenakshi Institute of Technology	1NT19AE064	Aeronautical engineering
Hardik Jain	Nitte Meenakshi Institute of Technology	1NT18AE013	Aeronautical engineering
S THANKAPPA RAJ	Nitte Meenakshi Institute of Technology	1NT17AE052	Aeronautical engineering
Jhumki Nandy	Nitte Meenakshi Institute of Technology	8625	Service
Arbaz khan	Nitte Meenakshi Institute of Technology	1NT19AE006	Aeronautical engineering
Nikhil D	Nitte Meenakshi Institute of Technology	1NT19AE031	Aeronautical engineering
TK BHUVAN RAJU	Nitte Meenakshi Institute of Technology	1NT19AE011	Aeronautical engineering
HASHIM RAZA	Nitte Meenakshi Institute of Technology	24132	Aeronautical Engineering
Padhmanaban k	Nitte Meenakshi Institute of Technology	1NT17AE026	Aeronautical
Anil Joshi	Nitte Meenakshi Institute of Technology	1NT18AE006	Aeronautical
Kunal Kumar	Nitte Meenakshi Institute of Technology	1NT17AE033	Aeronautical Engineering
Rajshakar	Nitte Meenakshi Institute of Technology	1NT18AE040	Aeronautical
Meena Srikanth	Nitte Meenakshi Institute of Technology	24789	M.Tech Aerospace engineering
Sumanth	Nitte Meenakshi Institute of Technology	1NT19AE067	Aeronautical engineering
Navneet Deo	Nitte Meenakshi Institute of Technology	1NT19AE030	Aeronautical Engineering
N Deva	Nitte Meenakshi Institute of Technology	1NT19AE029	Aeronautical Engineering
Sachin K m	Nitte Meenakshi Institute of Technology	1NT19MAS05	Aeronautical branch
Srushti R	Nitte Meenakshi Institute of Technology	1NT18AE050	Aeronautical engineering
Rakesh kumar ray	Nitte Meenakshi Institute of Technology	1NT19AE040	Aeronautical
Jyotirmoyee Panda	Nitte Meenakshi Institute of Technology	1NT17AE025	Aeronautical Engineering
CRG KARTHIKEYAN	Nitte Meenakshi Institute of Technology	1NT18AE011	Aeronautical engineering
AASHWJ S	Nitte Meenakshi Institute of Technology	1NT17AE001	Aeronautical engineering
Likith N	Nitte Meenakshi Institute of Technology	1NT17AE034	Aeronautical

## Student – centric activities report

### Basics Of Wind Turbine

- Mr. Rama Prashantha Holla K, Manger – Global Electrical Engineering (NPP) at KK Wind Solutions provided an detailed insight about wind turbine and its working.
- Students of all the semester attended this online talk.

The poster is for an event titled "Basics of Wind Turbines" organized by NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY. It is part of the "Alumni Technical Talk Series" and is scheduled for 4th December 2020 at 10:00 AM IST. The event is hosted by the Department of Electrical and Electronics Engineering. The key speaker is Mr. Rama Prashantha Holla K, Manager at KK Wind Solutions. The poster includes a QR code for registration and contact information: 9886550556 and www.nmit.ac.in.

**NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**  
EDUCATION TRUST  
(ACCREDITED BY NBA & NAAC A+)  
Gorindapur, Golahalli, P.B. No. 6429, Yelahanka, Bengaluru, 560-054, Karnataka Phone: 080-22167600

Department of Electrical and Electronics Engineering,  
Nitte Meenakshi Institute of Technology, Bengaluru-560 064.

Alumni Technical Talk Series

on

**Basics of Wind Turbines**

4th December 2020 10:00 AM IST

For Registration

To Register scan the QR Code or use the link below  
Vasudha Hegde: Hello, Department of Electrical and Electronics Engineering, NMIT, B...  
posted in InpDISCUSSION / General at Dec 1, 2020 10:15 AM

Key Speaker  
Mr. Rama Prashantha Holla K,  
Manager - Global Electrical Engineering (NPP) at KK Wind Solutions, Bengaluru, India

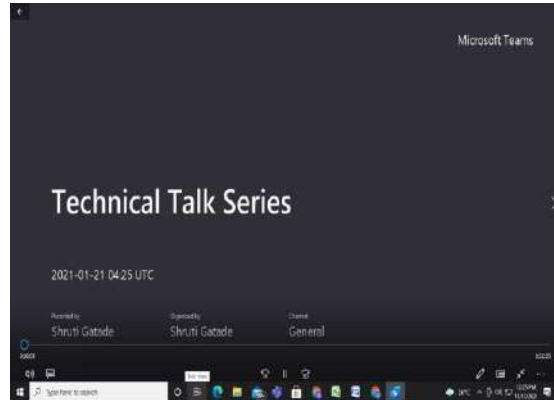
Further enquiry contact: 9886550556  
Website: www.nmit.ac.in

**Mrs .Shruti Gatade and Mrs. Sowmya Raman**  
Co-ordinator s

**Dr. Vasudha Hegde**  
HoD, Dept of EEE

## Introduction to Electric Vehicle

- Mr. Balasubramanyam Padmanabha Chief Manager at ADAS Unit Continental introduced students to Electric Vehicles its evolution and its working and its prospects in future.
- 32 students attended this online talk.



Mrs .Shruti Gatade and Mrs. Sowmya Raman  
Co-ordinator s

Dr. Vasudha Hegde  
HoD, Dept of EEE

## Digital IC Design

- Mr. Shiram H S, Senior Software Engineer at Cisco spoke on the topic titled Digital IC Design.
- In his talk he covered areas like fabrication process, core semiconductor product design, types of systems and common terminology in ICs.
- Students from 3<sup>rd</sup> and 4<sup>th</sup> year were benefited from this talk.

**NITTE** EDUCATION TRUST | **NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**  
(ACCREDITED BY MBA & NAAC 'A')  
Govindpur, Gollahalli, P. B. No. 6426, Yelahanka, Bengaluru 560 061, Karnataka Phone: 080 - 22974000  
Department of Electronics & Electronics Engineering,  
Nitte Meenakshi Institute of Technology, Bengaluru - 560 064

is organizing  
Alumni Technical Talk Series  
on

# Digital IC Design

Resource Person  
**Mr. Shiram H S**  
Senior Software Engineer  
Cisco

On Saturday,  
June 19<sup>th</sup>,  
2021, 11:30 AM  
Onwards

For Enquiry Contact:  
**+91-98865-50556**  
Website: [www.nitte.ac.in](http://www.nitte.ac.in)

nvu-saah-yja (2021-06-18 at 23:46 GMT+7)

### Segments

Core Semiconductor Product Design

Global Markets Involving Systems & Solutions

- Consumer IOT
- Industrial Automation
- Automobiles
- Aviation & Space
- Defense
- Healthcare
- Finance

Diagram illustrating the segments of Core Semiconductor Product Design:

```
graph TD; A[IC/Component Design] --- B[Board Design]; A --- C[PCB Manufacturing]; A --- D[Packaging]; B --- C; C --- D; B --- E[Testing]; C --- E; D --- E;
```

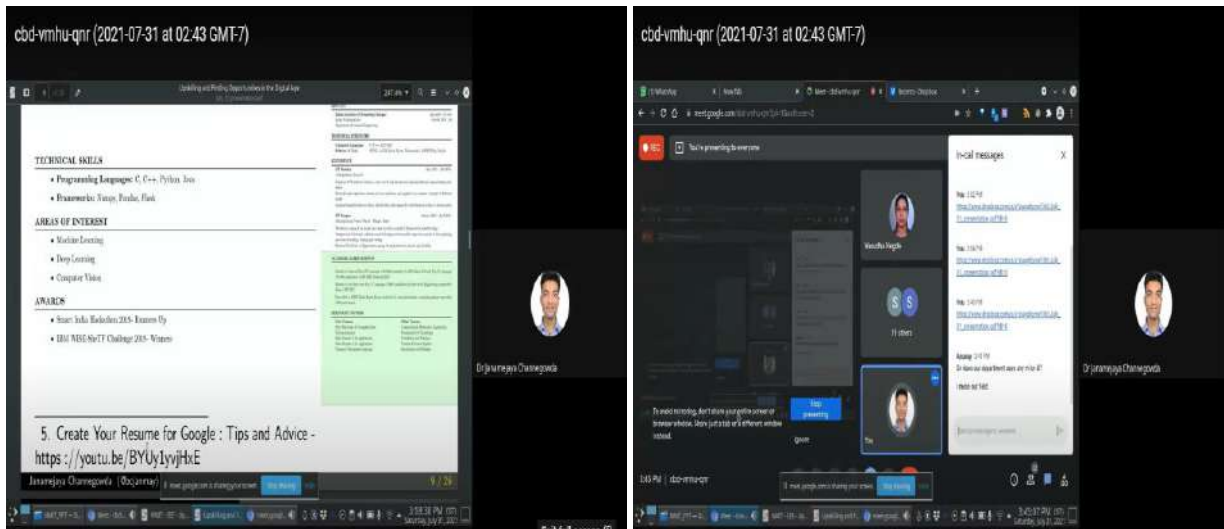
Exit full screen (F)

**Mrs. Shrutika Gatade and Mrs. Sowmya Raman**  
Co-ordinators

**Dr. Vasudha Hegde**  
HoD, Dept of EEE

## Up skilling and Finding Opportunities in the Digital Age

- Dr. Janamejaya Channegowda delivered a talk on Up skilling and Finding Opportunities in the Digital Age on 31<sup>st</sup> July 2021.
- He addressed students about writing company specific resume and also emphasized on creation of LinkedIn Profile and its benefits. Students of all the semesters attended the online session.



**Mrs .Shruti Gatade and Mrs. Sowmya Raman**  
Co-ordinator s

**Dr. Vasudha Hegde**  
HoD, Dept of EEE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION

IQAC Report Year 2020-21

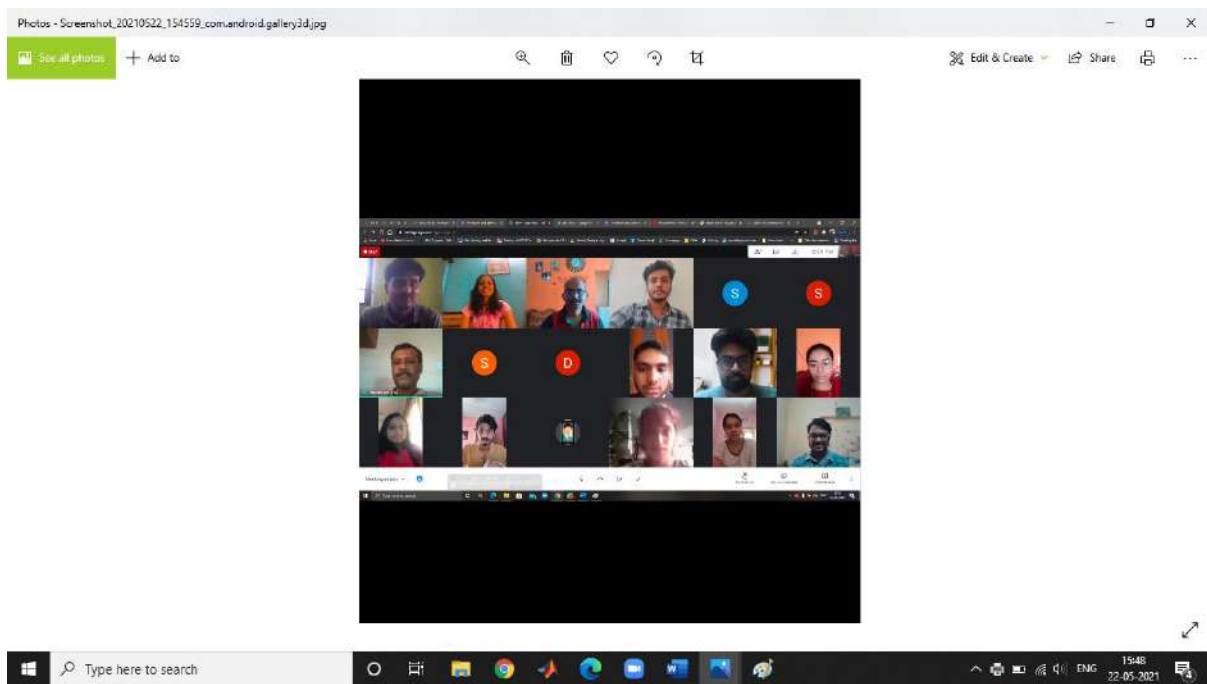
**1.Faculty Empowerment Program - Webinar on Research direction for Critical Research**

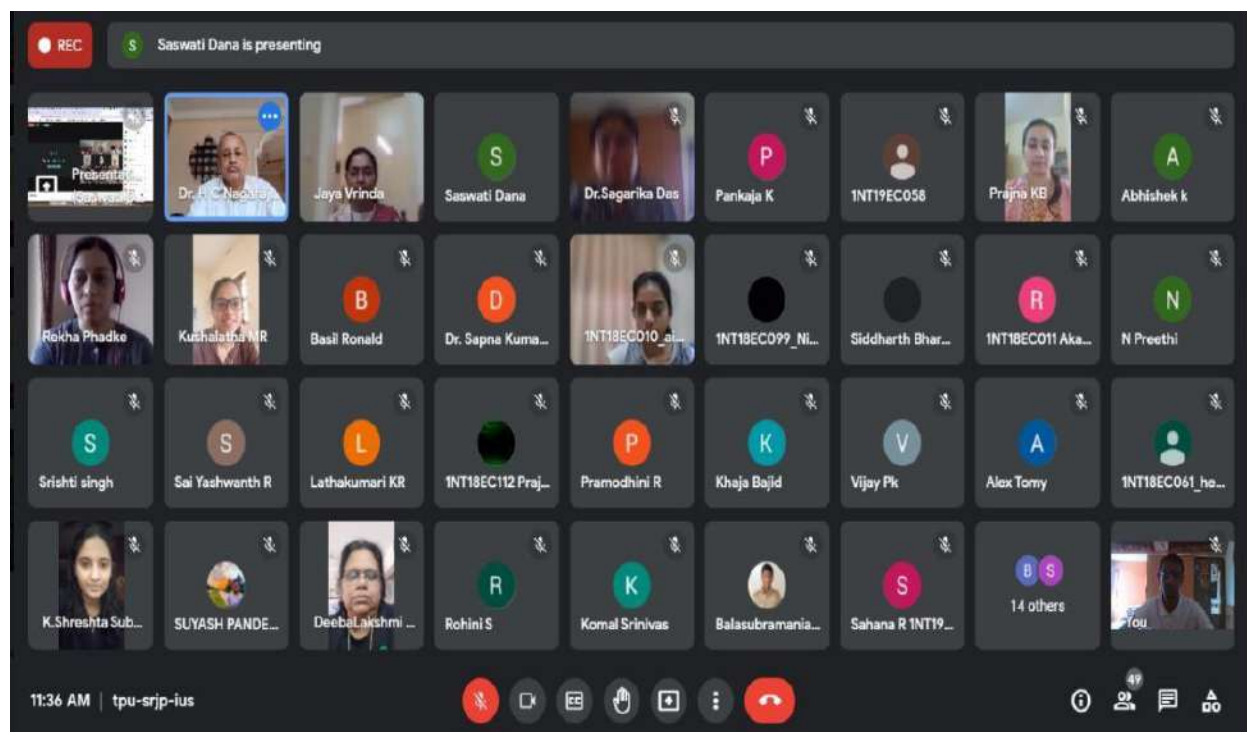
The Department conducted many webinars and Faculty Development Program to encourage faculty members towards research. Following are the webinars /FDPs conducted during AY 2020-21. Due to pandemic all were conducted in online mode only.

SI no	Title of the Webinar	Duration	Name of the resource person
1	Recent Technical Transformation in Agriculture Field” With the theme “Digital Transformation	21/05/2021 to 22/05/2021	Dr. Bhojaraja. B.E. Designation: Associate Professor, Department of Civil Engineering, NMAMIT, Nitte, Karkala, Mangalore
2	Technical Talk on LaTeX	09/06/2021 to 10/06/2021	Mr.Manas Shetty, NITK Surathkal.
3	Machine Learning: Introductions and applications and tools	19/06/2021	Dr.Saswati dana,Researcher at IBM India Research
4	Selected Topics in cloud Computing	05/06/2021	Prof.Sitaram Yaji
5	5G & Beyond - New Technologies Driving Mobile Communications”	29/05/2021	Dr. M.H. Kori
6	Recent Developments in Antenna Technologies for 5G systems.	02/11/2020-06/11/2020	Dr.S.Raghavan, Professor,NIT Trichy. Dr.Akhilesh Mohan,Associate Prof,IIT Kharagpur Prof.K.J.Vinoy.Professor,Electrical &Comm Dept,IISc,Bangalore Dr.Mahesh, Associate Professor, RVCE,B’lore. Dr.Karthikeya G.S,Project Scientist, CARE ,Delhi
7	Advanced Antennas and UAV for Aircraft systems under IETE Bangalore	22/2/20	Mr. Diptiman Biswas



## Photos of few webinars/FDP





## 2. Feedback on Faculty from Students

Student feedback on teaching is an important element in improving the quality of teaching. In this view feedback is collected from every student twice a semester through on-line tool after MSE1 and MSE3.

few Sample questions are

1. Faculty is regular to the class
2. Faculty is on time and engages full period
3. The topics covered were well organized
4. Lectures were relevant to curriculum and course outcomes.

## 3. MSE QP Quality Internal Review

HOD in accordance with academic calendar, will conduct a meeting with course coordinators and subjects' teachers for MSE QP setting

- Course coordinators and subject teachers should have the following documents for setting of the question paper

- ✓ Syllabus
- ✓ CO-PO
- ✓ Blooms taxonomy
- ✓ Templates for the question papers
- Setting of question papers and scheme by the subjects teachers to be submitted to DUGC in a sealed envelope.
- Question papers will be scrutinized by DUGC members; any changes in the question paper suggested for further modifications will be done in accordance with course coordinators.

SAMPLE OF MSE QP REVIEW BY DUGC Members is given

Subject Name	Question	Rating from External (1 being Poor and 5 being Very good)
Control Systems	Type of questions; with respect to clarity, precise and unambiguous, well within the comprehension of the student	5
	Design of the QP with respect to concepts, length of answers and relative Marks weight age	4
	Structure of the questions with respect to Blooms taxonomy level of the associated CO and difficulty level	3
	Toughness level of the question paper	3
	Scope of understanding and learning the given topic.	4
	Discriminating good learner and poor learner	4
	Scope for the critical thinking. If the CO is at Apply, Analyse or higher level, does the question assess critical thinking?	4

### 3. MSE QP Quality External Review

The MSE QP were sent for review to external panel members. Over all comments and suggestions in common for all subjects from the expert panel are as follows Application of concepts could be given some thoughts while framing questions.

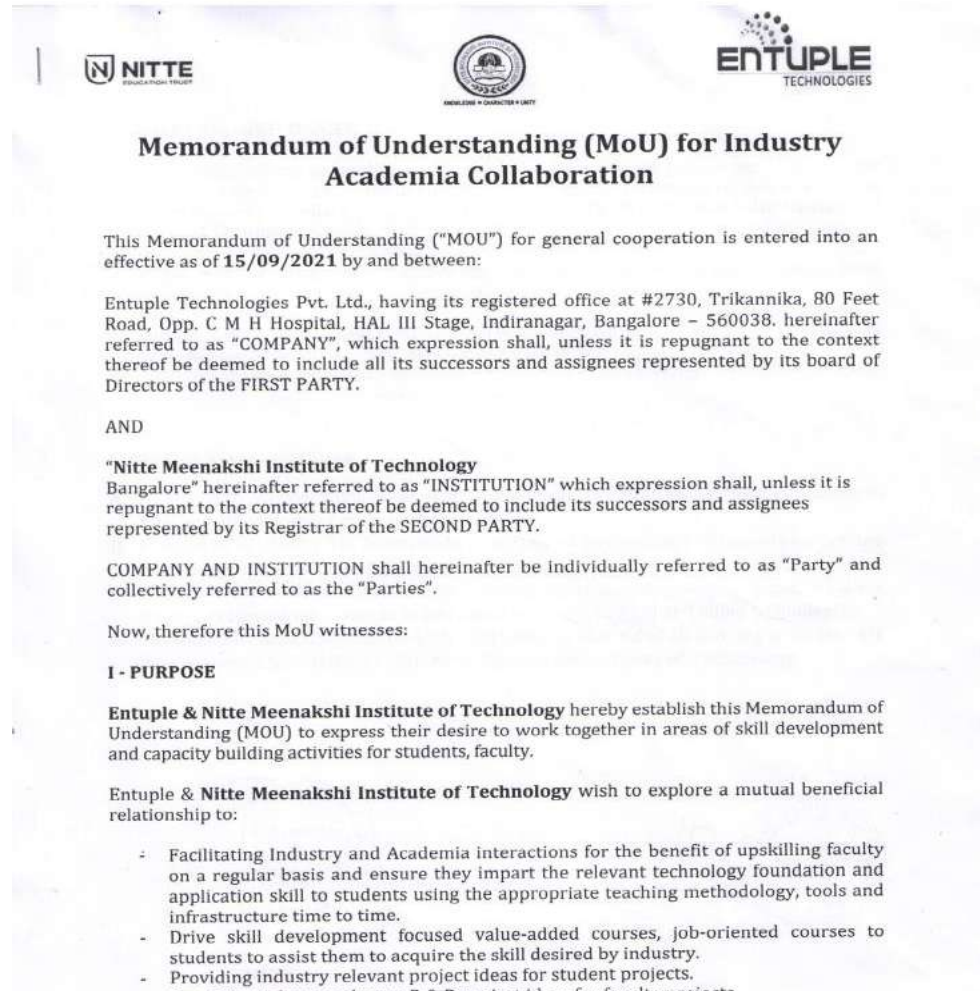
Application of concepts could be given some thoughts while framing questions for example what is the power efficiency achievable of a AM and why or give some numerical which evaluates to values not possible to achieve and ask why not possible and what would you do to take care of the situation and so on would have been more challenging.

Q4 could be rephrased as: Applications of concepts could be given emphasis, for eg. for a certain application xxxx a bit generator is requires to be designed with properties aaa,vvv,xxxx and so on. Select a bit generator to do this and design a circuit for the same.

For Q2 A circuit provides output under these conditions: Condition 1: .... Condition 2 .... and so on. Design a circuit for the same. This way the students will get to know the relevance of concepts.

## 4. Review of Industry-Department Interaction (Department Wise)

In the AY 2020-21 the Department has MOUs with Entuple Technologies, KPIT and Capgemini. The MOUS are shown below



- 8) In case of termination of agreement by **Nitte Meenakshi Institute of Technology**, the institution is obliged to give an undertaking stating that any part of training content IP including source content, illustrations, design case studies will not be used/reproduced in any format without prior written permission for any training related activities the institution might choose to offer and execute either independently or in collaboration with any other 3<sup>rd</sup> party. Violation of this may warrant legal implications subject to the discretion of Entuple Technologies Private Limited, Bangalore.
- 9) The termination hereof shall not serve to release a Party from the performance of such of its obligations as may have arisen prior to termination.

In WITNESS WHEREOF, the Parties have caused this MOU to be signed by their duly authorized representatives as of the MOU effective date above.

WITNESSES:

*Rinjane*  
(Dr. S. L. PINSARE)

*Somashekar*

For Nitte Meenakshi Institute of Technology

For Entuple Technologies  
Pvt. Ltd.

Name: **Dr. H. C. NAGARAJ**  
Designation:

Name: **Damodara M.S**  
Designation: **Business Manager**

Signature: *H. C. Nagaraj*  
Date: **15.09.2021**

Signature: *M*  
Date: **15/09/21**

Principal  
Nitte Meenakshi Institute of Technology  
Govindapura, Yelahanka,  
Bangalore - 560 064.



## 5. Final year student project problem statement review

The final year project Phase – 0 presentation for the review of problem statement was conducted on 24<sup>th</sup> - 25<sup>th</sup> March 2021. The following are the details and outcomes of the same.

- Number of panels for the Phase -0 evaluation: 02
- Number of coordinators for each panel: 01
- Number of project batches given the Phase - 0 presentation: 61
- Number of batches having THREE students: 18
- Number of batches having TWO students: 06
- Total number of batches: 62

The projects rejected during Phase – 0 presentation are shown in below Table

<b>Batch No.</b>	<b>USN</b>	<b>Name</b>	<b>Section</b>	<b>Project Title</b>	<b>Domain</b>
7	1NT17EC006	Akshata	B	Segregation and Grading of Arecanut using Image Processing	Signal Processing
	1NT17EC025	Bavishetty Harivandana	B		
	1NT17EC041	Gayana S	B		
	1NT17EC064	Krupa K Rao	B		
16	1NT17EC080	Nancy Kumari	B	Distress Detection	Signal Processing
	1NT17EC097	Prajwala M S	B		
	1NT17EC077	Muhammad Rayyan Delvi	B		
25	1NT17EC117	Rashmi H N	C	Photolethysmogram feature extraction for circulatory and respiratory monitoring	Communication
	1NT17EC145	Sonal Patel	C		
	1NT17EC061	Kiranmai G K	B		
49	1NT18EC430	Suhas K	C	Smart system for documents verification using IoT to ease for drivers and police	Intelligent Computing
	1NT17EC067	Madhuri J	C		
	1NT17EC125	Sahana S	C		
	1NT17EC132	Sangeetha M	C		
50	1NT17EC083	Nikhil H R	C	Water quality monitoring system using embedded system and machine learning	Intelligent Computing
	1NT18EC418	Muttanna S Belagal	C		
	1NT18EC425	Rakesh C R	C		
	1NT18EC405	Chandan V	C		
58	1NT17EC005	Akash S.	A	FM radio receiver with digital demodulation using FPGA.	VLSI

- The projects title changed after Phase – 0 presentation are shown in below Table.

Batch No.	USN	Name	Section	Initial Project Title	Current Project Title
26	INT17EC175	Vinayaka S M	C	Biometric voting machine based on fingerprint scanner and Arduino	IoT based anti-poaching of trees and protection of forest
	INT17EC170	Vijay Kumar M	C		
	INT17EC141	Shreyas S	C		
	INT17EC174	Vinay R	C		
29	INT18EC428	Sanjay V	C	Digital Door Scanner	Smart wearable kit for soldiers
	INT17EC179	Chayank Y R	C		
53	INT17EC082	NikhilG	C	Spam Review Detection with Amazon reviews	Spam review detection using machine learning
	INT17EC115	RanganathMR	C		
	INT17EC133	SanjayG	C		
	INT17EC134	SanjeevS	C		
18	INT17EC084	Nikhil Kumar	B	Automatic Alert System for Car's Cabin Temperature	Virtual eye for visually impaired
	INT17EC127	Sai Swapnesh	B		
	INT17EC098	Prashant Kumar	B		
	INT17EC073	Faizan Alam	B		
39	INT17EC120	SGita	C	Detection of COVID-19 virus from chest x-rays using convolutional neural networks	Deep CNN for the detection of COVID – 19 using chest X - rays
	INT17EC137	Sheetal D Sulakhe	C		
	INT17EC138	ShivaniM	C		
	INT17EC081	N N Nisar	C		
40	INT17EC147	Srishti Singh	A	Crime Vigilante	Crime analysis and forecasting using ML algorithm
	INT17EC156	Tanisha Banerjee	B		
42	INT17EC008	Akshitha N	A	Industrial Automation	Visual assistant for visually impaired
	INT17EC048	H Priya Nandish	A		
	INT17EC049	Harakabhavi Matt Shrunga	A		
52	INT17EC039	Gagan Karthik S	A	Video Processing and Hardware Optimization for Real Time Analysis	Video processing and hardware optimization for real time analysis
	INT17EC146	Srinath Ramachandran	A		
	INT17EC161	Thribhuvan Gupta S	A		
62	INT17EC023	Balmukund Kumar	A	Smart Police Barrier	Automatic road sign detection and recognition for unmanned vehicle
	INT17EC019	Ashutosh Kumar	A		
	INT17EC182	Shaik Hafiz Atif	A		
	INT17EC022	B Subbareddy	A		
6	INT17EC095	Prajwal N Kashyap	B	Power Generation Using Piezoelectric Materials	Circular patch antenna for 5G applications
	INT17EC070	Mallik R	B		
	INT16EC016	Aravind U	B		
10	INT17EC094	Poojitha R Rao	A	ROP Detection using an app	RF amplifier circuit design in microwave frequency region
	INT17EC072	Manogna N S	A		
	INT17EC069	Mahima N	B		
18	INT17EC084	Nikhil Kumar	B	Automatic Alert System for Car's Cabin Temperature	Virtual eye for visually impaired persons
	INT17EC127	Sai Swapnesh	B		
	INT17EC098	Prashant Kumar	B		
	INT17EC073	Faizan Alam	B		
31	INT17 EC009	Alifa Nasrin	A	Turbo code	Design and simulation of turbo codes
	INT17 EC015	Apeksha A Parvati Kar	A		
	INT17 EC020	Atharva Chipde	A		
34	INT17EC026	Bharath N Raikar	A	Forecasting rate of Farmers in Distress using ML Algorithms	Agricultural drought prediction using machine learning
	INT17EC100	Prathika	C		
	INT17EC106	Rachana V	C		
47	INT17EC183	Elroy Noronha	B	Surveillance Camera using IoT	Brain tumour detection using deep learning
	INT17EC184	Pranit Pathak	B		
48	INT17EC105	Rachana Pai	A	Drug networking	Targeting the molecular network of drugs for prediction of drug drug interaction
	INT17EC091	Pavitra B Danad	A		
	INT17EC128	Sameep Pai K S	A		
	INT17EC143	Shreesha S Bhat	A		
51	INT17EC165	Maheedhar	A	Smart Chair	Voice controlled wheel chair with patient monitoring system using cloud
	INT17EC178	Yatish Raj	A		
	INT17EC162	T.U.Monica	C		
54	INT18EC421	Omprakash,T	C	Eco friendly reward system	Smart helmet using GSM, GPS and WiFi technology
	INT18EC431	Tilak Kumar.A	C		



	INT18EC414	Kiran Ds	C		
	INT18EC426	Saba Reddy	C		
59	INT15EC114	Pooja Singh	B	FPGA Implementation of Brain Tumor Detection Using Lifting Based DWT Architectures	Regenerative braking system
	INT16EC089	Nikhar Gupta	B		
	INT16EC103	Pradyumna K V	B		
	INT16EC119	Rekha Reddy E	B		

## 6. Preparation of the Course Handout format and review.

During the beginning of academic year HoD reviews the file of every faculty. Following are reviewed

Syllabus of subjects allotted Lesson plan, Student's list, academic calender and course materials.

## 7. Department Wise Review of Research Status

Dept Colloquium is scheduled every month in the dept. Faculty members pursuing/ reg for PhD are required to present their ideas as the topic for colloquium. This helps other faculty members to understand the recent areas of research.

Faculty members have to give their domain related problem statement to final year project batches. Critical review is performed for final year UG project for publication. Guide has to take care that every batch project outcome is a research article published in conference or journal. Last year our dept had around 10 UG project papers accepted In ERCICA papers.

## 8. Meeting with Parents

Mentorship programme is an integral dimension of our College/Department activities with the objective to inculcate qualities like personal, social and career effects among individuals.

### Mentor:

Mentors are advisors, friends, good listeners, genuinely interested in helping the student achieve college goals, and ready to assist a mentee network with people and open doors to new opportunities.

The Role of Mentoring in College Access and Success explains

- a learning partnership between a more experienced and a less experienced individual
- a process involving emotional (friendship, acceptance, support) and instrumental (information, coaching, advocacy, sponsorship) functions, and

➤ a relationship that become more influential to both parties over time.

### Department Mentor-mentee Network:

NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION MENTORS LIST 2021-22		
HOD, DEPT OF ECE		
MENTOR CO-ORDINATOR		
2nd YEAR	3rd YEAR	4th YEAR
<b>CLASS TEACHERS</b>	<b>CLASS TEACHERS</b>	<b>CLASS TEACHERS</b>
A: Mrs. Bhuvaneshwari B: Mrs. Beena C: Dr. Sapna	A: Dr. Shilpa Mayanna B: Ms. Pragna C: Ms.	A: Mrs. Latha B: Mrs. Chaitra C: Mrs. Seema
<b>MENTORS</b>	<b>MENTORS</b>	<b>MENTORS</b>
<b>A SECTION</b> M1: Bhuvaneshwari V M M2: Dr. Sunil	<b>A SECTION</b> M1: Mr. Sathisha M2: Dr. Prasanna M3: Dr. Shilpa Mayannavar	<b>A SECTION</b> M1: Dr. Prashantha M2: Mrs. Latha M3: Dr. Manjula B M
<b>B SECTION</b> M1: Mrs. Beena M2: Mrs. Kushalatha	<b>B SECTION</b> M1: Mrs. Pragna Dr. Sowmya Madhavan M3: Mrs. Smitha	<b>B SECTION</b> M1: Dr. Vishwanath M2: Dr. Thimmaraju M3: Mrs. Chaitra
<b>C SECTION</b> M1: Mrs. Naina M2: Dr. Sapna	<b>C SECTION</b> M1: Mrs. Diya M2: Mrs. Aayesha M3:	<b>C SECTION</b> M1: Mrs. Nithya M2: Dr. Karunakar Fai M3: Mrs. Seema
NOTE: M1: MENTOR 1 M2: MENTOR 2 M3: MENTOR 3		

Parents teachers is conducted twice a semester. The minutes of the meeting and the proof for the same is given below.



**NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**  
Yelahanka, Bangalore-560 064  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**



## **CIRCULAR**

Date: 12-02-2021

The Parent teacher meeting is scheduled on 12 -02-2021(Saturday) at 9.00am. Based on the data given by all faculties in their respective mentor report, a consolidated list reflecting back log, not eligible, year lost student is prepared. Kindly inform their parents to attend the meeting via mail, phone and gurukul tool to discuss their performance issues and to improve the same. Kindly give me the status of those parents who are going to attend the meeting before Wednesday.

*Manasa*  
HOD,ECE

Minutes of Meeting	DESCRIPTION: Parent and Teacher Meeting	Year: 2017-18	Date: 12/02/21	Page 1/1
				

A Parent and Teacher meeting was organized by department of ECE on 12-02-2021. The meeting was headed by the HOD in the presence of class teachers, mentors and parents. The HOD gave an introduction about our department, vision and mission of the college and department, PO's, CO's and the technical activities taking place in our department.

The HOD discussed the following points with the Parents:

**Discussed points:**

1. Mid Semester Examination
2. Semester end Examination
3. Project CIE
4. Supplementary/Make-up examination
5. Feedback about online classes
6. Feedback about execution of online test
7. Placement issues
8. Fee due

1. If students have any problem with respect to any subject, the parent or the student should inform their mentors. Mentors will inform the HOD and HOD will inform respective subject teachers and take necessary steps to help the student.  
**Action Plan:** HOD and Mentors

2. Conduction of Tutorial/ Remedial classes for difficult subjects.  
**Action Plan:** Mentors and Subject Teachers

3. Performance tests will be given to students who have got less than 12 marks in

4. The HOD advised parents to check whether their wards are writing and practicing the subjects which involve more derivation and problems and attend classes on regular basis without fail. This will help their wards become academically strong and have good writing speed in the exam.

The following feedbacks were given by the parents:

1. Procedure, conduction and inputs on final examination
2. Parents suggested that more Reading materials should be given to the students. The notes should not be circulated on Whatsapp or mail.
3. Inputs on adapting Covid measures in college and hostel premises.
4. Parents mentioned that tool to monitor their wards performance should be updated.
5. Parents were more eager about conduction of all Examinations (Lab examinations, SEE examinations) and placement activities

  
Mentor Coordinator

  
SIGNATURE OF HOD

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

MENTOR – PARENT MEETING

Date: 12/2/2021

Sl.No	Student Name	Parent Name	Sem and Year	Mentor Name	Signature of Parents
01	Adithya V	E. Sankar	III Sem / 2020	H. Prasad	[Signature]
02	Sandeep M	Manjanna	I Sem / 2020	Ms. Pragna	[Signature]
03	Vinoda G	Gowdharaj	I Sem / 2020	Mrs. Sugavada	[Signature]
04	Niroop C	Chandrasekhar	I Sem / 2020	Saamir M	[Signature]
05	Himesh Anu	Shubha	I Sem / 2020	Hishida	[Signature]
06	H.V. Sathya	Christy	I Sem / 2020	Prasanna	[Signature]
07	Prasidh R	Vidya Prabh	5 <sup>th</sup> Sem	Shashibharth	[Signature]
08	Prabh G	Srinidha	5 <sup>th</sup> Sem / 2020	Rakshana	[Signature]
09	Sahana R	Ramamurti	III <sup>rd</sup> Sem / 2020	Dipti Man	[Signature]
10	Pratik K	Ms. Manjula	4 <sup>th</sup> Sem / 2020	Saithan Prath	[Signature]
11	Murari M	Flora	5 <sup>th</sup> Sem / 2020	Sa. Shashibharth	[Signature]
12	Chayank V	Kalpna	5 <sup>th</sup> Sem / 2020	G. Divya	[Signature]
14	Bianca	Nayana	7 <sup>th</sup> Sem (4 <sup>th</sup> yr)	Manjula	[Signature]
15	Gautham P	R. Prakash	5 <sup>th</sup> Sem	G. Divya	[Signature]
16	Jyothishree	Srinivas	5 <sup>th</sup> Sem	G. Divya	[Signature]

[Signature]  
Name & Signature  
Mentor Coordinator

[Signature]  
(Name & signature)  
HoD

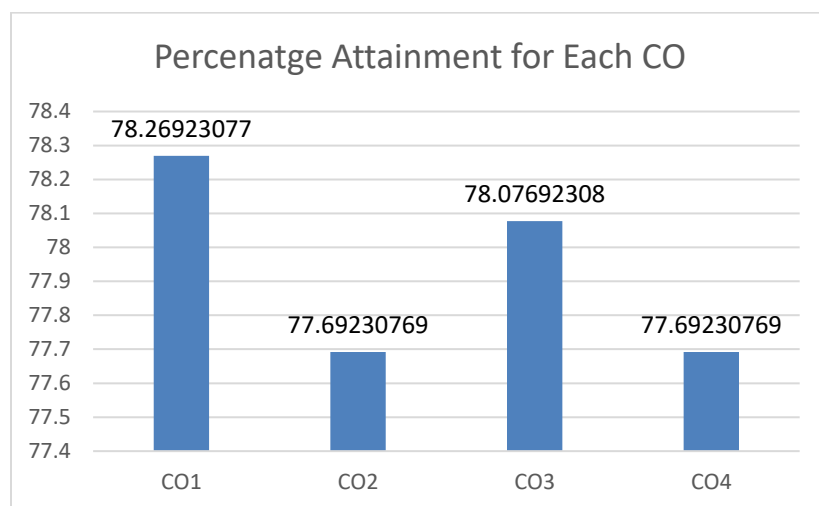
## 9. Conduction of Program Exit Survey and Alumni Survey

### Course Exit Survey:

- This survey is conducted for every subject at end of the semester. Each question will be mapped to the CO. Each question will be evaluated in 4 scales Excellent 2. Very Good 3. Good 4. Satisfactory 5. Poor)
- **Implementation:** Google Forms links are sent to the students by the subject teacher and their response are recorded.
- The student who evaluated themselves as top 2 levels (Excellent and Very good) are considered as attained.
- Course exit survey for subject Wireless communication is shown

Q.NO	Questions	CO
1	Did you acquire the knowledge of frequency reuse concept by making use of allotted bandwidth ?	CO1
2	Are you able to apply knowledge of mathematics, probability theory, and statistics to model analyze wireless communication ?	CO1,CO2,CO3
3	Do you have basic understanding of wireless communication systems at the physical layer level ?	CO1,CO4,CO5
4	Are you in a position to acquire familiarity with the state of the art technologies like GSM, CDMA and personal communication systems, in addition to an ability to understand the advanced wireless technologies like wireless LAN , wireless MAN, PAN, Bluetooth etc.	CO4,CO5

CO attainment through Course Exit survey for the same subject is shown



### Alumni Survey:

- Constructive suggestions are taken from Alumni, based on their experience in place of your work may be as an entrepreneur, educationist or in industry. Each question will be evaluated in 4 scales (1. Excellent 2. Good 3. Fair 4. Weak).
- **Implementation:** Google Forms links are mailed to the Alumni and their responses will be recorded.
- Alumni Survey responses sample for the year 2020-21 is as shown

Alumni survey NMIT(2017-21) (Responses) ☆ 📄 🗑

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AC1 6). Relevance of curriculum in your Professional career.

	U	V	W	X	Y	Z	AA	AB
1	Feedback ... FOR THE I	1. What is your current P	2. Are you an Alumni Ass	1). How the program help	2). The program helped y	3). The knowledge gaine	4). Contribution of the prc	5). Memorable sta
2	Na	Employed	No	Fair	Fair	Fair	Fair	Weak
3	NA	Employed	No	Fair	Good	Good	Good	Good
4		Employed	No	Excellent	Excellent	Fair	Excellent	Good
5		Employed	No	Good	Good	Good	Good	Good
6	none	Employed	No	Good	Good	Good	Good	Good
7	Provided very good study	Employed	No	Excellent	Excellent	Excellent	Excellent	Excellent
8		Employed	No	Good	Excellent	Excellent	Good	Good
9	Everything seem to be at	Employed	No	Good	Excellent	Good	Excellent	Excellent
10		Higher studies	Yes	Excellent	Excellent	Excellent	Excellent	Excellent
11		Employed	No	Excellent	Excellent	Excellent	Excellent	Excellent
12		Employed	No	Fair	Fair	Fair	Fair	Weak
13	Faculties are good.	Higher studies	No	Fair	Excellent	Excellent	Excellent	Excellent
14		Employed	No	Excellent	Good	Excellent	Excellent	Excellent
15		Employed	No	Good	Good	Good	Good	Excellent
16		Employed	No	Fair	Fair	Fair	Fair	Fair
17		Employed	Yes	Good	Good	Good	Good	Excellent
18		Employed	Yes	Good	Good	Fair	Good	Good
19		Employed	Yes	Excellent	Excellent	Excellent	Excellent	Excellent
20	na	Employed	Yes	Good	Good	Good	Good	Good
21	Nothing	Employed	Yes	Excellent	Excellent	Excellent	Excellent	Excellent
22		Employed	No	Good	Good	Good	Good	Good
23	Could have focused more	Higher studies	No	Good	Good	Good	Good	Good
24	Need more assistance to	Employed	No	Fair	Fair	Good	Fair	Good
25		Employed	No	Fair	Good	Good	Good	Good

If the alumni opt for top two levels of the survey questionnaires, then the alumni is said to attain the respective Program outcome..

## 10. Student-centric activities report

Skill Development Program on “Digital System Design using Verilog” was Conducted Between 05/05/2021 to 26/05/2021) *In association with* Entuple Technologies for 3<sup>rd</sup> year engineering students. The resource preson was **Shivappa K Madegowda** Co-Founder and Director at Excel VLSI Technologies Pvt. Ltd

The schedule of the program is as follows.

Date	Time	Theory Session	Lab Session	Outcome
05 May & 07 May	06:30 PM - 08:30 PM	Introduction to VLSI, ASIC and FPGA Flow	Digital fundamentals	Complete understanding of ASIC flow and FPGA flow
10 May & 12 May	06:30 PM - 08:30 PM	Digital design stages, Verilog Program structure, Verilog constructs	Verilog Syntax	Learning Verilog constructs
14 May & 17 May	06:30 PM - 08:30 PM	Design of combinational circuits using Verilog	Assignment on combinational circuit design	Combinational circuit design using Verilog
19 May & 21 May	06:30 PM - 08:30 PM	Design of Sequential circuits using Verilog, Timing	Assignment on sequential circuit design	Sequential circuit design using Verilog
24 & 26 May	06:30 PM - 08:30	Design of State machines, Introduction to Verification, Verification using Verilog, AMBA APR Protocol, Low power techniques	APB based Memory design and Verification, Designing finite state	Understanding modeling of a protocol state machine, Writing Test bench for a given design

11. Slow and fast learners -Action taken

### **11.Fast learners Action taken**

Industrial visits provided the students with an opportunity to learn practically through interaction, working methods and employment practices. Visit enhanced the students an exposure to current work practices as opposed to theoretical knowledge being taught at their college classrooms. Students were able to:

- Opportunity to interact with Industry Experts
- Enhanced employability
- Management Lessons

Interpersonal skills enhancement

### **Slow learners Action taken**

Tutorial/Remedial classes are scheduled for critical subjects. Additional assignments and tests are conducted for them. Extra practice labs are conducted for such students. In our dept Analog circuits lab, Digital Electronics lab, LIC lab, PE lab practice session are conducted from 5.30pm-8,30 pm for students.



## NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institute Affiliated To VTU – Belagavi

With A+ Grade by NAAC, Approved by UGC / AICTE / Government of  
Karnataka, Bangalore)

### DEPARTMENT OF MANAGEMENT STUDIES

#### 1. Faculty Empowerment Program- Webinar on Research direction for Critical Research

In a globalised world, the role of research in an academic institution is significant for its sustainability and development, and it is imperative to have knowledge-driven growth based on innovation. The quest for knowledge is the basic principle behind research. The quality of research work directly translates to the quality of teaching and learning in the classroom, thereby benefiting the students, the society and the country. The one of the prime aims of the department of management studies is to cultivate research-based approach for improved classroom teaching, underpin professional-learning of knowledge and understanding.

In the same notion department of management studies conducted various research-oriented faculty development programs. The Department of Management Studies Organised a two day International conference on “ Innovative Management Practices: Growth to Survival Tactics- Impact of Covid -19 on 09th and 10th December 2020. Mr. Brijesh Krishnan , Senior Vice President and Unit Head, Digital Engineering, Former Associate Vice President at Infosys was the chief guest for the inauguration and Dr. Claret Mendonca, Head PG Department of Business Administration, Alva’s Institute of Engineering & Technology, Moodbidri was the chief guest for the Valedictory of international conference.



Glimpse of two day International conference

Department of Management Studies Conducted Four Days Faculty Development Program on Research Methodology from 2nd December-5th December 2020.

Chief Guest of the FDP was Dr. Rashmi Kodikal, Professor, MSNM Besant Institute Of PG Studies, Mangaluru. Ms Sumitha Achar, Statistician & Professor, St. Aloysius College, Mangaluru. 88 faculty members/research scholars participated from various institutions.



Glimpse of four-day faculty development program on research methodology

Department of Management Studies Conducted Five Days Faculty Development Program on ‘Art of writing research paper for Refereed and Indexed journals’ from 14<sup>th</sup> December 2020 – 18<sup>th</sup> December 2020.



Glimpse of five day faculty development program on ‘Art of Writing Research Paper for Refereed and Indexed journals’

Department of Management studies organised Five-day Faculty development program on "Advanced Multivariate Data Analytics using R and structured equation Modelling using AMOS" on 21st June – 15<sup>th</sup> June 2021

**NITTE** EDUCATION TRUST | **NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**  
 Post Box No.: 6429, Govindapura, Gokulhalli, (Off International Airport Road, NH-7) Yelahanka, Bengaluru - 560064, Land Phone : 080-221667915/885/900/942/886

**Department of Management Studies**

**Organizes**  
 5 Day Faculty Development Program on  
**"Advanced Multivariate Data Analytics using R and Structural Equation Modelling using AMOS" (Virtual Mode)**

Date: 21<sup>st</sup> June to 25<sup>th</sup> June, 2021  
 Time: 10:00 AM to 01:00 PM

**Chief Patrons**  
**Shri. N. V. Hegde**, President, NET - Bengaluru  
**Prof. N.R. Shetty**, Chancellor- Central university of Karnataka, Kalburgi and Advisor- Nitte Education Trust, Mangaluru

**Advisors**  
**Dr. H. C. Nagaraj**, Principal, NMIT - Bengaluru  
**Dr. V. Sridhar**, Dean Academics, NMIT  
**Mr. Rohit Punja**, Administrator, NET - Bengaluru

**Convener**  
**Dr. Shilpa Ajay**, HOD, Department of Management Studies, NMIT - Bengaluru  
 Mb: +91 9900447462

**Program Co-ordinators**  
**Dr. Dharmananda M**, Assistant Professor, Department of Management Studies, NMIT - Bengaluru  
 Mb: +91 99642 44345  
**Ms. Jyothi G**, Assistant Professor, Department of Management Studies, NMIT - Bengaluru  
 Mb: +91 81478 98443

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## 2. Feedback on Faculty from Students

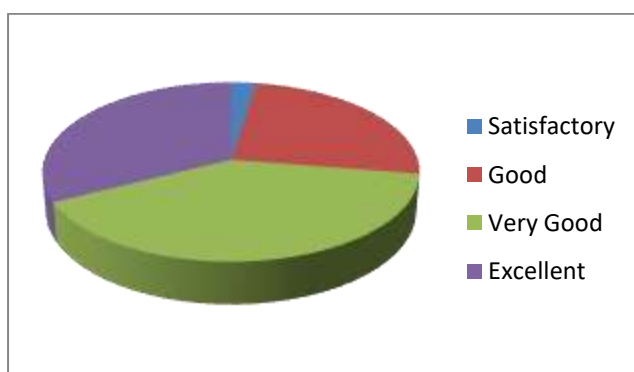
Students are important stake holders and their feedback plays a significant role in the revision of the curriculum. Feedback from students about their experience in higher education was a rarity. With the expansion of the university sector, the concerns with quality and the growing ‘consumerism’ of higher education there has been a significant growth and sophistication in, process designed to collect views from students regarding the curriculum and about the teachers. For the academic year 2020-21

Around 200 students gave their feedback about the curriculum and about the teachers

Analysis:

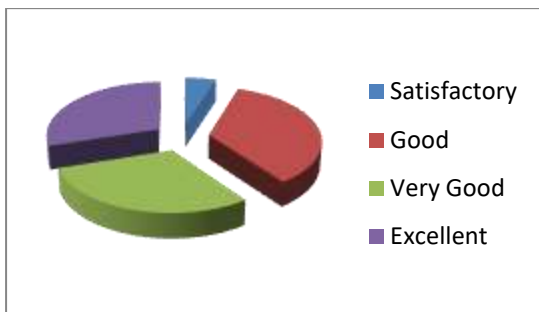
### 1. Content Of Course and relevance of the units

Satisfactory	Good	Very Good	Excellent
5	50	80	65



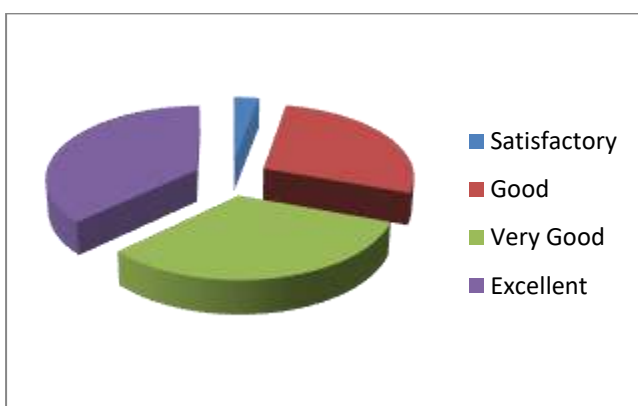
2 Electives offered in relation to the Technological advancement

Satisfactory	Good	Very Good	Excellent
10	70	60	60



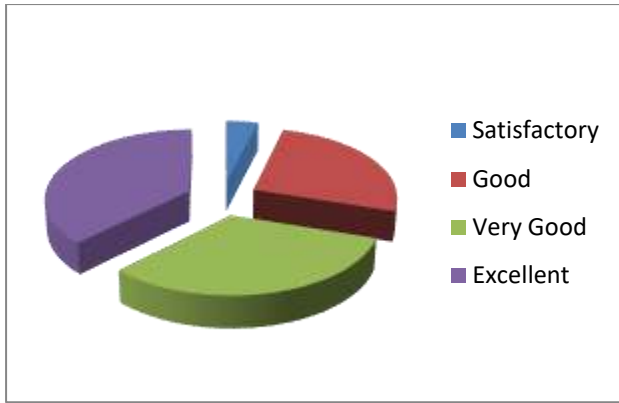
3 Applicability/ relevance to real life situations

Satisfactory	Good	Very Good	Excellent
6	55	65	74



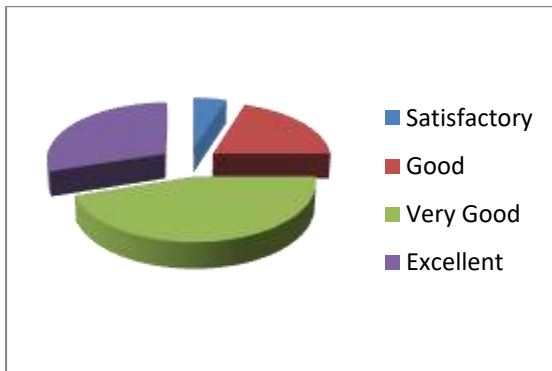
4 Size of the syllabus in terms of the load of the student

Satisfactory	Good	Very Good	Excellent
8	52	65	75



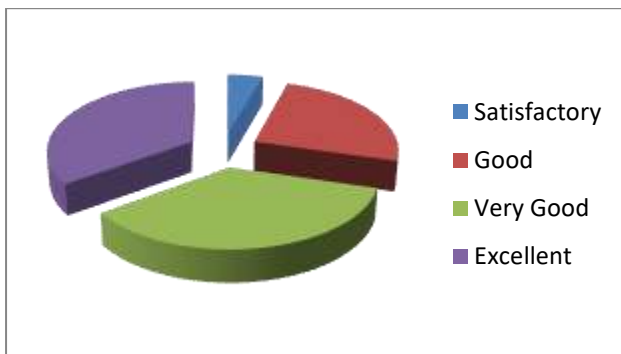
5 Interest generated by the faculty towards the subject

Satisfactory	Good	Very Good	Excellent
10	40	90	60



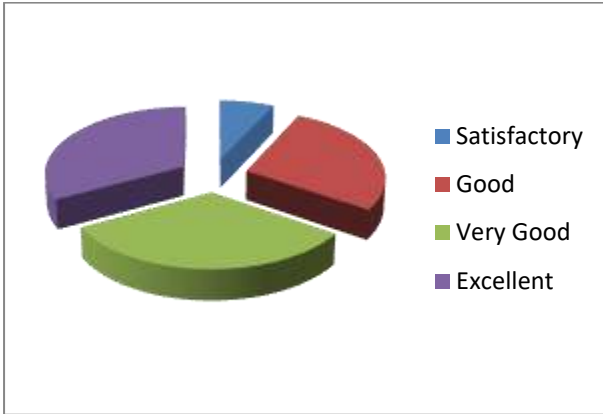
6 Communication skill (in terms of explaining the subject matter)

Satisfactory	Good	Very Good	Excellent
9	50	71	70



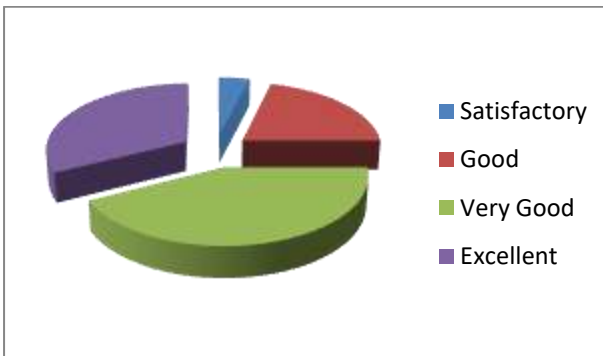
7 Overall coverage of the syllabus

Satisfactory	Good	Very Good	Excellent
14	55	65	66



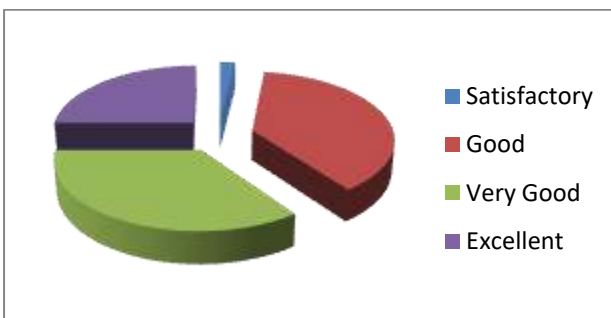
8 Ability to integrate course with environment / other issues, to provide a broader perspective

Satisfactory	Good	Very Good	Excellent
8	42	85	65



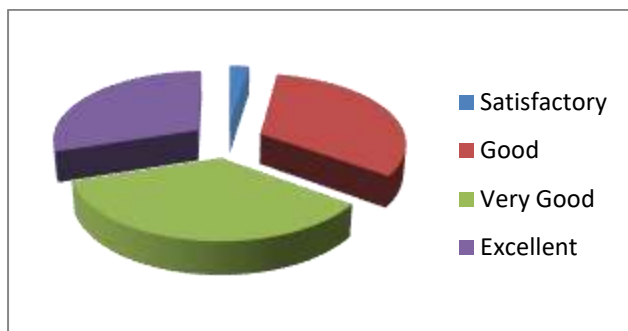
9 Does faculty clarify your doubts

Satisfactory	Good	Very Good	Excellent
4	76	70	50



## 10 Use of ICT (use of PPT, OHP, etc if applicable to the subject)

Satisfactory 5      Good 65      Very Good 70      Excellent 60



### Conclusion:

The above figures clearly indicate that students were satisfied with the course content, and with the in-depth nature of electives offered with respect to technological advancements. They were also satisfied with the effectiveness of the course related to inculcating knowledge concepts as well as vocational skills etc., The students were satisfied with library facilities, Internet facilities etc. offered by the Institution. They also pointed out that the curriculum is well designed to carry out research and extension activities which are of great help in their higher studies and career. Students on their feedback cherished the friendly approach of the faculties, which made them very comfortable and relaxed. They were satisfied by the approach of faculty outside the classroom which indicated the willingness of the faculty to go an extra mile for the welfare of the student community. The interest generated by the teachers in the subject captured the attention span of the students and encouraged those to be more involved in the learning process was indicated by an overwhelming of student community in the feedback. The students ascertained that their faculties were well equipped to the technological advancements by integrating teaching with ICT tools.

### 3. MSE QP Quality Review

Internal & External Review

Committee members for MSE-QP Quality Review

S.no	Name	Designation	Status
1	Dr. Shilpa Ajay	HoD	Chairman
2	Dr. Dharmananda M	Associate Professor	Member
3	Mr. Pavan Kumar	Assistant Professor	Member

**Objectives:**

1. Scrutinize the MSE question paper quality
2. To check for the adherence for blooms taxonomy in the question paper
3. To check whether the question paper is aligned with the syllabus covered.

**Action Taken:**

1. MSE-QP Quality Review Committee members had called for MSE Qp scrutiny meeting
2. Every meeting had been scheduled 3 days prior to the MSE conduction
3. The committee had thoroughly examined the quality of the question paper by checking whether questions for 3marks is in remember level of blooms taxonomy, 7 marks is in Understand level and 10marks and case study is an analyse or application based question
4. The committee had also checked for the blooms taxonomy verbs that are the used in the QP
5. If discrepancies are found the committee members had advised the faculty members to reframe the qp according the guidelines

**4. Review of Industry -Department Interaction**

The Department of Management studies have taken the following initiatives

Signed a **MoU with Indian Society for Training and Development (ISTD) chapter**. This will help the students to get trained to improve their communication skills, personality development and for placements.

The Department had organised a Two day International conference on “Innovative Management Practices: From Growth to Survival- Impact of Covid-19” held on 9<sup>th</sup>& 10<sup>th</sup> December 2020. Experts from industry were the resource persons for the conference. Many insights and knowledge sharing about the industry and current practices were shared. Participants from different companies and students, research scholars and teaching fraternity highly appreciated this initiative.

In the same notion department of management studies conducted various research-oriented faculty development programs. The Department of Management Studies Organised a two day International conference on “ Innovative Management Practices: Growth to Survival Tactics- Impact of Covid -19 on 09th and 10th December 2020. Mr. Brijesh Krishnan , Senior Vice President and Unit Head, Digital Engineering, Former Associate Vice President at Infosys was the chief guest for the inauguration and Dr. Claret Mendonca, Head PG Department of Business Administration, Alva’s Institute of Engineering & Technology, Moodbidri was the chief guest for the Valedictory of international conference.





Glimpse of two day International conference

## 5. Final Year Student Project Problem Statement Review

Project is an integral part of MBA program. MBA, NMIT is having 10 weeks Capstone project in MBA IV semester. The capstone project provides an opportunity to the students to apply theoretical concepts in real life situations at the work-place. Project helps students to familiarize them with the corporate code of behavior and in the process discover their professional strengths and weaknesses and align them with the changing business environment. The 10 weeks of project enable students to manage resources, work under deadlines, identify and carry out specific goal-oriented tasks thereby imbibing traits of a manager. It also helps students to sharpen the student's research and analytical skills.

In the capstone project student pursue one are of interest in depth and come up with compiled report of methodology and conclusion. The report should highlight what the student has attempted and why; the methods used to collect, collate, and analyze the information obtained; the mode of evaluation etc. Any suggestions made should be supported by the evidence presented and by logical argument using deductive and inductive reasoning.

In the capstone project student's preference is asked by the department. Students pursue their projects in the field of Finance, Marketing, Human Resource, Supply Chain and Business Analytics. Student selects one problem of the organization, market or from economy and continue with the research for 10 weeks. After the successful completion of the project, student submit hard bound report to the department followed by three presentation and final viva-voce. Project contents comprises of Industry profile, company profile, Research, methodology, Data Analysis, findings, Suggestions and Conclusion.

## 6. Meeting with Parents

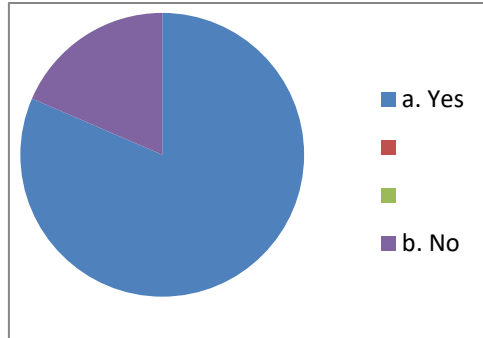
1. Are you aware of the syllabus of your ward?

a. Yes

44

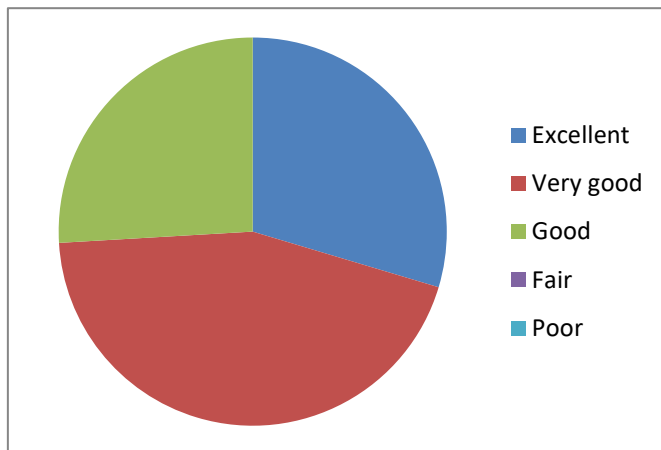
b. No

10



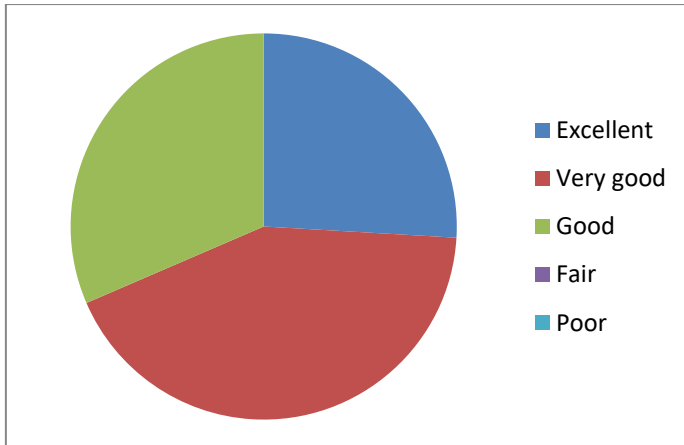
2. How do you rate the syllabus compared with the current Industry scope?

Excellent	Very good	Good	Fair	Poor
16	24	14	0	0



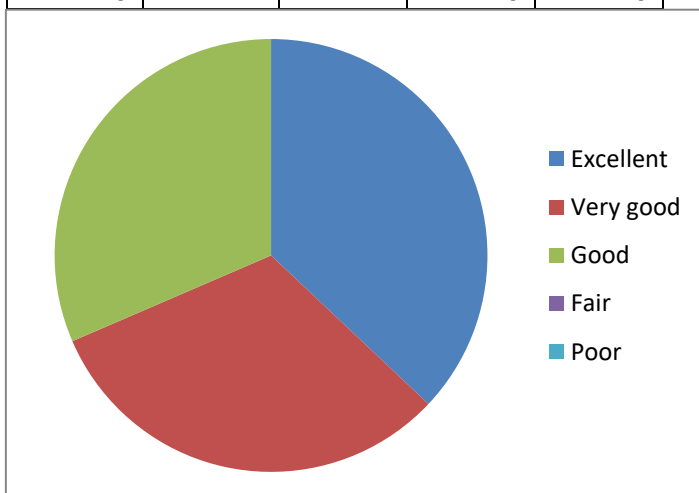
3. Kindly rate the core courses offered to your ward by the department?

Excellent	Very good	Good	Fair	Poor
14	23	17	0	0



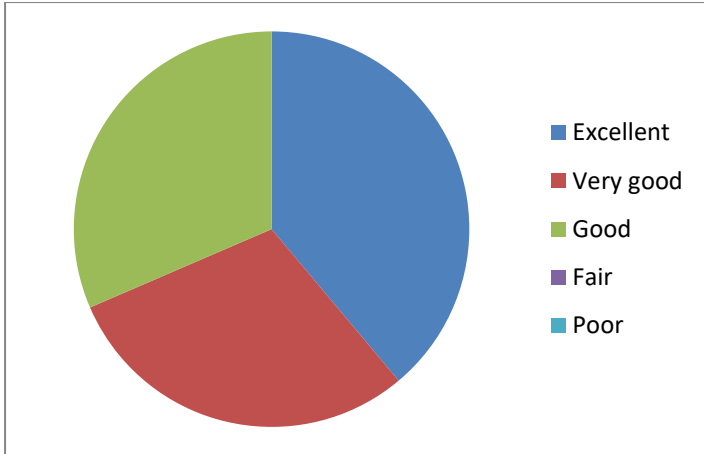
4. Kindly rate the elective courses offered to your ward by the department?

Excellent	Very good	Good	Fair	Poor
20	17	17	0	0



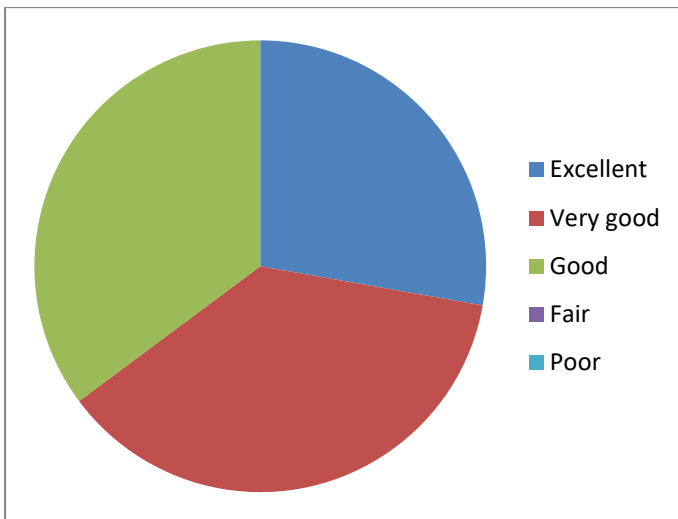
5. Kindly rate the practical courses offered to your ward by the department?

Excellent	Very good	Good	Fair	Poor
21	16	17	0	0



6. Kindly rate the placement training and placements offered to your ward by the department?

Excellent	Very good	Good	Fair	Poor
15	20	19	0	0

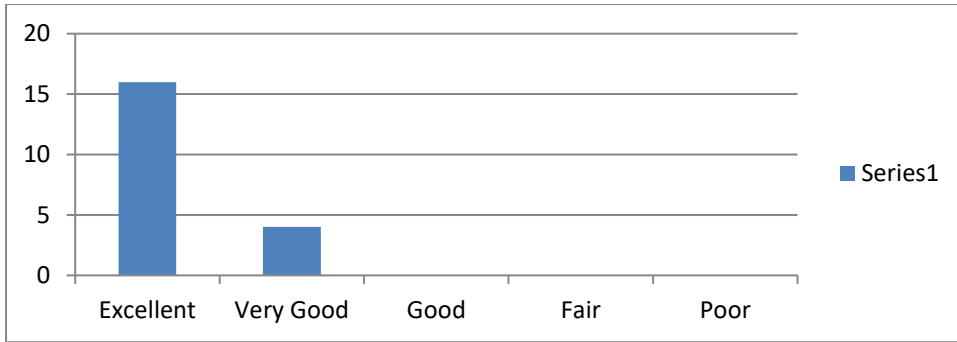


7. Conduction of Program Exit Survey and Alumni Survey

5	4	3	2	1
Excellent	Very Good	Good	Fair	Poor

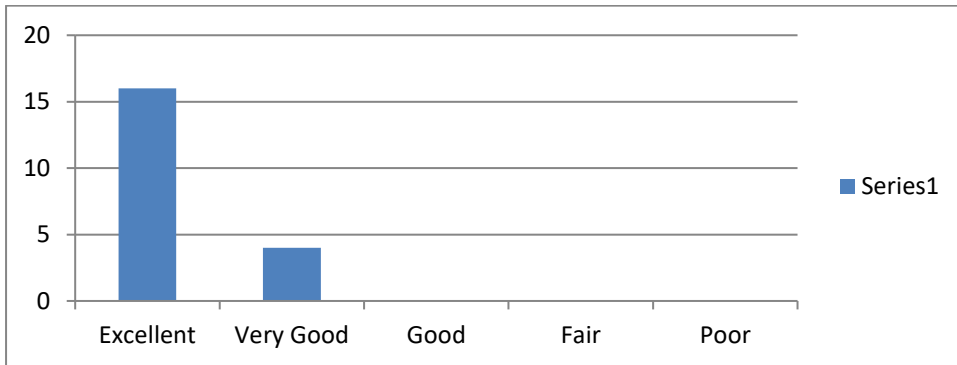
1. Was the syllabus relevant to the program

Excellent	Very Good	Good	Fair	Poor
20	50	10	4	0



2. Was the syllabus updated enough?

Excellent	Very Good	Good	Fair	Poor
15	5	12	5	0



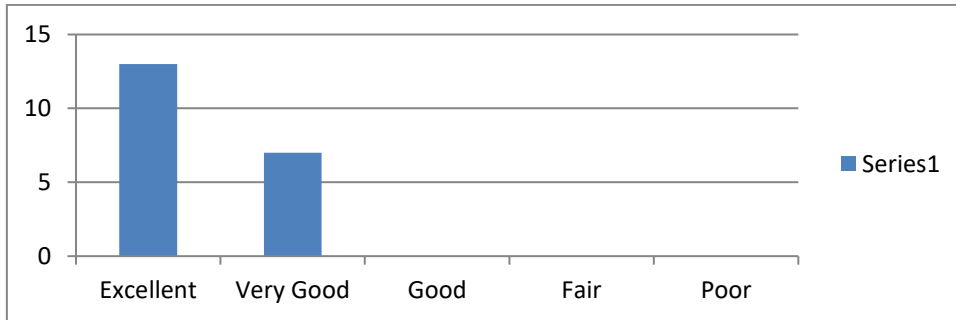
3. Does the syllabus create any interest to pursue post-graduation/research in the particular topic?

Excellent	Very Good	Good	Fair	Poor
20	60	4	0	0



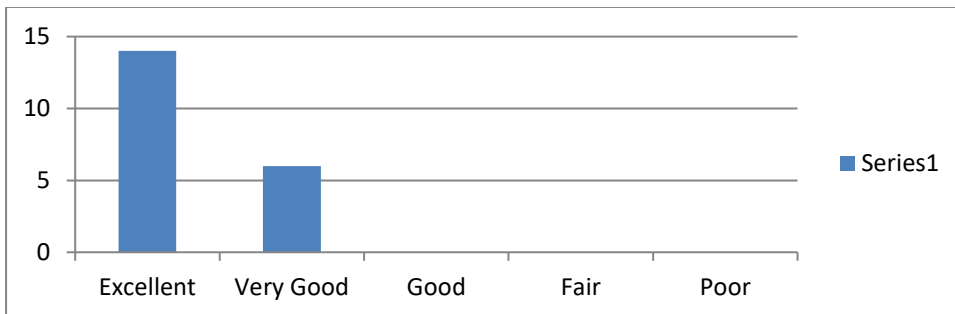
4. How do you rate the electives offered in relation to the Technological advancements, industrial requirements and in relevance to the specialization streams?

Excellent	Very Good	Good	Fair	Poor
25	45	8	6	0



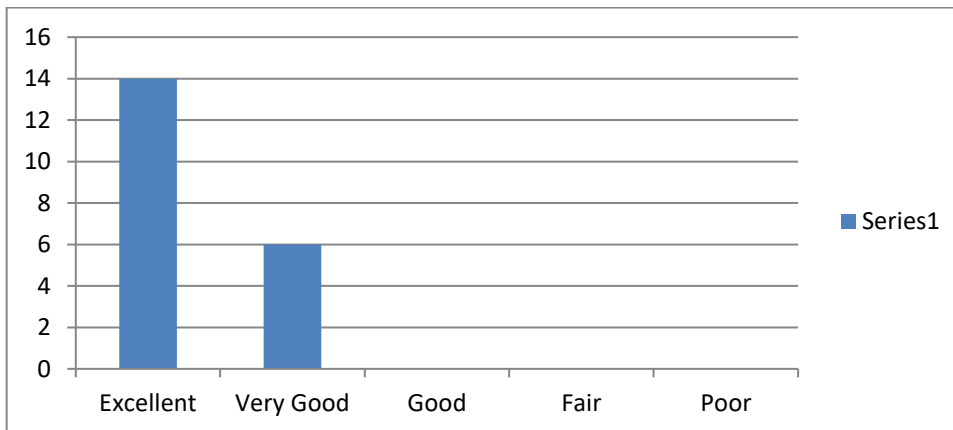
5. Rate the courses helped you in your career in terms of self-learning

Excellent	Very Good	Good	Fair	Poor
30	40	6	8	0



6. How do you rate the courses that you have learned in relation to your current job?

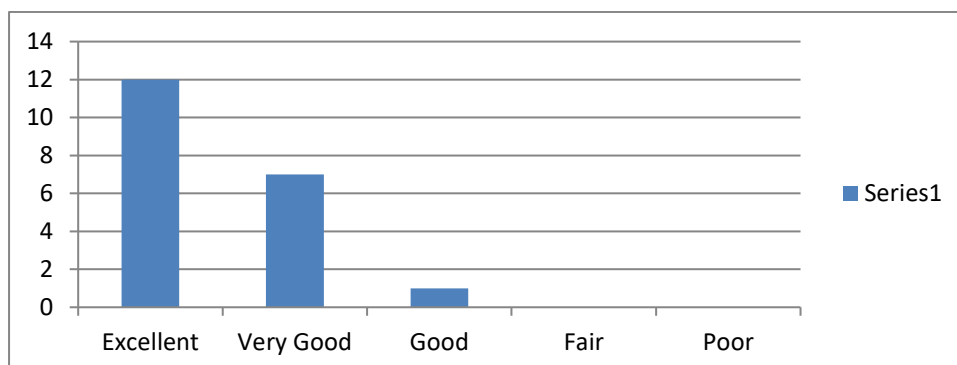
Excellent	Very Good	Good	Fair	Poor
20	60	4	0	0



7. How do you rate the learning experience in terms of their relevance to the real-life

application?

Excellent	Very Good	Good	Fair	Poor
25	50	5	4	0



## 8. Student –centric Activities Report

Department has made provision in structure of all programmes to give students experiential and participative learning experience. Students can join any industry/ advanced laboratory /MNC etc. for internship in 4th semester. Project work, assignment, quiz, presentation etc. are integral part of CIA in all programmes.

Student centric methods adopted by departments to provide Experiential and Participative learning experience:

### Experiential Learning Activities:

1. Presentation of Survey Reports by students
2. Involving students for collecting data etc. for various Government Departments and other organizations (Karnataka State Council of Science and Technology)
3. Industrial Visits to RITTAL India Pvt Ltd, Trinity NDT COCA COLA, UNIBIC, EMMVEE Solar etc

### Participative learning Activities:

1. Conducting Group Discussion & Mock Interviews to Final year students which results in better placements.
2. Asked all the students to present Current Affairs on weekly basis and maintain separate dairy.
3. Working on Department journal and newsletters

### Problem solving Methods

MBA Department provide students tasks that inculcate in them problem solving skills; they receive practical and direct experience of negotiating difficult situations, and are trained as capable, competent and accomplished individuals. Following Problem solving methods are used in student centric activities.

1. Trial and Error methods
2. Breaking large task into small steps
3. Creating short goals to achieve the end

#### Activities

1. Live Internships covers all the leading industries
2. Research Projects
3. Making students responsible for organizing academic and Techno cultural programme (Anadyantha 2018,2019, 2020, and 2021)

### 9. Slow and fast learners-Action Taken Report

S.No	Class	No of Students Identified	Name of Student	Justification	Efforts Taken
1	MBA-I Year	15	PRUTHVI S K	Scored less than 50% in Internal Tests	Remedial Classes Conducted on all the numerical subjects
			PUNITH S		
			RAKESH K M		
			RAVI TEJAS K V		
			RON SAMUEL DASARI		
			SACHIN U DESAI		
			SAI SAMARTH H S		
			SHREE SUDARSHAN P		
			SNEHA SM		
			TEJAS D		
			Y V MONISHA		
			ADARSH V		
			AKSHAYA RAJA N		
			ASMA FAYAZI		
MITHUN H R					
2	MBA-I I Year	12	PARIKSHITH GOWDA H S	Scored less than 50% in Internal Tests	Remedial Classes Conducted on all the numerical subjects
			ABHISHEK M R		
			ABHISHEK SAHUKAR		
			AKHIL M		
			AKSHAY H A		
			AKSHAY KOKITKAR		
			AKSHAY NIPPANI		
			ARPITHA POOVAMMA NM		
			AVIN P R		
			BINDU K O		
			DIVYASHREE R V		
			G GOVARDHAN REDDY		



### Details of Fast Learners: AY 2020-21

S.No	Class	No of Students Identified	Name of Student	Justification	Efforts Taken
1	MBA-I I Year	17	SANDHYA VENKATRAMANA HEGDE	Scored More than 60% in Internal Tests	Conducted additional placement training program, Motivated to take up some certification Courses
			SANTHOSH KUMAR R		
			SANTHOSH N		
			SEEMA P		
			SHILPA S R		
			SHREE LAKSHMI DESHMUKH		
			SHRIKRISHNA H L		
			SHUBHA R		
			SINCHANA B N		
			SUMANTH B S		
			SUNIL MAHABAL NAIK		
			MONISHA D M		
			MONISHA M		
			NAVEEN KUMAR B R		
			NAVIN KUMAR SINGH		
			NAVYA B R		
NIRUP D S					
2	MBA-I Ii Year	15	ACHUT DEVARU HEGDE	Scored More than 60% in Internal Tests	Conducted Workshops, Seminars and Motivated to take up some certification Courses
			AIYAPPA PC		
			AJAY M		
			PAVAN SHETTY		
			SHWETHA SAMUEL		
			ANJALI N HAMPALI		
			ARCHANA PK		
			ASHWINI G		
			DEEPTHI S		
			DEEPTHI S D		
			DEVIKA CHENGAPPA N		
			DIVYASHREE R V		
			G GOVARDHAN REDDY		
			GEETHAPRIYA NR		
JAISHREE K KOKITKAR					