Minutes of Meeting of 19th Academic Council of NMAMIT, Nitte

Held on 28-09-2023 at 2.00 P.M.

through online platform (Google Meet)

Members Present:

1) Dr. Niranjan N. Chiplunkar, Principal and Chairman of A.C.
2) Dr. Dilip Kumar K., Principal, K. S. Institute of Technology, Bengaluru- VTU Nominee
3) Dr. Mattur C. Narasimhan, Professor, Civil Engg Dept. NITK, Surathkal – External Member
4) Mr. Ramachandra Acharya, Chief Technology Officer, Global Delight Technologies, Udupi –– External Member
5) Dr. A. N. Parameswaran   - Director, Industry Institute Interaction
6) Dr. Shrinivasa Rao B. R.   - Vice Principal & Controller of Examination
7) Dr. Srinivas Pai P   - HoD, Mechanical
8) Dr. Ujwal P   - HoD, Biotechnology
9) Dr. Ashwini B   - HoD, ISE
10) Dr. Jyothi Shetty   - HoD, CSE
11) Dr. Suryanarayana K   - HoD, E&E
12) Dr. KV SSSS Sairam   - HoD, E&C
13) Dr. Sharada Udaya Shenoy   - HoD, AI & ML
14) Dr. Uday Kumar Shenoy   - HoD, CCE
15) Dr. Muralidhara   - HoD Robotics & AI
16) Dr. Kumudakshi   - HoD, Mathematics
17) Dr. Vishwanath   - HoD, Humanities
18) Dr. Ranjith A   - Associate Professor, Civil
19) Dr. I. R. Mithanthaya   - Vice Principal & Secretary AC

Member Absent:

1) Dr. B. G. Naresh Kumar, Principal, Maharaja Institute of Technology, Mysore – VTU Nominee
2) Dr. Ashok Kumar, Principal, SDM College, Ujire– VTU Nominee
3) Dr. K. C. Chandrasekaran, Professor, Dept. of CSE, NITK Surathkal – External Member
4) Dr. Arun Kumar Bhat   - HoD, Civil Engg. Dept.

MINUTES:

Dr. I. R. Mithanthaya, Secretary of Academic council heartily welcomed VTU nominee Dr. Dilip Kumar K, Principal, K. S. Institute of Technology, Bengaluru, External members Dr. M. C. Narasimhan, Professor, Dept. of Civil Engineering, NITK Surathkal, Mr. Ramachandra Acharya, Chief Technology Officer, Global Delight Technologies, Udupi, and all the internal members to the 19th Academic Council meeting. He read the agenda points to be discussed in the meeting and he requested Principal Dr. Niranjan N. Chiplunkar for his opening remarks.

Dr. Niranjan N. Chiplunkar, Chairman of A.C. in his opening remarks, said our Institute NMAMIT, Nitte became autonomous under VTU in the year 2007, after that every year we are conducting Academic Council meeting once or twice. In the academic year 2021-22 our Institute become a part of Nitte (Deemed to be University), hence our First- and Second-year students are coming under our own University. This Academic council meeting is basically to get the approval of the scheme and syllabus of the current batch of 3rd & 4th year B.E continuing under VTU. As per the NEP guidelines, we prepared the third-year syllabus (160 credits) and only miner modification are made in Fourth year syllabus (175 credits). Considering National Education Policy, we added some open electives, department electives (industry oriented) and some modifications are made as per the suggestions given by the BoS members of the various departments. He also said we are continuing our effort to offer quality input to our students. He informed members of the AC that V & VII semester classes started a month back and second year classes started bit late due to the lateral entry admission. He also expressed his gratitude to all A.C members for guiding the Institution with their valuable suggestions to improve the teaching learning process.

Vice Principal thanked Principal for his opening remarks.

A.C.19.1: As per agenda, Dr. I. R. Mithanthaya read all the resolutions of previous Academic council meeting held on 17th October 2022. He said, the approved scheme & syllabi of B.E, MCA & M.Tech were followed, the approved open electives were offered in VII & VIII semester (1146 students opted open elective in VII semester and 1142 students have opted in VIII semester). The Institute also successfully conducted Graduation Day and issued the Graduation Certificate for all eligible students of B.E., MCA & M.Tech on 29th September

2022. All suggestions given by the Academic Council members are implemented during academic year 2022-23.

Academic Council members approved the minutes of 18th Academic Council Meeting.

A.C.19.2: **Vice Principal & Dean (Academics) sought approval for the modification made in the scheme and syllabi of III & IV year B.E (under VTU)**

Member Secretary said in the month of June & July all departments have conducted Board of Studies meeting through online mode and suggestions given by BoS external members are incorporated while preparing the syllabus. Each Department HoD's briefed about the changes / modifications made in the syllabus.

1. Dr. Kumudakshi, HoD of Mathematics said, the department is offering 3 open electives in the 7th & 8th semester and during the BoS meeting some minor modifications are made in the open elective subjects.

2. Dr. Vishwanath, HoD of Humanities said, the department has sought approval specifically for two new courses namely **"Social Connect and Responsibility"** and **"Introduction to Yakshagana"**. "Introduction to Yakshagana" is a new open elective course which is offered to the 7th semester students. The syllabus for both the courses was reviewed and the course outcomes were aligned to the Bloom's Taxonomy and also approved by the BoS members. A new Open Elective Course, namely, **"Introduction to Music"** was placed before the BoS, and the Board thoroughly discussed the syllabus and opined that the framework of the course requires certain restructuring to fulfill the tents of a professional undergraduate course. It was suggested that learning appreciation of music and related literature could be included in the syllabus. The Board recommended the syllabus to be reorganized in line with related courses in Music offered by other universities and finally decided to offer this open elective in the next upcoming batch.

With regard to open elective, Vice Principal Said this year a good number of students opted for "Introduction to Yakshagana" and it was going on very well. Dr. Janardhana Nayak, Professor of Chemistry is handling this subject, and it includes both physical activity and theoretical content. Dr. Dilip Kumar appreciated the introduction of this elective which will focus on regional culture and tradition, and it is inline with National Education policy.

3. Dr. Ujwal P, HoD of Biotechnology Engineering said no changes have been made in the 4th year syllabus and only minor modification are done on the 3rd year syllabus as per NEP guidelines (160 credits).

Principal asked for clarification of reframing the syllabus of Research Methodology & IPR subject?

Dr. Srinivas Pai said as per VTU, Research Methodology & IPR (21HU51) is a mandatory Ability Enhancement Course which all engineering disciplines need to teach. At the Institute level, it was decided that the Mechanical Engineering department will prepare the detailed syllabus, course content and question bank. **The finalized syllabus was approved in the BoS meeting.**

4. Dr. Ranjith, Civil Engineering Dept. said no major changes were made in the syllabus of final year batch (175 scheme) and only minor changes made in third year syllabus as per VTU norms.

5. During the discussion on modification in the syllabus of Computer Science & Engineering HoD, Dr. Jyothi Shetty said, to meet the requirement of the Industry this year the department has offered two Industry Elective Courses i.e., **"IoT device Security" & "Embedded Secure Element"** and two value-added Courses i.e., **Programming with C++ and Foundations of Modern Software Systems (which is handling by Mr. Piyush Goel, Former SVP, Capillary Technologies) to V & VI semester students.**

6. Dr. Ashwini B, HoD Information Science & Engg. said, no changes have been made in the final year syllabus and in regard to third year scheme and

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syllabus has been prepared as per National Education Policy 2020. The Dept. is offering Ability Enhancement Courses and Environmental studies which are mandatory subjects to all the departments.

7. Dr. Suryanarayana, HoD of Electrical & Electronics Engineering said that they retained the same syllabus for final year and some minor changes made in third year syllabus. The dept. is teaching **"Python"** as an Ability Enhancement Courses to the V semester students.

   Regarding to the question raised by Principal whether "Python" is a Lab oriented or theoretical, HoD replied it is a lab-oriented course and it will help the students while preparing their projects and also their placements activity. He also said that a good number of feedbacks received from the students about this subject.

8. Dr. KV SSSS Sairam, HoD, Electronics & Communication Engg. said there are no changes are made IV year syllabus and only III year syllabus is reformulated. The course **"Information Theory and Coding"** is renamed as **"Information Theory and Error Control Coding"** and some modification made in the courses **"Microprocessor and Microcontroller"**. Two program elective courses are being offered to the UG students in collaboration with Infineon Tech. India Pvt. Ltd, Bengaluru.

9. Dr. Srinivas Pai, HoD of Mechanical Engineering mentioned that there are no major changes / modifications made III & IV year syllabus. The department is offering 3 Ability Enhancement Courses offered in V semester i.e., **Introduction to AI and ML, CNC Programming and Simulation and Business Analytics with Python-I – Predictive Analytics.**

10. Dr. Sharada Udaya Shenoy, HoD Artificial Intelligence & Machine Learning informed the members that the first batch of AIML is studying in the final year. The syllabus is framed as to suit the requirements of the Industry and current technology trends. The 6th semester subject **"Internet of Things" is updated with additional content of protocol MQTT, Communication Model, COAP, Model Zigbee as suggested by the industrial representative of the BoS.** The 6th semester subject "Artificial Intelligence" is now shifted to 5th semester. The

subject "Software Engineering and Testing" is now offered as a value-added course for the 2021-22 admission batch.

The principal asked about the percentage of AIML specific subjects which are different from the Computer Science & Engineering course. HoD informed that nearly 65% of subjects are related to AIML specialization and many value-added courses are offered to enhance the skill of the students.

Mr. Ramachandra Acharya enquired about the kind of infrastructures added to the Dept. HoD replied that the management has funded to establish high-performance lab with 38 Workstations with T1000 graphics cards. The AI labs with high power computing needs are being arranged in this lab. She also informed that an industrial associated initiatives are already started in cooperation with Intel and Dell on Intel's AI for Youth certification programme. The students participating in this programme will get a certificate from Intel for free of cost.

Principal appreciated suggestions given by Mr. Ramachandra Acharya to improve the teaching learning process in the area of AIML.

11. Dr. Uday Kumar Shenoy, HoD of Computer and Communication Engg. said as similar to AIML, first batch of CCE is studying in the Final year and we drafted 5th & 6th semester syllabus in accordance with new NEP guidelines.

Principal asked about the percentage of CCE subject different from CSE?

HoD said 60% of the syllabus is CCE specialization and 30% of the subjects are related to CSE. Principal suggested put some additional effort to attract IoT related companies for placement. HoD replied that Mr. Bharath G Kumar, Head - placement department is already initiated the process to bring such companies to the campus. Mr. Ramchandra Acharya advised some IOT related companies like Geoinformatics networks, CISCO, Honeywell etc.

Principal informed HoD to be in touch with Prof. Yaji, NMIT Bangalore to upgrade the department.

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Prof. Dilip Kumar appreciated the efforts made by the department to frame the syllabus and he said right now only 2 Colleges from Karnataka have started Computer & Communication Engineering courses.

After a long deliberation, Dr. I. R. Mithanthaya suggested to arrange some workshops for both the faculty members of NMAMIT & KSIT to improve the teaching learning process in the area of Computer & Communication Engineering courses.

12. Dr. Muralidhara, HoD of Robotics & Artificial Intelligence said that the first batch of Robotics students is in the V semester. We revised the syllabus V semester subject "Control Engineering" for proper flow to enhance students understanding. In the subject **"Introduction AI & ML" we added some topics like** Support Vector Machines and Kernel methods in unit 3. In the subject **"Neural Networks and Deep Learning"** LSTM, GRU, RNN has been included because it is important topics in Deep Learning. We offered 'CNC Technologies" as an ability enhancement course in V semester.

Principal informed the A.C members that the HoD & Staff of Robotics & Artificial Intelligence designed a Robotics Lab in a very innovative way. It is well equipped, and it will really beneficial to the students. Mr. Ramachandra Acharya & Dr. Dileep Kumar K expressed their views to visit the Robotics Lab when they are visiting to NMAMIT.

Academic Council members approved these modifications.

A.C.19.3: **Vice Principal sought approval for the open electives offered in VII & VIII semester for the current academic year 2023-24.** He presented the list of open electives Group- I and Group -II and said that this year the Institute was offered 25 open electives in VII semester and 24 open electives in VIII semester. Yoga classes are conducted in the morning session 7.00 am to 8.00 am and Physical Education classes are conducting at 5.30 pm to 6.30 pm. There is a lot of demand from

the students to join these open elective classes and all the classes are going in a very effective way.

Mr. Ramchandra Acharya & Dr. Dilip Kumar highly appreciated the open elective courses offered by the Institute.

Vice Principal said as per national education policy providing such courses like yoga, physical education, Yakshagana, music encourages the students in choosing subjects and making education more effective.

A.C members approved the list of Open Electives.

A.C.19.4: Member Secretary sought approval for the list of students eligible for Graduation Certificates. He said this year totally 1259 students are eligible for the graduation certificate and also, he presented the list of Gold and Silver Medal winners of UG & PG, those who have scored highest CGPA in semester end examination.

Academic council members approved the Academic Calendar, Result, List of eligible students for Graduation Certificate and List of Gold & Silver medal winners.

A.C.19.5: Vice Principal & Dean (Aca.) sought approval for the exam related matters. Dr. Shrinivas Rao B R, Vice Principal & CoE presented the Academic Calendar of V & VII semester of B. E. He also presented the consolidated result analysis of ODD & Even semester of both UG & PG.

Academic council members approved the calendar & result analysis.

Mr. Ramchandra Acharya enquired about types of Internships?

Principal replied that the students should undergo 3 types of Internships in their 4-year studies. Internship – I is 3 weeks of Inter/Intra Institutional Internship (2 credits), Internship – II is 4 weeks of Innovation/Societal/ entrepreneurship-based Internship (3 credits), Internship – III is 24 weeks of Research Internship /Industry Internship (15 credits). All three types of internships are mandatory to all students.

Mr. Ramchandra Acharya said he will be in touch with our Institute regarding providing some kind of Internship through the Industry level in the coming days. Principal greatly appreciated and welcomed his support and help.

A.C.19.6: Dr. Niranjan N Chiplunkar, Principal invited **all external and internal Academic Council members** for the forthcoming Institution's **"Graduation Day" celebration** scheduled on **21st October 2023 (Saturday)** for the award of degree of B.E., M.Tech & MCA programme. He said once all academic related matters are approved in the governing council meeting of the Institute scheduled on 30th September 2023 (Saturday), we will issue certificate in the Graduation Day. He also told that this year we planned to conduct Graduation Day in 2 sessions (morning and afternoon). In the morning session all gold and silver medalists will be honored along with graduation certificate distribution for MCA & PG students. In the afternoon session all undergraduate students will be given degree certificates.

A.C.19.8: Meeting ended with vote of thanks by member secretary.

Dr. I. R. Mithanthaya
Secretary, Academic Council

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