

THE NATIONAL INSTITUTE OF ENGINEERING, MYSORE

Proceedings of 22nd Academic Council Meeting of NIE held on June 30, 2018 (Saturday): 11 am

Members present:

1. Dr. G.Ravi, Principal, NIE, Mysuru, Chairperson
2. Dr. G.S.Suresh, Professor, Dept of Civil Engg, Dean (Academic Affairs)
3. Dr.T.N.Shridhar, Professor, Dept of Mechanical Engg, Controller of Examinations
4. Dr. Suresha B, Professor, Dept of Mechanical Engg., Dean (R & D)
5. Dr. N.V.Raghavendra, Professor, Dept. of Mechanical Engg, Head, IQAC
6. Dr. N.Suresh, Prof. & Head, Dept of Civil Engg.
7. Dr. M.V.Achutha, Prof. & Head, Dept of Mechanical Engg.
8. Dr. N.Kumar, Prof. & Head, Dept of Electrical & Electronics Engg.
9. Dr.Narasimha Kaulgud, Prof. & HoD In-Charge, Dept of Electronics & Communication Engg.
10. Dr. M.S.Shamprasad, Prof. & Head, Dept of Industrial & Production Engg.
11. Dr. H.D.Phanendra, Prof. & Head, Dept of Computer Science Engg
12. Ms.P.Devaki, Asso.Prof. & HoD In-Charge, Dept of Information Science Engg
13. Mr. Girish, Associate Prof. & Head, Dept of Master of Computer Applications
14. Dr. R.Gopalakrishne Urs, Prof.& Head, Dept of Physics
15. Dr. P.M.Ramdas Bhandarkar, Prof & Head., Dept of Chemistry
16. Dr. D.Mamta, Prof.& Head , Dept of Mathematics
17. Dr. M.Mohan Ram, Asso. Professor, Prof. , Dept of IPE
18. Dr. H.Pradeepa, Asst. Professor, Dept of Electrical & Electronics Engg.
19. Dr. C.Vidyaraj, Professor, Dept of Computer Science Engg
20. Smt. S.V.Roopaa, Asso. Professor, Dept. of Mathematics
21. Mr. M.S.Sudarshan, Managing Director, Stedrant Techoclinic Pvt. Ltd., Bengaluru
22. Dr. Panduranga Vittal K., Professor, Dept. of Electrical Engg., NITK, Surathkal
23. Dr. D.Maheshappa, Professor, Dept. of E&C, Acharya Institute of Technology, Bengaluru
24. Dr. S.B.Vanakudre, Principal, SDM College of Engineering, Dharwad
25. Dr. Kuzhalvaimozhi. S, Asso. Professor, Dept of Information Science Engg - Member Secretary

Members on Leave

1. Dr. Sridhar M.A, Professor, Dept. of Physics, University of Mysore, Mysuru
2. Dr. Prasad Krishna, Professor, Dept. of Mechanical Engg., NITK, Surathkal
3. Mr. Satheesha B.N, Vice President and Head, Global Education Centre, Infosys, Mysuru

Agenda No.	Particulars
1	<p>To read and record the meeting notice:</p> <p>Dr.G.Ravi, Principal and Chair Person welcomed the members to the 22nd meeting of Academic Council. The Principal introduced external members and then agenda of the meeting was taken up for discussion</p> <p>Resolution: Meeting notice was read and recorded</p>
2	<p>To read and confirm the proceedings of the 21st Academic Council meeting held on Dec 16, 2017 (Page No 2-6)</p> <p>Dr.G.S.Suresh, Dean(AA) read the proceeding of the 21st Academic council meeting and presented the action taken report on the decisions of the 21st Academic Council meeting.</p> <p>Resolution: The Council members noted and resolved to confirm the action taken on the decisions of the 21st Academic Council. The members appreciated the decisions of the previous meeting of the Academic Council have been adopted.</p>
3	<p>Major Events since June 29,2018 by Principal (Page No 7-9)</p> <p>Principal gave a brief presentation about the history, milestones, various committees, program offered and Accreditation status of NIE. Principal also informed the Council about the important activities- FDP, SDP, Workshops, Seminars. technical talk, symposiums organized by the various departments that took place at NIE after the 21st Academic Council meeting (From December 16.2017 to June 30,2018).</p> <p>Dr.N.V.Raghavendra briefed about the prize won in a national level competition by the Team SAENIEks for design of race ready formula styled car at IIT Ropar. The council members appreciated the activities</p> <p>Resolution: Noted and appreciated.</p>
4	<p>Report on Academic Audit by Head IQAC (Page No 10-17)</p> <p>Dr. N.V.Raghavendra, The Head, IQAC, presented the audit reports of the internal audit, conducted in two phases during 2017-18 and their recommendations. He highlighted the following recommendations by the committee:</p> <ul style="list-style-type: none"> • Programme Level Recommendations • Department Level Recommendations • Institution Level Recommendations • Permitting fast learners for the entry batch 2018 • Introducing Industry specific electives <p>It was informed to the Council that the observations of the audit committee have</p>

	<p>been taken very seriously for the implementation by the departments. The Academic Council noted the same and expressed its satisfaction.</p> <p>Resolution: Read and confirmed.</p>
5	<p>Presentation on Proposed Revision in Curriculum by Dean (AA) Revised Curriculum (Page No 18-29)</p> <p>Dr.G.S.Suresh, Dean (AA) presented details of</p> <ul style="list-style-type: none"> • Model for scheme of teaching and examination of BE from 2018-19 Academic year • Scheme for Curriculum of M.Tech from 2018 -19 Academic year • Scheme for Curriculum of MCA from 2018 -19 Academic year <p>Dr. Suresh also presented the highlights of revised curriculum which includes MOOC Elective/Core, Industry driven elective, Open Electives, Mandatory Internship for one Month during Summer Vacations, Long term Internship to be extended to 8th semester for fast learners, Management & Engineering Economics Courses, Minor Project, Major Project.</p> <p>Discussion and Suggestions:</p> <p>Dr.D.Maheshappa queried about the possibility of getting internship by all the students. Dr.G.Suresh responded and confirmed that the students got the internship in companies for current batch is 100%.</p> <p>Dr. S.B.Vanakudre asked the clarification about the internship given for placed students in their respective companies during 8th semester. Dr.G.Ravi clarified that the 8th semester classes are scheduled only on Saturday and Sundays to accommodate internship for the placed students. Dr.D.Maheshappa informed that VTU system supports break of study to accommodate long term internship, which in turn increases the employability for the students. Dr.Panduranga Vittal K informed that in NITK, minor project is given to the student those who have not got the internship.</p> <p>Mr.M.S.Sudarshan queried about Long term Internship to be extended to 8th semester for fast learners, who are deprived of electives in the 8th semester. Dr.G.S.Suresh responded and explained that fast learners allowed to take up electives in the earlier semesters.</p> <p>Dr.D.Maheshappa suggested for inclusion of more practice components for courses. Dr.G.S.Suresh confirmed that the departments are given flexibility to change the structure to include more practical component Dr.G.Ravi responded and explained about integrated lab component courses introduced in Civil and ECE department.</p> <p>Dr. Panduranga Vittal K queried about the MOOC Course evaluation. He asked about mechanism to resolve the score differences in MOOC certificate and internal evaluation. Dr.G.S.Suresh answered that internal evaluation is mandatory and evaluation by the institute offering MOOC is optional.</p> <p>Dr.D.Maheshappa recommended “Engineering Economics” course syllabi taught by</p>

	<p>their department can be customized for respective branch applications. Dr.G.S.Suresh responded and agreed to use common concise syllabus and respective departments allowed to develop their detailed syllabus in accordance with their needs.</p> <p>Dr. D.Maheshappa suggested that the department take initiative to convey the relevance of open elective offered by department, Principal responded and suggested that flyers can be used to promote knowledge of the open elective offered by various department and their relevance.</p> <p>Dr. D.Maheshappa suggested</p> <ul style="list-style-type: none"> • problem statement from Industry for projects • Mandatory Internship for faculty in industry to improve the point of contact • Inclusion of R&D Experts in advisory board • Courses related to IPR can be given as open elective <p>Resolution: Considered and approved.</p>						
6	<p>To consider and approve the syllabus of</p> <table border="1" data-bbox="231 891 1495 1644"> <tr> <td data-bbox="231 891 304 1189">i</td> <td data-bbox="304 891 1495 1189"> <p>Basic Sciences, UG and PG Programme</p> <p><i>Annexure to Supplement Agenda item as Annexure=i</i></p> <p>Approval was sought by Dr Dr. R.Gopalakrishne Urs, Head, Department of Physics and Chairperson, BoS, Basic Sciences by presenting the scheme of teaching and examination of Basic Sciences (Mathematics, Physics and Chemistry) UG programme and mathematics course for PG programme.</p> </td> </tr> <tr> <td data-bbox="231 1189 304 1435">a</td> <td data-bbox="304 1189 1495 1435"> <p>Scheme of teaching and examination of 1st & 2nd semester B.E. programme (Common to all branches) and 3rd semester Mathematics to be effective from the academic year 2018-19.</p> <p>Resolution: Approved</p> </td> </tr> <tr> <td data-bbox="231 1435 304 1644">b</td> <td data-bbox="304 1435 1495 1644"> <p>Scheme of teaching and examination of Mathematics Course for PG Programme to be effective from the academic year 2018-19.</p> <p>Resolution: Approved</p> </td> </tr> </table> <p>Suggestions:</p> <p>Dr. Panduranga Vittal K., suggested to introduce Electives in Basic Science to help the students get better job opportunity.</p> <p>Dr.D.Maheshappa, insisted that at least two unit of mathematics course taught by the respective branch faculty to enhance the knowledge of application of maths in their respective fields. Dr.D.Mamta responded to support his suggestions, she listed the efforts taken by maths department to improve the application of maths as follows:</p> <ul style="list-style-type: none"> • Development of syllabus for the course Mathematics –III, Mathematics –IV 	i	<p>Basic Sciences, UG and PG Programme</p> <p><i>Annexure to Supplement Agenda item as Annexure=i</i></p> <p>Approval was sought by Dr Dr. R.Gopalakrishne Urs, Head, Department of Physics and Chairperson, BoS, Basic Sciences by presenting the scheme of teaching and examination of Basic Sciences (Mathematics, Physics and Chemistry) UG programme and mathematics course for PG programme.</p>	a	<p>Scheme of teaching and examination of 1st & 2nd semester B.E. programme (Common to all branches) and 3rd semester Mathematics to be effective from the academic year 2018-19.</p> <p>Resolution: Approved</p>	b	<p>Scheme of teaching and examination of Mathematics Course for PG Programme to be effective from the academic year 2018-19.</p> <p>Resolution: Approved</p>
i	<p>Basic Sciences, UG and PG Programme</p> <p><i>Annexure to Supplement Agenda item as Annexure=i</i></p> <p>Approval was sought by Dr Dr. R.Gopalakrishne Urs, Head, Department of Physics and Chairperson, BoS, Basic Sciences by presenting the scheme of teaching and examination of Basic Sciences (Mathematics, Physics and Chemistry) UG programme and mathematics course for PG programme.</p>						
a	<p>Scheme of teaching and examination of 1st & 2nd semester B.E. programme (Common to all branches) and 3rd semester Mathematics to be effective from the academic year 2018-19.</p> <p>Resolution: Approved</p>						
b	<p>Scheme of teaching and examination of Mathematics Course for PG Programme to be effective from the academic year 2018-19.</p> <p>Resolution: Approved</p>						

		<p>and PG in consultation with the respective department experts.</p> <ul style="list-style-type: none"> • Special invited lectures arranged for Application and tool usage
	ii	<p>Civil Engineering: UG and PG programme</p> <p><i>Annexure to Supplement Agenda item as Annexure-ii</i></p> <p>Dr. N,Suresh Head, Department of Civil Engineering briefed about various committee recommendations- DAAB, DIAB and BoS Approval was sought by Dr.N.Suresh for the following:</p>
	a	<p>Scheme and concise syllabus of teaching and examination of 3rd to 8th semester B.E. Civil Engineering programme (for the batch admitted during the academic year 2018-19).</p> <p>Resolution: Approved</p>
	b	<p>Scheme of teaching and examination of M.Tech programme in Hydraulics Engineering and Structural Engineering (to be effective from the academic year 2018-19)</p> <p>Resolution: Approved</p>
		<p>Suggestions:</p> <p>Mr. M.S.Sudarshan given the following suggestions:</p> <ul style="list-style-type: none"> • Industry driven elective for 2 credit may not be sufficient to bridge the gap between institute and industry • Introducing course for Planning and Design of flyovers, Durability test on concrete. • To expose the students to FIDIC training programmes. • Field visit to cement godown/industries • In reference of different courses include National Building Code of India – 2015. • To utilize the services of ASCE Student Mentoring Program <p>Mr.M.S.Sudarshan also suggested that second level firms can be called for improving number of students recruitment. Dr.G.Ravi gave suggestion for improving recruitment by Alumni contact.</p>
	iii	<p>Mechanical Engineering: UG and PG programme</p> <p><i>Annexure to Supplement Agenda item as Annexure-iii</i></p> <p>Dr. M.V.Achutha, Prof. & Head, Dept of Mechanical Engg. briefed about various committee recommendations- DAAB, DIAB and BoS. Approval was sought by Dr.M.V.Achutha for the following:</p>
	a	<p>Scheme and concise syllabus of teaching and examination of 1st to 8th semester B.E. Mechanical Engineering programme (for the batch admitted during the academic year 2018-19)</p> <p>Resolution: Approved</p>

	<p>b</p>	<p>Scheme of teaching and examination of M.Tech programme in Nano Technology, Machine Design and Industrial Automation and Robotics (to be effective from the academic year 2018-19)</p> <p>Resolution: Approved</p>
<p>Suggestion: Mr. M.S.Sudarshan suggested to introduced electives in nano technology open to Civil and ECE.</p>		
	<p>iv</p>	<p>Electrical & Electronics Engineering: UG and PG programme <i>Annexure to Supplement Agenda item as Annexure-iv</i></p> <p>Approval was sought by Dr.N.Kumar, Prof. & Head, Department of Electrical and Electronics Engg. presenting the scheme of teaching and examination of UG and PG programme. He also briefed about implementations of various committee recommendations in the curriculum - Academic Audit BoS.</p> <p>a</p> <p>Scheme and concise syllabus of teaching and examination of 1st to 8th semester B.E. Electrical & Electronics Engineering programme (for the batch admitted during the academic year 2018-19)</p> <p>Resolution: Approved</p> <p>b</p> <p>Scheme of teaching and examination of M.Tech programme in Power Systems and CAID (to be effective from the academic year 2018-19)</p> <p>Resolution: Approved</p> <p>Suggestions: Dr. Panduranga Vittal K suggested to introduce “Big Data Analytics” as elective. and “Python Scripting”. Dean(AA) responded and suggested that “Python Scripting” can be introduced as certification course. Dr. Panduranga Vittal K, recommended for collaborating in conducting Smart Grid Lab experiments. The Council appreciated the help provided.</p>
	<p>v</p>	<p>Electronics & Communication Engineering: UG and PG programme <i>Annexure to Supplement Agenda item as Annexure-v</i></p> <p>Dr.Narasimha Kaulgud highlighted about the various committee recommendations and the implementations.</p> <ul style="list-style-type: none"> • Removal of 8051 and introduce ARM processor for Microprocessor and Microcontroller • Shifted -control system to 4th semester and OS to 5th semester • Introduced Term project for Data Structure using C++ • Intoduced simulation and hardware implementation for Advanced Communication Laboratory. <p>Approval was sought by Dr.Narasimha Kaulgud for the following</p>

	a	<p>Scheme and concise syllabus of teaching and examination of 1st to 8th semester B.E. Electronics & Communication Engineering programme (for the batch admitted during the academic year 2018-19)</p> <p>Resolution: Approved</p>
	b	<p>Scheme and concise syllabus of teaching and examination M.Tech programme in Network and Internet Engineering (for the batch admitted during the academic year 2018-19)</p> <p>Resolution: Approved</p>
	<p>Suggestions:</p> <p>Dr.D.Maheshappa insisted for more courses with practice components. Dr.Narasimha Kaulgud responded and highlighted the courses with integrated lab components.</p> <p>Dr.D.Maheshappa asked for the clarification for the elective courses Internet of Things(EC0311) and Internet of Things and Applications (EC0329) (NOKIA) in the same semester. Dr.Narasimha Kaulgud responded and clarified that the course Internet of Things and Applications (EC0329) offered by NOKIA for selected students. To facilitate other students to opt for IOT course Internet of Things(EC0311) is offered in the same semester. The elective Internet of Things(EC0311) can be shifted to 6th semester in the next batch students.</p>	
	<p>vi Industrial & Production Engineering: UG and PG programme</p> <p><i>Annexure to Supplement Agenda item as Annexure-vi</i></p> <p>Approval was sought by Dr. M.S.Shamprasad, Prof. & Head, Dept of Industrial&ProductionEngg. presenting the scheme of teaching and examination of UG and PG programme. He also briefed about implementations of various committee recommendations.</p>	
	a	<p>Scheme of teaching and concise syllabus of 3rd to 8th semesters of B.E degree course in IPE for the batch admitted during the academic year 2018-22 as per new AICTE/VTU guidelines.</p> <p>Resolution: Approved</p>
	b	<p>Scheme of teaching and syllabus of M.Tech degree course in Production Engineering and Systems Technology for the batch of students admitted during the academic year 2018-20.</p> <p>Resolution: Approved</p>
<p>Suggestions: Practice component to be introduced for the course JIT and Lean Manufacturing</p>		

vii	Computer Science & Engineering: UG and PG programme	
	<i>Annexure to Supplement Agenda item as Annexure-vii</i> Approval was sought by Dr. H.D.Phaneendra, Prof. & Head, Department of Computer Science and Engg. presenting the scheme of teaching and examination of UG and PG programme. He also briefed about implementations various committee recommendations- DAAB, DIAB, Academic Audit and BoS.	
	a	Scheme of teaching and concise syllabus of 3rd to 8th semesters of B.E degree course in CSE for the batch admitted during the academic year 2018-22. Resolution: Approved
	b	Scheme of teaching and syllabus of M.Tech degree course in Information Technology for the batch of students admitted during the academic year 2018-20. Resolution: Approved
Suggestions: Dr. Panduranga Vittal K suggested that inclusion of practice or tutorial component all elective courses		
viii	Information Science & Engineering: UG and PG programme	
	<i>Annexure to Supplement Agenda item as Annexure-viii</i> Approval was sought by Ms.P.Devaki, Asso. Prof., Department of Information Science and Engg. presenting the scheme of teaching and examination of UG and PG programme. She also briefed about implementations various committee recommendations- DAAB, DIAB, Academic Audit and BoS.	
	a	Scheme of teaching and concise syllabus of 3rd to 8th semesters of B.E degree course in ISE for the batch admitted during the academic year 2018-22. Resolution: Approved
	b	Scheme of teaching and syllabus of M.Tech degree course in Computer Network Engineering for the batch of students admitted during the academic year 2018-20. Resolution: Approved
Suggestions: Dr. Panduranga Vittal K suggested to offer Block Chain Technology as elective.		
ix	Department of PG Studies – MCA programme	
	<i>Annexure to Supplement Agenda item as Annexure-ix</i> Approval was sought by Girish, Asso. Prof.& Head, Department of PG Studies presenting the scheme of teaching and examination of MCA programme	
a	Scheme of teaching and syllabus of 2018-19 Admission Batch Resolution: Approved	

7	<p>Provisional list of successful candidates for the conferment of B.E. degree (2014-18: 8th autonomous batch) in the following disciplines: Civil Engineering Mechanical Engineering Electrical & Electronics Engineering Electronics & Communication Engineering Industrial & Production Engineering Computer Science & Engineering Information Science & Engineering</p> <p>Annexure to Supplement Agenda item as Annexure Page No 30</p> <p>Dr.T.N.Shridhar, Controller of Examinations, highlighted the results of all UG programs.</p> <p>Discussion: Dr. D.Maheshappa asked about the higher passing rate in autonomous system in comparison with affiliated college student passing rate. Dr.G.Ravi, Principal explained the reasons by highlighting the quality and end to end course delivery by one instructor.</p> <p>Dr.D.Maheshappa asked about the measures to ensure the quality of system of evaluation of autonomous system in comparison with affiliated system. Dr.G.Ravi, Principal responded, indicating the following procedures:</p> <ul style="list-style-type: none"> • Scrutiny of SEE Question Paper by External BoE Members • Review process of SEE • SEE paper setting by external members • Paper Seeing after the Results • Question Paper Auditing • Questions from all units
8	<p>Conduct of Graduation Ceremony scheduled during second or third week of August , 2018</p> <p>Dr. T N Shridhar briefed about the conduction of Graduation day on 3rd or 4th week August 2018, and invited all the honourable members to participate in the grand ceremony.</p> <p>Resolution: It is resolved to accord permission to hold graduation ceremony.</p>
9	<p>Calendar of academic events of UG for the odd semester of 2018-19 (Page No 31-32)</p> <p>Dr.G.S.Suresh, Dean (AA), highlighted the academic calender of UG for the Academic Year 2018-19.</p> <p>Resolution: The council has approved the academic events for the odd semester of 2018-19</p>

10	<p>Minor modifications / amendments to Academic Regulations(Page No 33-35)</p> <p>Dr.G.S.Suresh, Dean (AA), highlighted the modifications / amendments to Academic Regulations</p> <p>Resolution It is resolved to accept the modifications / amendments to Academic Regulations</p>
11	<p>Recommendations of Malpractice Enquiry Committee (Page No 36)</p> <p>Dr.T.N.Shridhar, Controller of Examinations presented the report of Malpractice Enquiry committee. The CoE highlighted the reduction of number of malpractice cases. The Council appreciated the efforts of Flying Squad Committee headed by Dr.C.Vidyaraj.</p> <p>Resolution: Noted</p>
12	<p>Proceedings of Academic Review Committee(ARC) and Examination Review Committee(ERC) Page No 37-38</p> <p>Dr.G.S.Suresh, Dean (AA), highlighted the new convention for assigning course code from Academic year 2018-19 and the implementation of OBEC Committee recommendations.</p> <p>Resolution: Noted</p>
13	<p>To read and record: Placement statistics of the year 2014-18: 8th Autonomous Batch (Page No 39-45)</p> <p>Principal briefed about the various training programme offered to the students through placement office. He presented the placement statistics. All the members appreciated.</p> <p>Suggestion: Dr. D.Maheshappa suggested to capture details of the off campus placed student and he also given the idea of AMCAT. He highlighted that the major types of companies which consider AMCAT score for direct recruitment.</p> <p>Resolution: Noted</p>
14	<p>To develop regulations for Ph.D and M.Sc (Research)</p> <p>Dr.G.S.Suresh, Dean (AA) asked Council Members permission to discuss the regulations for Ph.D and M.Sc (Research) in the next meeting to be held on Saturday 21st July, 2018.`</p>

The meeting ended at 4:15 PM with a vote of thanks by Dr. T.N.Shridhar, Controller of Examinations.

PRINCIPAL