

THE NATIONAL INSTITUTE OF ENGINEERING, MYSORE

**Proceedings of 20th Academic Council Meeting of NIE held on July 1, 2017
(Saturday): 11 am**

	Particulars	
1	<p>To read and record the meeting notice: Dr. G.S. Suresh, Dean (AA) introduced Dr. G. Ravi, who took charge as principal on June 5, 2017 to the honorable members of Academic council and requested him to initiate the proceedings as Chairperson. Dr. G. Ravi, Principal and Chair person initiated the proceedings by welcoming all the honorable external members and esteemed colleagues. He appreciated the services of Dr. G. L. Shekar in leading the Institute for the last seven years as a principal and thanked him for conducting all previous Academic Council meetings in a unique and meticulous manner. Meeting notice was read and recorded</p>	1
2	<p>To read and confirm the proceedings of the 19th Academic Council meeting held on Jan 28, 2017 Dr. G. Ravi, read the proceeding of the 19th Academic council meeting and apprised the members about the action taken. He also highlighted about the visit of National Board of Accreditation (NBA) team in the month of Feb, 2017. Principal apprised that four undergraduate programmes: Civil, Electronics and Communication, Industrial and Production and Mechanical Engineering were successful in getting accreditation for three years. Principal briefed about the important activities took place at NIE after 19th Academic Council meeting (Jan 29, 2017 – June 30, 2017). Workshops, technical talk, symposiums organized by the various departments. Techno-cultural fest ‘techNIEks-2017’ inaugurated by His Highness Yaduveer Krishnadatta Chamaraja Wadiyar. Release of ‘Compendium of research Publication-2016’, Volume 1 and 2 of TEQIP Newsletter by Mr.G.S.Ramachandra, Hon. Secretary, NIE-MC. Council members appreciated the activities. Read and confirmed.</p>	2

3	To consider and approve:	
	a Basic Sciences, UG and PG Programme	
	(i) Scheme of teaching and examination of 1 st & 2 nd semester B.E. programme (Common to all branches) to be effective from the academic year 2017-18 Approval was sought by Dr. Mamta, Head, Department of mathematics 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 program. Approved	Annexure-1, 1a
	(ii) Syllabus of 1 st & 2 nd semester B.E. programme (Common to all branches) to be effective from the academic year 2017-18 Approved	
	(iii) Syllabus of Engineering Mathematics- III (Branch wise), Engineering Mathematics- IV (Branch wise), Bridge course Mathematics-I, Bridge course Mathematics-II for 3 rd and 4 th Semester of all branches. Approved	
	(iv) Syllabus of Applied Mathematics of 1 st Semester M.Tech. of all streams of Engineering and MCA for the batch admitted during 2017-18 Approved	
	<p>Dr. Mamta highlighted the changes made in mathematics III and IV courses which are in line with the particular branch need and said that PG syllabus for mathematics was also framed based on branch wise requirement. Based on the suggestions given by the HoD of various departments statistical tool were important for PG students so that they can apply that in their respective departments. She also explained that the various departments were involved in formulating the syllabus. Also non-linear programming, probability and number theory are being added based on the suggestions from respective departments.</p> <p>Also Dr. Mamta highlighted that in the Physics one new experiment was added. And in the Chemistry no major changes were incorporated.</p> <p>Mr. Achutha Bachalli gave suggestions to teach Algorithm writing based on mathematics which is very important, call experts from outside mainly alumni who are already experts</p>	

	<p>in these field to give lectures. And finally he added the changes made in the department are in the right direction.</p> <p>Mr Sundaresh highlighted the importance on the topics like data science.</p> <p>Dr. K V A Balaji suggested identifying one expert faculty from department of mathematics so that other department faculty would discuss things with the experts.</p> <p>Considered and Approved</p>	
b	Civil Engineering: UG and PG programme	
I.	<p>Scheme and concise syllabus of teaching and examination of 1st. & 2nd semester, 3rd to 8th semester B.E. programme (for the batch admitted during the academic year 2017-18)</p> <p>Approved</p>	
II.	<p>Modified Syllabus of 5th to 8th semester B.E. programme (for the batch admitted during the academic year 2015-16)</p> <p>Considered and approved</p>	
III.	<p>Scheme of teaching and examination of M.Tech programme in Hydraulics and Structural Engineering (to be effective from the academic year 2017-18)</p> <p>Considered and approved</p>	
IV.	<p>Syllabus of 1st to 4th semesters of M.Tech programme in 1) Hydraulics 2) Structural Engineering (to be effective from the academic year 2017-18)</p> <p>Approved</p> <p>Dr. K C Manjunath highlighted the changes such as introduction of Python programming for structural engineering based on the demand from the students and explained the staked project that students takes up in the third semester which is individual project on buildings by end of the seventh semester the project would be completed and in ever semester students has to show is progress to the concerned guide.</p> <p>And some correction of course outcome is also incorporated based on the suggestion given by NBA.</p> <p>Based on the suggestion given by BoS member's suggestions in the syllabus, some small modification is incorporated, such as SLE component to be moved to core component.</p> <p>In the Environmental Engineering laboratory the course instructor has suggested in incorporating field sampling</p>	Annexure-2

		<p>which has been taken care.</p> <p>Dr. G S Suresh highlighted proposed elective for Python programming, that first three units will be dealt with the Python programming and in the next three units the Python is being applied to the structural programming. The programming is conducted in the laboratory.</p> <p>Dr. K C Manjunath also highlighted there is minor changes in PG syllabus and that there is a subject called analysis and design shells, which is modified into analysis of plates and shells for PG structures.</p> <p>Also in the design of storage structures there is CO change. And in surface water hydrology syllabus is enhanced.</p> <p>Mr Achutha Bachalli asked about any simulation software were being used, for which Dr. G S Suresh said that simulation will be done using Finite Element Method software such as ANSYS.</p> <p>Dr. Ramesh asked what about field experience and Dr. K C Manjunath elaborated the process of carrying about the project. And also he inquired about do you have any PG course in substructure.</p> <p>Approved with suggestions</p>		
	c	Mechanical Engineering : UG and PG programme		
		I.	<p>Scheme and concise syllabus of teaching and examination of 1st, & 2nd semester, 3rd to 8th semester B.E. programme (for the batch admitted during the academic year 2017-18)</p> <p>Approved</p>	Annexure-3
		II.	<p>Modified Syllabus of 5rd to 8th semester B.E. programme (for the batch admitted during the academic year 2015-16)</p> <p>Approved</p>	
		III.	<p>Scheme of teaching and examination M.Tech programme in Industrial Automation & Robotics, Machine Design, Nano Technology (to be effective from the academic year 2017-18)</p> <p>Approved</p>	
		IV.	<p>Syllabus of 1st to 4th semesters M.Tech programme in Industrial Automation & Robotics, Machine Design, Nano Technology (to be effective from the academic year 2017-18)</p> <p>Considered and approved.</p>	

	V.	<p>Dr. M V Achutha highlighted the NBA visit experience said the following changes</p> <p>The word mini project to minor project. Rapid prototyping to additive manufacturing. New course introduced Product Design and Development. Modification of units for German language</p> <p>Major changes in nanotechnology course</p> <p>Automation lab is being introduced for PG Industrial and Automation</p> <p>In PG course Machine Design the following changes are made: Design lab is being introduced. Small changes in Finite element methods course</p> <p>Composite materials changed from 5 to 4 credits and some minor modifications</p> <p>Coordinate Measuring Machines Lab is being introduced by Dr. N V Ragavendra</p> <p>Dr T N Shridhar Highlighted the electronic cooling was introduced in heat and mass transfer subject.</p> <p>Dr. K V A Balaji questioned about why electives have three credits why not four credits. Clear explanation was given by Dr. G Ravi which convinced Dr. K V A Balaji. Also he said the subject engineering management is good but add a small topic in entrepreneurship.</p> <p>Mr Sundaresh Suggested to give some practical exposure in additive manufacturing.</p> <p>Considered and approved.</p>	
	d	Electrical & Electronics Engineering : UG and PG programme	
	i.	<p>Scheme and concise syllabus of teaching and examination of 1st, & 2nd semester, 3rd to 8th semester B.E. programme (for the batch admitted during the academic year 2017-18)</p> <p>Considered and approved</p>	Annexure-4, 4a, 4b
	ii.	<p>Modified Syllabus of 5th to 8th semester B.E. programme (for the batch admitted during the academic year 2015-16)</p> <p>Approved</p>	
	iii.	<p>Scheme of teaching and examination of 1st to 4th semesters of M.Tech programme in 1) Power Systems and 2) Computer Applications to Industrial Drives (to be effective from the academic year 2017-18)</p> <p>Approved</p>	

	iv.	Syllabus of 1 st to 4 th semesters of M.Tech programme in 1) Power Systems and 2) Computer Applications to Industrial Drives (to be effective from the academic year 2017-18) Approved	
	v.	Dr. N. Kumar briefed about the programmes in the department and BoS members. He highlighted that analog electronic circuit in third semester with a small change, and in the fourth semester analog electronic circuits lab with respective changes. In fifth semester industrial control and automation changes made was presented and explained. Small changes made in seventh semester elective reactor core compensation and modifications made in eight semester elective smart grid was explained. Finally the modifications in the PG - power system engineering was presented. There was some small inclusion in research methodology course such as hypothesis testing. Mr Achutha Bachalli questioned why DC machines and transformers are in same course, can it cannot be separately taught, for which Dr. N Kumar convinced with a reason. Also asked whether reactor core compensation is relevant, for which Dr. N Kumar convinced him with explanation. Considered and Approved	
	e Electronics & Communication Engineering: UG programme		
	I. i	Scheme and concise syllabus of teaching and examination of 1 st & 2 nd semester, 3 rd to 8 th semester B.E. programme (for the batch admitted during the academic year 2017-18) Approved	Annexure-5
	II.	Modified Syllabus of 5 th to 8 th semester B.E. programme (for the batch admitted during the academic year 2015-16) Approved	
	III.	Dr. Rohininagapadma , Head, EC department presented the small changes made in Electronic fundamentals based on the suggestions of NBA team and the inputs given by BOS members. Dr. Rohininagapadma , explained about the introduction of Artificial Intelligence was introduced as elective. Mr Achutha Bachalli questioned whether competent faculty are available to teach Artificial Intelligence and in what capacity they can do this job, he also suggested to give	

		<p>students an exposure on robot based Internet of Things (IoT) and also told to identify people from outside to share their experience.</p> <p>Mr Sundaresh gave suggestions to get experts to training on Artificial Intelligence.</p> <p>Dr. Nanjundaswamy asked about stacked project, for which Dr. Rohininagapadma explained that students take up project from third semester itself which involves a group of three students and continue the project up to eight semester ending with good project output.</p> <p>Considered and approved.</p>	
	f	Computer Science & Engineering: UG and PG programme	
	i.	<p>Scheme and concise syllabus of teaching and examination of 1st. & 2nd semester, 3rd to 8th semester B.E. programme (for the batch admitted during the academic year 2017-18)</p> <p>Approved</p>	Annexure-6
	ii.	<p>Modified Syllabus of 5th to 8th semester B.E. programme (for the batch admitted during the academic year 2015-16)</p> <p>Approved</p>	
	iii.	<p>Scheme of teaching and examination of M.Tech programme in Information Technology (to be effective from the academic year 2017-18)</p> <p>Approved</p>	
	iv.	<p>Syllabus of 1st to 4th semesters of M.Tech programme in Information Technology (to be effective from the academic year 2017-18)</p> <p>Approved</p>	
	v.	<p>Dr. Phaneendra highlighted the changes and approval by the BoS members. The major change is the inclusion of Python programming in the course computer concepts and C programming and sought for the approval from AC.</p> <p>Mr Achutha Bachalli asked is there any course on mobility and application aspects. Dr Phaneendra clarified.</p>	

	g Information Science & Engineering : UG and PG programme		Annexure-7, 7a, 7b, 7c, 7d, 7e
	(i)	Scheme and concise syllabus of teaching and examination of 1 st . & 2 nd semester, 3 rd to 8 th semester B.E. programme (for the batch admitted during the academic year 2017-18) Approved	
	(ii)	Modified Syllabus of 5 th to 8 th semester B.E. programme (for the batch admitted during the academic year 2015-16) Approved	
	(iii)	Scheme of teaching and examination of M.Tech programme in Computer Network Engineering (to be effective from the academic year 2017-18) Approved	
	(iv)	Syllabus of 1 st to 4 th semesters of M.Tech programme in Computer Network Engineering (to be effective from the academic year 2017-18) Approved	
	(v)	Dr. Raghuveer highlighted the concise syllabus and structure. The major change is in the UNIX system programming and sought for approval. Mr Achutha Bachalli asked is there any course in software testing. Mr Sundaresh asked any software defined network and about syntax programming. Dr. Raghuveer clarified the points. Approved	
	h Industrial & Production Engineering : UG and PG programme		Annexure-8
	(i)	Scheme and concise syllabus of teaching and examination of 1 st . & 2 nd semester, 3 rd to 8 th semester B.E. programme (for the batch admitted during the academic year 2017-18) Approved	
	(ii)	Modified Syllabus of 5 th to 8 th semester B.E. programme (for the batch admitted during the academic year 2015-16) Approved	

	(iii)	Scheme of teaching and examination of M.Tech programme Production Engineering & Systems Technology (to be effective from the academic year 2017-18) Approved	
	(iv)	Syllabus of 1 st to 4 th semesters of M.Tech programme in Production Engineering & System Technology (to be effective from the academic year 2017-18)	
	(v)	Dr. M S Sham Prasad highlighted the changes in the syllabus in both UG and PG. The major changes are Introduction of programming on Mechatronics Introduction of small topic on Mechanical Vibration in Dynamics of Machinery. Rearranged the topics in Work Study and Ergonomics Rearranged the topic in Computer Integrated Manufacturing Introduction of elective Digital Manufacturing Open elective for Supply Chain & Logistics Management Seminar on research methodology. Rearranging of electives is carried out for both UG and PG Introduction of small topic on Artificial Intelligence in the PG course Automated Manufacturing Systems Small changes in the subject in Advanced Material Removal Processes. Major changes in Advanced Materials and Processing. Mr Hebbal highlighted work station design and asked clarification in the CNC lab and the relevant theory. Mr Sundaresh with respect to costing do you have related course and asked whether you have any tooling related to Digital Manufacturing. Dr. Shamprasad explained and justified the queries.	
i	Department of PG Studies – CEA : MCA programme		
	(i)	Scheme of teaching and examination of 1 to 6 th semesters MCA programme (to be effective from the academic year 2017-18) Approved	Annexure-9, 9a

	(ii)	Syllabus of 1 to 6 th semesters MCA programme (to be effective from the academic year 2017-18) Approved	
	(iii)	Mr. Girish said major changes in the Introduction of new elective UNIX system programming. And small modification was highlighted. Dr. K V A Balaji suggested to make concise syllabus of all departments in one book and call it as course booklet.	
	j	Provisional list of successful candidates for the conferment of B.E. degree (2013-17: 7th autonomous batch) in the following disciplines: Dr. T N Shridhar Highlighted the results of all UG programs.	Considered and approved
	(i)	Civil Engineering	
	(ii)	Mechanical Engineering	
	(iii)	Electrical & Electronics Engineering	
	(iv)	Electronics & Communication Engineering	
	(v)	Industrial & Production Engineering	
	(vi)	Computer Science & Engineering	
	(vii)	Information Science & Engineering Mr Sundaresh asked about the details of the NFTC (Not Fit For Technical Course). Dr. G. Ravi explained the procedure.	
	k	List of students permitted to write MUTE with 'I' grade CoE explained that, I grade is awarded to those students who could not take up the SEE for genuine reasons and clear the exam in MUTE.	
l	Conduction of Graduation Ceremony scheduled on August 19, 2017 Principal briefed about the conduction of graduation day on August 19, 2017 and invited all the honorable members to participate in the grand ceremony.	Considered	

	m	<p>Calendar of academic events for the odd semester of 2017-18</p> <p>Dr. G.S. Suresh, Dean(AA) presented the format of academic calendar.</p> <p>Dr. Balaji and Dr. Nanjunda swamy appreciated, Dean for the innovative design.</p> <p>Dr.Nanjunda Swamy opined that calendar should available to all faculty and students and also in web.</p>	Accepted
	n	<p>Minor modifications / amendments to Academic Regulations</p> <p>Dr. G S Suresh highlighted the small changes in Academic calendar, academic regulations, the summer term courses, some clarifications in the W grade.</p> <p>He also highlighted the training to be given for placement from the lower semester itself and sought for approval.</p>	Accepted
	o	<p>Recommendations of Malpractice Enquiry Committee</p> <p>Dr.T.N.Sridhar, CoE presented the report of Malpractice cases.</p> <p>Dr K V A Balaji said to constitute the Academic subcommittee, suggested summer term to be given to theory as well as practical, clarified for the extension of the project work and cautioned not to overrule the malpractice case.</p>	Considered And Accepted
4	To read and record:		
	a	<p>Placement statistics of the year 2013-1: 7th autonomous batch</p> <p>Maj. T R Prakash Training and Placement officer, presented the placement statistics, highlighted the companies visited.</p> <p>He also briefed about the various training programme offered to the students through placement office like conducting aptitude test, mock test, group discussion, soft skill development programme etc.,</p> <p>All the members appreciated.</p>	
	b	<p>Academic accomplishments</p> <p>Principal mentioned that all the departments are performing fairly well. Principal congratulated all the HoD's for their efforts and motivating the faculty.</p> <p>Considered</p>	
5	Dr. T. N. Sridhar proposed vote of thanks.		


Principal