



THE NATIONAL INSTITUTE OF ENGINEERING

IQAC Meeting Minutes

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Date: April 06,2021

Time: 4 pm.

Mode of meeting: Blended Mode (offline + Online -google meet)

Agenda:

- Reconstitution of IQAC
- Academic Reforms
- Examination Reforms
- Research Activities
- Preparation & Submission of the NIRF 2021
- Initiatives and Action taken/plan

Members Present

1. Dr. N.V. Raghavendra, Principal
2. Dr. K. Pushpalatha , Dean(R&D)
3. Dr. C. Vidyaraj, Professor CSE
4. Dr. Roopa K, Associate Professor, ECE
5. Dr. Likith Kumar M V, Associate Professor, EEE
6. Mr. Sunil S R Gaekwad, Assistant Professor, Mech
7. Mr. M.V. Rajendra, Registrar, NIE
8. Mr. Veeresh.C.Y, 4th Sem M.Tech.(Structural Engg)
9. Dr. S.Kuzhalvaimozhi, Professor ISE

Special Invitees

1. Dr. S Parameshwara Associate Professor, ECE, Deputy CoE
2. Dr. Shankar Nalinakshan, Assistant Professor, EEE, Deputy Dean(AA)

Members on Leave

1. Mr. Uday Shankar Byrappa, Hon. Secretary, NIE MC
2. Dr. M.S. Ganesh Prasad, Dean(AA)
3. Dr. Shabana Sultana, Controller of Examination
4. Dr. Prashant Vishwanath, Professor, JSS Academy of Higher Education & Research
5. Mrs. Prajna Jayasimha, Senior Program Manager, Mobile Networks, NOKIA
6. Miss Anagha Ravishankar 8th Sem B.E(CSE)

The Principal Dr. N.V.Raghavendra, chaired the meeting, which was attended by the chairmen and members of IQAC. IQAC Coordinator welcomed and briefed the committee members about the agenda. The Chairman IQAC, briefed about the importance IQAC, its formation and its objectives. He also explained how IQAC has been consistently and actively involved in quality sustenance and quality enhancement activities. The chairman further briefed that the institution provides Quality Education through Curriculum Development, Faculty Development, Update of Facilities and Continual Improvement. IQAC Coordinator introduced new members of IQAC.

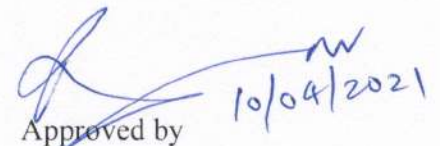
Next the following agenda items were taken up for discussions

Item	Agenda Item	Issues / Highlights of Discussion / action and decision	Action plan (what, who, when to do)
1	Academic Reforms	<p>Dr. Shankar Nalinakshan, Deputy Dean(AA) briefed on curriculum reforms and initiation.</p> <p>Principal suggested starting new electives in Basic Science programmes. The members suggested for increasing number of electives, flexible choice of electives.</p> <p>Details regarding academic reforms initiation and action taken for the Academic year 20-21 are given in Appendix A.</p>	<p>After deliberations, it is suggested that the revision of syllabus with these suggestions can be placed in the respective board of studies for the Academic year 21-22.</p>

2	Examination Reforms	Dr. S Parameshwara, Deputy CoE briefed on examination reforms and action taken. Details regarding academic reforms initiation and action taken for the Academic year 20-21 are given in Appendix B.	Noted
3	Research Activities	Dr. K. Pushpalatha , Dean(R&D) explained incentive schemes for the faculty and students to carry out research work and also briefed about Research internship offered for the M.Tech and MCA students. Details regarding R&D initiation and action taken for the Academic year 20-21 are given in Appendix C.	Noted
4	Preparation & Submission of the NIRF 2021	Dr. Likith Kumar M V briefed all members about Preparation & Submission of the NIRF 2021.	Noted
5	Initiatives and Action taken/plan	Dr.S.Kuzhalvaimozhi briefly explained the IQAC Initiatives Action Taken and Action Plan, Department wise mentor system enforced in Contineo, details on Laboratory Safety Workshop and the inclusion of Value Added Courses. Details regarding initiation and action taken for the Academic year 20-21 are given in Appendix D.	<ul style="list-style-type: none"> • Noted. • Action Plan <ul style="list-style-type: none"> ○ AQAR 20-21 Task Group ○ Academic Audit ○ OBE&IPR Workshop ○ Accreditation of eligible programme



Prepared by
Dr.S.Kuzhalvaimozhi
IQAC-coordinator, NIE



Approved by
Dr.N.V.Raghavendra
IQAC-Chairman
Principal, NIE

Appendix A

Details regarding Academic / Examination reforms initiation and action taken for the Academic year 20-21.

The National Institute of Engineering, Mysuru has adopted advanced teaching and learning methods for offline, online and blended mode. We follow the Outcome Based Education.

The total Credits for the UG Programmes is 175 and for PG Programme 88 is & MCA is 100 (2020-2021 onwards). Industry Driven Electives and Industry assisted laboratory courses are offered for U.G. & P.G. programmes. Partial Delivery of courses by Industry personnel, Collaborative Learning to inculcate participative learning in students and motivating them towards better understanding of concepts through discussions in working groups is also practised.

1. Continuous Internal Evaluation (CIE) component/pattern is revised for the batch 2020-2021, new evaluation pattern is 20-20-10 where all components are compulsory. Depending upon the course, flexibility is given for the course instructor in the case of 10-mark component, it can be Tests, assignments, quizzes, tutorials, etc.
2. In academic calendar the last date to add / drop course is made within two weeks of the start of course before it was after the Test -2 component.
3. Credit Framework formulated for Online learning courses/MOOC Courses SWAYAM /NPTEL.

MOOC Course duration & Credit details (U.G. & P.G. programmes):

MOOC Course Duration	Credits Assigned
4 Weeks	1 Credit
8 Weeks	2 Credit
12 Weeks	3 Credit

Equivalent Grading for MOOC Courses-

For U.G. Programmes:

Equivalent Grading							
Level	Out Standing	Excellent	Very Good	Good	Above Average	Poor	Fail
Score / Marks in MOOC Course	(90-100)	(80-89)	(70-79)	(60-69)	(50-59)	(40-49)	(0-39)
Grade points	10	09	08	07	06	04	00
Grade	S	A	B	C	D	E	F

For P.G. Programmes:

Equivalent Grading							
Level	Out Standing	Excellent	Very Good	Good	Above Average	Poor	Fail
Score / Marks in MOOC Course	(90-100)	(80-89)	(70-79)	(60-69)	(55-59)	(50-54)	(0-49)
Grade points	10	09	08	07	06	04	00
Grade	S	A	B	C	D	E	F

4. Change of absolute grading system for U.G. (B.E) / P.G. Courses (M.Tech. / M.C.A.) w.e.f the academic year 2020-21 as per the VTU regulations.
5. Minor revisions in U.G. & P.G. curriculum, where courses of current trends are added as electives.
6. Classes and Examinations were conducted in blended mode due to the pandemic situation. The blended mode of teaching is done by using the facilities like smart classrooms, video lectures, simulation exercises which provides better understanding of the concepts to the students.

Appendix B.

Examination Initiatives and Action plan\Action Taken

(a) Examination initiation and Action plan for the Academic year 2020-21 AND previous years

➤ **Initiation**

1. Save paper, avoid question paper typing by staff
2. Grade cards redesigned with extra information
3. Centralized facility to enter marks after valuation
4. seating arrangements for SEE to be available on website for each day of exams
5. Answer scripts to be coded before Valuation

➤ **Action taken**

1. Question paper module in contineo portal and started implementing from 2020-21 Batch
2. More information on credits Earned, Total and balance. Month and year of passing for each course is mentioned.
3. Facility made available in GJB Complex
4. Displaying seating arrangements for SEE in website –done from the previous SEE
5. Implemented from 2019-20 batch and onwards

(b) Initiation and Action plan for the Academic year 2021-22:

➤ **Initiation**

1. Individual student results to be made available

APPENDIX C
Centre for Research & Development (NIE- CRD) Action Plan

Objectives of Research at The National Institute of Engineering, Mysuru

Research at NIE aims at addressing some of the most daunting scientific and technological challenges of social, industrial, and national relevance. It also aims to foster the academy-industry interactions, spawn innovative and critical thinking, facilitate value addition for faculty and student fraternity of NIE and most importantly, improve the research perception of the institute, as a whole.

Action Plan – Research & Development

1. Post Graduate Research Internship Programme

Research internship offers both academic and career development opportunities by facilitating practical exposure in emerging fields aided with the cutting-edge technologies for the M.Tech. /M.C.A students. Incentives and Research Internship completion certificate are provided for the research intern after successful completion of the said RI programme.

2. Research Promotion Scheme – The National Institute of Engineering IE Centre for Research & Development (NIE - CRD)

Incentives are provided for U.G. /P.G./Ph.D./Faculty Members to carry out high end research work under the NIE CRD Scheme. The fund is being allocated every year based on the proposal received for the students and faculty members to encourage the research work and enhance the quality of publications.

3. Teaching Assistantship (TAS) for full time Ph.D. Students

NIE has initiated an impactful activity at the Ph.D. level. Going forward, we believe that teaching assistantship programme would enable a holistic value addition to academic delivery. Stipend is provided for the full time Ph.D. scholars every month to encourage the scholars and to attract more students to the path of research.

The overall aim of the Centre for Research & Development at NIE is to showcase quality and productive research work in the coming years and to improve the number of indexed publications thereby increasing the overall ranking of the institution.

APPENDIX D

Events, publications and fellowship details

For the duration 01/09/2020 to 15/03/2021	Civil	Mech	EEE	ECE	IP	CSE	ISE	MCA	PHY	CHE	MATHS	Total
Number of FDP Conducted	2	1	0	1	1	2	2	1	1	1	2	14
Number of Webinar Conducted for Faculty	0	-	1	1	1	1	2	0	2	1	1	10
Number of SDP/ Training Conducted	1	1	0	1	2	3	2	1	NIL	NIL	1	12
Number of Webinar Conducted for Students	0	1	7	4	1	1	NIL	2	2	NIL	2	20
Number of research papers in Journals notified on UGC website	7	2	0	NIL	3	3	2	0	NIL		NIL	17
Publications in Scopus/ Web of Science/PubMed	7	12	6	15	7	3	0	0	5	4	7	66
Number of teachers who were awarded national / international fellowship(s) for advanced studies	NIL	NIL	NIL	2*	NIL	1	NIL	NIL	NIL	NIL	NIL	3

*1. Dr.Shashidhara H R, Associate Professor, ECE Dept, received International Researcher Award organised by I2OR .

2. Dr.Ramavath Prasad Naik, Assistant Professor, ECE Department, received a post doctoral fellowship at Pukyong National University, Busan, South Korea.

Initiatives	ActionTaken/ActionPlan
Dept: Mechanical Engineering	
Programme: UG Mechanical Engineering	
Hands on Training on Ansys-CFD Software/MATLAB/Workbench/Hyperworks	Planned in April and May 2021 Action
Technical Competition /Project Exhibition (Roborikishi, Fun with Fluids and Final Year Project Exhibition)	Planned in June 2021
One day National Level Paper Presentation Competition (CogNIEScience)	Planned in September 2021
Technical Talks/Expert Lecture	Planned between Aug to November 2021
Industrial Visit for final year/pre-final year students	Planned in October 2021
Programme: M. Tech in Machine Design	
Industry Visit for M.Tech. 1st Sem students	Planned in April 2021
One Day Workshop/Seminar for students	Planned in August 2021
Programme: M. Tech in IAR	
Industry Visit for M.Tech. 1st Sem students	Planned in April 2021
Two Day Workshop for students	Planned in April 2021
Programme: M.Tech in Nanotechnology	
One career oriented webinar for M.Tech. Students.	Already organized on 9th march 2021
One Nanotechnology related webinar for M.Tech. Nanotechnology students	Planned in April 2021
Industry Visit for M.Tech. Nano students	Planned in April 2021
Training programme for M.Tech. Nano students	Planned in September 2021
Dept: Civil	
Programme: Civil Engineering	
5 Days FDP	5 days FDP on "Research Opportunity in Civil Engineering" from 9th to 13th September 2020
Orientation Programme	Orientation programme on 30 days Value added internship programme on 1st March 2021

Student Development Program	Student Development Program on "career opportunity and guidance" from July 13th 2020 to July 15th 2020
Field visit	Field visit to Tamarind groove residential building on March 12th 2021
Field visit	Field visit to Tamarind Groove Commercial building on March 23rd 2021
Field visit	Field visit to Sunpure apartment in Vijay Nagar 4th stage on March 24th 2021
Field visit	Field visit to Marshy land in a RJ Foundation layout near Varna lake on 25th March 2021
Programme: Mtech in Structural Engineering	
Orientation programme for first year students on first week of march	Orientation programme for first year students on 18th March 2021
Programme: Mtech in Hydraulics Engineering	
Orientation Programme or first year students on first week of march	Orientation programme for first year students on 18th March 2021
5 days FDP	5 days FDP on "The joy, Opportunities and Challenges in Field Hydrological Research" from 2nd November 2020 to 6th November 2020
Dept:EEE	
Programme: UG EEE	
Industry Driven Elective	A Course on Machine Learning is offered to 8 semester students in association with M/s Philips Innovation Centre, Bangalore
MoUs with Industries	MoU with M/s Philips Innovation Centre, Bangalore is initiated
Value Added Course	A Course on Digital Signal Processing and Its Application in Real Time is initiated to offer in the even semester of 20-21
SDP/Training	Will be conducted in even semester of 2020-21
Programme: PG Power Systems	
Value Added Course	A Course on Digital Signal Processing and Its Application in Real Time is initiated to offer in the even semester of 2020-21
SDP/Training	Will be conducted in even semester of 2020-21
Programme: Computer Application in Industrial Drives	

Value Added Course	A Course on Digital Signal Processing and Its Application in Real Time is initiated to offer in the even semester of 20-21
SDP/Training	Will be conducted in even semester of 2020-21
Dept : IP	
Faculty Development Programme on 'Woman Entrepreneur in Manufacturing and service sectors' Faculty: Latha B M, Asst. Professor, Dept. of I&P Engg. NIE, Mysuru-08 Nandini T S , Asst. Professor, Dept. of I&P Engg. NIE, Mysuru-08	25/05/2021 to 29/05/2021
Workshop on Advanced Composite Materials and its applications Faculty: Santosh Kumar , Asst. Professor, Dept. of I&P Engg. NIE, Mysuru-08 Deepak D Adiga , Asst. Professor, Dept. of I&P Engg. NIE, Mysuru-08	07/06/2021 to 11/06/2021
Dept : ECE	
5 Days FDP on Hands -on approach for the design and implementation of Lab-on Bread Board	To execute a plan to conduct 5 days FDP on Hands - on approach for the design and implementation of Lab-on Bread Board a proposal is submitted to AICTE training & Learning (ATAL) Academy. The objective of the programme/ activity is to set up all basic circuits in a single breadboard that results in reduced cost, and better portability.
FDP on Faculty Development Programme for Engineering College (FDP-Engineering) on Interdisciplinary Design Thinking	To conduct a FDP for engineering college on interdisciplinary design thinking, proposal is submitted to Vision Group on Science and Technology department of information technology, biotechnology & science and technology (VGST). The objective of the programme/ activity is to 1. To expose the faculty/ researchers with state-of-the-art perspectives, ideas, concepts, and solutions related to the design and execution of innovation driven projects using design thinking 2. To prepare the mind set and discipline of systemic inspiration driven by an educated curiosity aimed find new sources of ideas, new connections and new models specially outside their regular operating atmosphere that enhance societal development.

Field Visit to All India Radio, Mysore	One day Studio visit/ field visit is planned to be conducted for VII Sem students to All India Radio, Mysore to get an experience on the practical application of the subjects taught in class which shall facilitate the professional career
SDP for IV th Semester students is arranged to bridge the gap theoretical and practical application of electronic fundamentals	3 day sessions are arranged for IV sem students during the first week of April 2021 to bridge the gap the theoretical and practical application of electronic fundamentals so that the students can gain a strong base on the core subjects taught.
Dept : CSE	
Programme: BE(CSE)	
No. of new core courses / electives introduced	Introduction to machine Learning is introduced for Vth Sem students
Percentage of modification of syllabus compared to previous year	Due to pandemic, we have to retained the same syllabus with minor modification resulting to 7%.
Faculty using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources, MOODLES etc.	Moodle already in use
Organization of Guest Lectures, Industrial Visits, Workshops, etc.,	<ol style="list-style-type: none"> 1. Ethical Hacking (22.12.2020 to 24.12.2020) 2. Careers After Graduation (03.10.2020) 3. Building Web Apps using Firebase (25.09.2020 & 26.09.2020)
Quality of Student's Project	"The magnifier " was awarded as the best project
Action Plan	
<ol style="list-style-type: none"> 1. R Programming 2. AI 3. Cyber Security 4. Block Chain will be added to the AY 2021-22 syllabus 	
<ol style="list-style-type: none"> i. Moodle will be made mandatory ii. All faculty will be train on Iscribe, Wacom and Smart board 	
<ol style="list-style-type: none"> i. FDP for all faculty in the department on Cyber Security and Block Chain will be conducted before BoS. ii. FDP on AI, ML, DL will be conducted before BoS. 	

Programme: M.Tech(IT)	
No. of new core courses / electives introduced	i. Open Elective MOOC (2 credits). ii. Engineering management (3 Credit). iii. Internship (5 credit).
Percentage of modification of syllabus compared to previous year	35% of the syllabus changed
Faculty using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources, MOODLES etc.	Moodle already in use
Organization of Guest Lectures, Industrial Visits, Workshops, etc.,	Introduction to linear algebra Joy of computing (4/3/2021)
Quality of Student's Project	1. Lavanya S (4NI19SIT09) Integration of inductive sensor and development of mobile applications 2. Bhavya G(4NI19SIT06) Integration of magazine unit and handling unit with IOT data logger and development of android based mobile application 3. Anusha M (4NI19SIT03) Integration of All types of Photoelectric Sensors with IOT data logger and Development of Android based Applications 4. Aektha Nanda (4NI19SIT01) Integration of pinning unit and portal unit with IOT data logger and development of android based mobile application 5. Bhavani R (4NI19SIT05) Integration of pressing unit and rotating unit with IOT data logger and development of android based mobile application 6. Amrutha V K (4NI19SIT02) Development of android based application for a IOT based kuka robotic cell
Programme: M.Tech IT	Block chain will be added for the AY 2021-22
Dept: ISE	
Programme: BE(ISE)	
Project exhibition	Planned for second week of May 2021
Awareness on cyber security (for non-teaching staff)	Planned for April 6th and 7th 2021

Alumni meet (both UG and PG)	Planned for second week of April 2021
Orientation Program for 4th Semester students	First week of April 2021
Programme: M.Tech (CNE)	
Faculty development Programme	Planned for third week May 2021
Webinars	Last week of April 2021
parents meet	Fourth week of May 2021
Programme: UG and PG	
AWS academy training program (Centre of excellence)	Started from 15th march 2021
Hackathon	Planned for May 2021
Dept: MCA	
To conduct SDP on Deep Learning and its Tools	Probable date of conduction in the month of May
To conduct SDP on Introduction to Cyber Security	Probable date of conduction in the month of June
Dept : PHY	
3 DAY FDP	In the month of Aug,2021
STP	June/July 2021
One day webinar	Sep-21
Dept : CHE	
Planned to offer electives on waste management	Draft syllabus has been prepared.
Planned to improve the research metrics, that covers: 1. improving the number and metrics of publications; 2. Fetching research grants from various funding agencies.	1. Every faculty is publishing one SCI-indexed paper; 2. Grants approved from BIRAC/CSB.

Dept : MATHS

Enrol at least two students to Ph.D. program through the department research centre.	Have identified 3 research scholars. They have cleared their entrance exam. Waiting for Pre Ph.D Viva after which we can go for formal registration.
Three faculty to register for guide ship under VTU.	Three faculty members have applied for Guide ship under VTU.
Apply for 3 Research grants under various schemes.	Applied for 2 grants and will apply for one more by 25-3-2021.
Organize at least 4 Workshops and 2 FDP's for faculty and students.	Have organized 4 webinars and 2 FDPs.
To publish at least 6 research papers in indexed journals.	7 papers published