



# NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE

(AUTONOMOUS INSTITUTION)

PAMPADY, THIRUVILWAMALA, THRISSUR DT., KERALA - 680588

NBA ACCREDITED PROGRAMMES - B.TECH CSE, B.TECH MTR | NAAC RE-ACCREDITED WITH 'A' GRADE

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## MINUTES OF THE INTERNAL QUALITY ASSURANCE CELL 38<sup>th</sup> IQAC MEETING AC.YR.2023-24

### Agenda-

1. Discussion on action points arising out of the previous meeting
2. Scheme for UG,PG programs autonomous college -NCERC
3. Syllabus fine tuning progress
4. Internal Audit and External Audit
5. Any other matter with the permission of the chair.

Online Mode

Date:26<sup>th</sup> April 2024

Time - 11:00 AM

### IQAC Members

- |  |  |
|--|--|
| 1. Prof. (Dr.) Karibasappa Kwadiki,-Chairperson IQAC | 11. Ms.Malavika S Madhavan -Member Student |
| 2. Dr.Sobha Manakkal-Director IQAC                   | 12. Dr.Deepa A-Member Internal             |
| 3. Mr. Vysak Valsan -Cordinator IQAC                 | 13. Ms.Silja Varghese - Member Internal    |
| 4. Mr.M.Srinivas-Management Representative           | 14. Mr. Alex K - Member Internal           |
| 5. Mr.R.Ambikadas-Senior Administrative Officer      | 15. Mr.Rakesh K -Member Internal           |
| 6. Ms.ViniUnnikrishnan-Local Society Representative  | 16. Mr.Rakesh P R -Member Internal         |
| 7. Ms.Dincy George -Alumni Representative            | 17. Ms.Neethu M--Member Internal           |



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**26.04.2024**





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8. Dr.RahulSateesh -Professional Body Representative	18.Mr.Maheswaran K-Member Internal
9. Mr.Nandakumar R -Industry Representative	19.Ms.Anooja B -Member Internal
10.Mr.Santhosh K-Parent Representative	20.Ms. Anitha P -Member Internal
<b>Special invitees</b>	
1. Dr.Radhakrishnan-Advisor -NGIK	6. Dr Krishna Kumar T PProf. & HOD, Dept. of MBA
2. Dr. Mredhula L ,Prof & HOD, Dept. of ECE	7. Dr. Sudheer S Marar Prof. & HOD, Dept. of MCA
3. Dr.D. Vijayakumar, Prof. & HOD, Dept. of Mechatronics	8. Ms. .Silja Varghese,HoD in charge – Dept. of CSE
4. Dr. Appadurai M,Asso. Prof. & HOD(i/c), Dept. of ME	9. Prof Sajitha,HoD in charge – Dept. of CSE (AI & ML)
5. Dr Jalaja K, Prof. & HOD Department of Applied Science	10.Mr. Gopinathan C Placement Officer
<b>The meeting began at 11:00 AM Principal welcomed all the members of IQAC He directed Dr.SobhaManakkal, Director IQAC to go ahead with the proceedings</b>	
<p>Director IQAC started the presentation by listing the action taken report (ATR) of previous meeting. The minutes and ATR of previous meeting was passed. The main agenda for the meeting was to discuss the progress on fine tuning of curricula and syllabi for autonomous college as per the suggestions given by the subject experts in the previous meeting.</p>	



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The following are the major discussion outcome reported by departments.

Sl.no	Item	Action by	Target date
1.	Changes done by Dept. of CSE	<p>CSE department</p> <ol style="list-style-type: none"><li>Standard programming guide lines included in the syllabus</li><li>Included one practical session for software project development</li><li>Included 8051 microcontroller</li><li>Included deep learning subjects</li></ol>	As needed- Implementation shall be subject to approval from BoS
2.	Changes done by Dept. of EEE	<ol style="list-style-type: none"><li>Emphasis given to basics of Electrical Engineering</li><li>Simulation exercises / realization of micro projects for core engineering subjects implemented to enable them to have hand-on experience</li><li>Kits replaced with convention breadboard and connecting wires to have a better understanding of circuit design and debugging.</li><li>Special Electrical Machines including robotics, drone autonomous vehicle included in the syllabus</li></ol>	As needed-



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Creating the Citizens

		<ul style="list-style-type: none"><li>v. Electrical Measurements included as a core subject as it is a basic essential in Industry</li><li>vi. Concept of Bring Your Device (BYD) ,where each student having his own kit of breadboard, arduino boards, lab components introduced which will help them to realize their circuit ideas even beyond class hours.</li></ul>	Implementation shall be subject to approval from BoS
3.	Changes done by Dept. of ECE	<ul style="list-style-type: none"><li>i. Implementation of Circuit Simulation, utilizing Physical Hardware within Electronics Circuits and Network Theory tutorials</li><li>ii. In Signals and Systems and Digital Signal Processing, assignments, integration of simulation exercises utilizing Python and MATLAB, alongside the incorporation of TMS hardware kits within DSP studies</li><li>iii. Integration of FPGA programming into the Digital System Design lab, emphasizing familiarity with industry-standard concepts such as TTL, fan-in, and fan-out</li><li>iv. In the Linear Integrated Circuits Lab, provision of opportunities for each student to interface with op-amp circuits using a single power supply, while</li></ul>	As needed- Implementation shall be subject to approval from BoS



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		<p>also gaining proficiency in current driver circuits, mirror circuits, etc</p> <p>v. Expansion of Microcontroller studies to encompass modern controllers within the syllabus, with a particular emphasis on peripherals and interrupts.</p> <p>vi. Introduction of Python-based simulations in Principles of Communication coursework.</p> <p>vii. In Control Systems, inclusion of activities involving the construction and implementation of PID controllers.</p> <p>viii. Combined Electromagnetic Field Theory and Antenna theory as a single course</p>	
4.	Changes done by Dept.of ME/MTR	<p>i. Specialized subjects like industry management , Quality concepts and Operation research can be included in the syllabus</p> <p>ii. Mechatronics engineering can be included with sensors and pneumatic concepts.</p> <p>iii. For Mechanical engineering instrumentation concepts can be included</p>	As needed- Implementation shall be subject to approval from BoS



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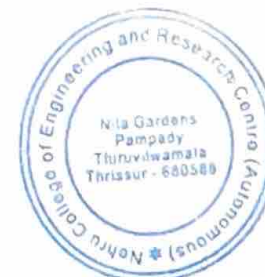
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5.	Changes done by Dept. of MCA	<ul style="list-style-type: none"><li>i. Domain Expertise Workshop shall include Aptitude Test Questions &amp; HR Round Mock-ups -Industry can help the department to develop modules in Aptitude/HR sessions</li><li>ii. Linked In profiles shall be initiated for ALL students which needs to be updated by the projects/activities during the MCA program Industry can aid to provide samples and also evaluate the Professional Profile of the students</li><li>iii. Add-on Training of 20-30hr duration shall be offered during Sem4 beginning, organized combine by Industry and Institute Industry shall train the Faculty to lead basic sessions through Train-the-Trainer programs and directly lead the core-sessions to student groups</li><li>iv. The MCA with SPECIALISATION is definitely a novel concept, and should choose the courses and content accordingly Industry can contribute towards the intellect structure and applications of the course contents</li></ul>	As needed-Implementation shall be subject to approval from BoS
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6.	Changes done by Dept. of MBA	<ol style="list-style-type: none"><li>Ethics concepts need to included in Business Environment paper not in Business Communication as 3 Modules with Business Environment and 2 Modules with Ethics.</li><li>Application aspects needs to be concentrated more as practical component and to be implemented.</li><li>In Finance Papers especially Financial Engineering electives, it was suggested to add/update new concepts</li><li>adapt the reality aspects of management through industry exposure.</li><li>Inclusion of Recruitment and selection, retention, deferred payment, stock options, and retention bonus as compensation connected with IT Industry for Organizational Behavior Paper.</li><li>Few modules in Human Resource Planning and Training and Development needs to interchanged</li><li>concentrate on recent trends and few statutory compliance such as PF Act, Bonus and Gratuity.</li><li>Include some more disruptions in Industry 4.0 paper.</li></ol>	As needed- Implementation shall be subject to approval from BoS
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7.	BoS Meeting	Principal as per the approval from University	May 2024 (exact date pending)
8.	Internal and External Audit	As per academic calendar	Internal audit to complete by 5 <sup>th</sup> July 2024
Principal verified the syllabus and given suggestion for final submission in the BoS meeting to be scheduled in the Month of May 2024.			
<b>MEETING CONCLUDED WITH THE THANKS GIVING FROM IQAC COORDINATOR</b>			

**DIRECTOR IQAC, NCERC**



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**PRINCIPAL**  
Nehru College of Engineering and  
Research Centre (Autonomous)  
Nila Gardens, Pampady  
Thiruvilwamala, Thiruvilwamala - 680588

