



6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

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NCERC/IQAC/2023

Date: 08.08.2023

NOTIFICATION

Constitution of Internal Quality Assurance Cell (IQAC) for the Academic Year 2023-24

Sl. No.	Name & Designation	Role in IQAC
1.	Dr. Karibasappa Kwadikki Principal, NCERC	Chairman
2.	Dr. Sobha Manakkal Prof. & Head, Dept. of EEE NCERC	Director
3	Mr.M.Srinivas Principal Coordinator – Statutory Works, Nehru Group of Institutions	Management Representative
4	Mr. Vysak Valsan Asst. Prof., Dept. of ECE, NCERC	IQAC- Coordinator
5	Ms. Rajeenamol P T Asst. Prof., Dept. of EEE, NCERC	NAAC Coordinator
6	Ms. Silja Varghese Asst. Prof., Dept. of CSE, NCERC	NBA Coordinator
7	Dr. Deepa A Asst. Prof., Dept. of MCA, NCERC	Faculty Representative & IQAC Dept. Coordinator
8	Ms. Sajitha A S Asst. Prof., Dept. of ECE, NCERC	Faculty Representative & IQAC Dept. Coordinator
9	Ms. Neethu M Asst. Prof., Dept. of MTR, NCERC	Faculty Representative & IQAC Dept. Coordinator
10	Ms. Sruthy M R Asst. Prof., Dept. of CSE, NCERC	Faculty Representative & IQAC Dept. Coordinator
11	Ms. Roshini A R Asst. Prof., Dept. of MBA, NCERC	Faculty Representative & IQAC Dept. Coordinator
12	Mr. Rakesh K Asst. Prof., Dept. of CSE, NCERC	Faculty Representative & IQAC Dept. Coordinator


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Sl. No.	Name & Designation	Role in IQAC
13	Mr. Rakesh P R Asst. Prof., Dept. of ME, NCERC	Faculty Representative & IQAC Dept. Coordinator
14	Mr. Maheshwaran K Asst. Prof., Dept. of EEE, NCERC	Faculty Representative & IQAC Dept. Coordinator
15	Dr. Praveen H Asst. Prof., Dept. of Applied Science, NCERC	Faculty Representative & IQAC Dept. Coordinator
16	Ms. Dincy George Sr. Consultant in Quality Engineering Deloitte India Pvt Ltd.	Alumni Representative
17	Dr. Rahul Satheesh Assistant Professor, School of Artificial Intelligence, Center for Computational Engineering and Networking (CEN), Amrita Vishwa Vidyapeetham, Coimbatore / Treasurer &YPAC IEEE PES Kerala Chapter	Professional Body Representative
18	Shri. Nandakumar R Scientist D & Team Lead (VLSI Design Group), NIELIT Calicut	Industry Representative
19	Mr. R. Ambikadas Senior Administrative Officer Academic Office, NCERC	Member from Academic Office
20	Mr. Santhosh K F/O Mr. Alok C Unni S5 EEE (2021-25 Batch)	Parent Representative
21	Ms. Malavika S Madhavan S5 ECE (2021-25 Batch)	Student Member
22	Ms. Vini Unnikrishnan Ward Member – Pampady Thiruvilwamala Grama Panchayath	Local society Representative



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INTERNAL QUALITY ASSURANCE CELL –NCERC



MINUTES OF THE INTERNAL QUALITY ASSURANCE CELL 36th (IQAC) MEETING AC.YR 2023-24

Agenda–

1. Discussion on action points arising out of the previous meeting
2. Placement- status 2023 pass out batch
3. Application for Academic Autonomy -status
4. Application for Research Centre -status
5. Action Plan 2023-24-proposed –Discussion
6. Suggestions from members
7. Any other matter with the permission of the chair.

Board Room, Aryabhata

Date:21st September -2023

Time – 10.30 AM

IQAC Members

- | | |
|---|--|
| 1. Prof. (Dr.) Karibasappa Kwadiki,-Chairperson IQAC | 12. Ms. Silja Vargheese – Coordinator, NBA |
| 2. Dr.Sobha Manakkal-Director IQAC | 13. Ms.Deepa A-Member Internal |
| 3. Mr. Vysak Valsan -Cordinator IQAC | 14. Ms.Sruthy M R- Member Internal |
| 4. Mr.M.Srinivas-Management Representative | 15. Ms.Roshini A R - Member Internal |
| 5. Mr.R.Ambikadas-Senior Administrative Officer | 16. Mr.Rakesh K -Member Internal |
| 6. Ms.Vini Unnikrishnan-Local society Representative | 17. Mr.Rakesh P R -Member Internal |
| 7. Ms.Dincy George -Alumni Representative | 18. Ms.Neethu--Member Internal |
| 8. Dr.Rahul Sateesh -Professional Body Representative | 19. Mr.Maheswaran K-Member Internal |
| 9. Mr.Nandakumar R -Industry Representative | 20. Ms.Sajitha A S-Member Internal |
| 10. Mr.Santhosh K-Parent Representative | 21. Dr.Praveen H -Member Internal |
| 11. Ms Rajeenamol PT– Coordinator, NAAC | 22. Ms.Malavika S Madhavan -Member student |

The meeting began at 10.30 AM. Principal welcomed all the members of IQAC He directed Dr.Sobha Manakkal, Director IQAC to go ahead with the proceedings

Director IQAC started the presentation by listing the action taken report (ATR) of previous meeting. The minutes and ATR of previous meeting was passed. New members were introduced. IQAC action plan for this academic year was presented and discussion was done on the proposed action plan.

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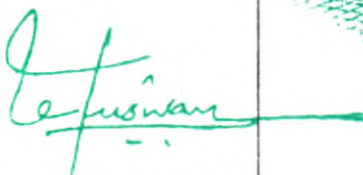
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Sl.no	Item	Action by	Target date
1.	Principal (Chairperson IQAC) suggested identifying alumni from all departments and including them as members of IQAC for the current academic year. Also suggested to have NAAC and NBA coordinators as special invitees in further meetings	IQAC	Next IQAC meeting
2.	Principal informed that the Institution is waiting for the approval of applications submitted for academic autonomy to UGC and formation of KTU research Centre. He also conversed that the Institution is looking forward to acquire the ' Distinct University ' status. This will enable the curriculum to be re- designed such that added focus can be given to practical sessions, encourage open ended experiments and offer micro projects for each core subject which can be further developed as a research work.	Institution	As needed
3.	An elaborate discussion on strengthening the research culture in campus was done and the following suggestions were evolved Principal suggested the following <ul style="list-style-type: none">Joint publications by students and faculty based on student projectsJoint publications by faculty of various colleges under NGIExtending fiscal support for good undergraduate /postgraduate student projects through SEED money from Management Mr.Nandakumar R (Industry representative) <ul style="list-style-type: none">Opened discussion about POs, PSO and PEOs and need for strengthening the alumni interactions to ensure improved attainment of POs, PSO and PEOs	Professors and faculty  PRINCIPAL Nehru College of Engineering and Research Centre (Autonomous) Nila Gardens, Pampady Thiruvilwamala, Thrissur - 680588	As needed



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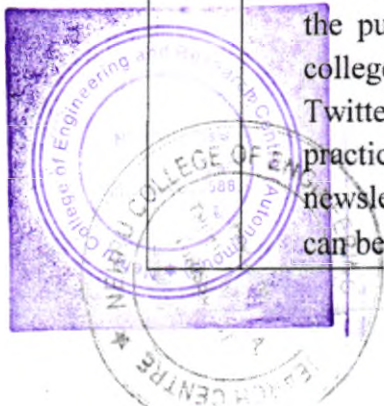


- Emphasized on need for faculty to be aware of various academic tools including Reference Management Software, GitHub to teach the present generation students
- Ensured all support to link with NIELIT to provide one week Boot Camp on Drone Technology' with no charges for three batches in parallel with 30 students in each batch.
- Briefed on 'Chip to Start' certification programme by MeitY which can be utilized by students as well as faculty
- Explained on Digital Workforce Management System (K-DISC & Kerala Knowledge Economy Mission (KKEM)) which can be can be utilized for Placement (NCERC Enrolled)
- Suggested to have Project based learning implemented – Capstone Project
- Opined that all students must be encouraged to undergo internship with AICTE/K-DISC / KKEM
- Suggested college to utilize Remote Lab facility by NIELIT for securing access to online journals

Dr.RahulSateesh(Professional Body representative) proposed the following

- Meaning full Internship- utilizing Karyashala – DST initiative Government Industries and Research Institutions can be identified
- Social Assistive Technology Development Sector another area which can be focused which will help the community and enhance the image of the Institution
- Create a webmaster role in campus for reaching the public and needed society for publicity of college events and news using LinkedIn and Twitter social medial handles can be made practice rather than using conventional styles of newsletters, website etc. Better and easier reach can be ensured using these techniques


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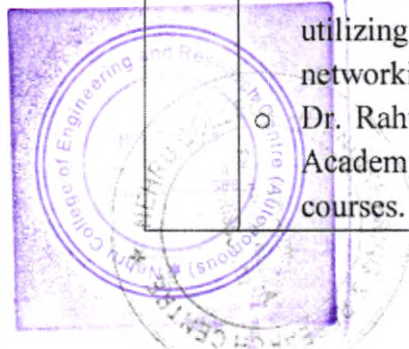
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	<ul style="list-style-type: none">Interdisciplinary research can be promoted with faculty team comprising various departments and also joint efforts of faculty from various colleges including Medical, paramedical etc can be promoted. Typical example was stated as field of Bioinformatics <p>Mr.Srinivas M (Management representative) suggested for</p> <ul style="list-style-type: none">Better utilization of seed fundsOverall development of faculty fraternity to promote growth of institution <p>Dr. Sudheer Marar (HOD/MBA)</p> <ul style="list-style-type: none">He pointed out that the MCA PG projects are done through internships from reputed firms.He also explained the activities of IIC <p>Dr. Mredhula L (HOD ECE & HOD i/c CSE)</p> <ul style="list-style-type: none">She said that the Dept. of ECE has a committee which identified the Thrust Areas and ensured that she will extend the same at Institution level		
4.	<p>Members offered the following suggestions for the placement activities</p> <ul style="list-style-type: none">Principal suggested for more illustrative data on placement statistics requiring presenting the placement data indicating the number of students placed in each company even if numbers are small.Dr.Rahul Sateesh opined that the department placement coordinator shall be a dynamic and self-motivated person with good network. He also insisted on core area placement improvement, utilizing professional bodies for the better networking and improving interdisciplinary skillsDr. Rahul Satheesh also informed about the ICT Academy -IIT Roorke offering good certification courses. He also suggested Placement Officer to	<p>Professors, faculty and placement cell</p> <p><i>[Signature]</i></p> <p>PRINCIPAL Nehru College of Engineering and Research Centre (Autonomous) Nila Gardens, Pampady Thiruvilwamala, Thrissur - 680586</p>	<p>As needed</p>





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	<p>get connect with firms at Coimbatore for an Industry – Institute collaboration. He stated the example of Lakshmi Mills</p> <ul style="list-style-type: none">Mr. Gopinathan, placement officer briefed on the various training programs arranged by the college. He also stated that placement cell is under NCPIR with main office at Coimbatore campus. More opportunities are produced using this collaboration.		
5.	<p>Mr. Santhosh (Parent Representative) gave the following general remarks</p> <ul style="list-style-type: none">Definition for Quality in education to be more precise and made clear to staff and studentsStudents lack in self-confidence – need to be improvedPractical knowledge in the subject is more important than theory lectures – more laboratory hours to be providedLeadership quality and decision making ability among students to be improved through workshops and active interaction with faculty membersAll departments must work in a collaborative way <p>Principal informed that a Counselor will be joining the campus for motivating students and improving their self confidence</p>	Institution	As needed
6.	<p>The following concluding remarks were made by the Principal</p> <ul style="list-style-type: none">Explained the significance of experiential learning and also conversed that the practice of laboratory presentation has been introduced for all classes after conducting the experiment.He shared his experience he had while interacting with current first year students when he extended guidance to set their vision and mission.He briefed on the preparations made by	<p>For information</p> <p><i>[Signature]</i></p> <p>PRINCIPAL Nehru College of Engineering and Research Centre (Autonomous) Nila Gardens, Pambady Thiruvilwamala, Thrissur - 680588</p>	



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	Institution in view of the possible academic autonomy including curriculum development with the help of department heads for the various programs in which added weightage has been given to practical classes. He remarked it as an Academic Evolution.		
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MEETING CONCLUDED WITH THE THANKS GIVING FROM IQAC
COORDINATOR

IQAC DIRECTOR



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ACTION TAKEN REPORT OF THE IQAC MEETING NO 36 HELD ON 21st SEPTEMBER, 2023 (APPROVED IN THE MEETING HELD ON 26th MARCH 2024)

Sl. No	Item	Action by	Action taken	Remarks
1.	Including alumni from all departments	IQAC	Special invitees as subject experts	Completed
2.	Academic autonomy and formation of research Centre of the campus,	Management/Principal	Institution has been granted autonomy for ten years as per clause 7.5 of the UGC (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023.	Completed
3.	Curriculum to be re- designed -added focus to practical sessions, encourage open ended experiments and offer micro projects for each core subject.	Principal/HoDs/DAC/ Alumni/IQAC/BoS	Curriculum re-design in progress	In Process
4.	Joint publications by students and faculty based on student projects .Joint publications by	Departments	Research conclave being organized with all NGI colleges, SEED money – included in budget of	Continuing



INTERNAL QUALITY ASSURANCE CELL – NCERC
36th Meeting (21.06-9.2023) Action Taken Report
Approved on 26.03.2024

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	faculty of various colleges under NGI,SEED money from Management		this next financial yr.	
5.	Improved attainment of POs, PSO and PEOs,faculty to be aware of various academic tools including Reference Management Software, GitHub to teach the present generation students through internships from reputed firms.	Institution	Possibilities being explored	Procuring suitable Software in consideration
6.	link with NIELIT to provide one week Boot Camp on Drone Technology' . 'Chip to Start' certification programme by MeitY	Institution	Pending – due to extensive programs in campus	To be considered in the next academic year
7.	Digital Workforce Management System (K-DISC & Kerala Knowledge Economy Mission (KKEM)) which can be can be utilized for Placement	Placement cell	Enrolled	Completed
8.	More illustrative data on placement statistics requiring presenting the placement data indicating the number of students placed in each company even if numbers are small.	Placement cell	Placement data prepared accordingly	Complied with



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9.	Preparation of OBE manual and training of faculty on CO & PSO attainment computation target fixation and identification of curricular gaps	IQAC	Draft copy prepared	New manual for Tier 1 institutions to be prepared
PREPARED BY DIRECTOR IQAC NCERC				
APPROVED BY PRINCIPAL NCERC				


IQAC DIRECTOR


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36th Meeting (21.06-9.2023) Action Taken Report
Approved on 26.03.2024





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MINUTES OF THE INTERNAL QUALITY ASSURANCE CELL 37th IQAC MEETING AC.YR. 2023-24

Agenda-

1. Discussion on action points arising out of the previous meeting
2. Granting of Academic Autonomy, NCERC - prospective plan
3. Scheme for UG, PG programs autonomous college -NCERC
4. Team syllabus discussion with subject experts
5. Concluding remarks
6. Any other matter with the permission of the chair.

Seminar Hall , Aryabhata

Date:26th March 2024

Time - 10.00 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 |



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37th Meeting Minutes
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7. Ms. Dincy George -Alumni Representative	17. Ms. Neethu M--Member Internal
8. Dr.Rahul Sateesh -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
Special invitees	
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
Subject Experts	
Name and designation	Domain of expertise



INTERNAL QUALITY ASSURANCE CELL – NCERC
37th Meeting Minutes
26.03.2024

Principal

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2. Dr Anand R , Assistant Professor,ECE,Amrita School of Engineering, Coimbatore	Electronics & Communication
3. Mr. Vishnukumar V Chief Officer, Embedded Systems & IoT,V-Guard Industries Ltd., Cochin	Computer Science & Artificial Intelligence
4. Mr. Sreejith K R&D Engineer-Luminar Technolab, Cochin	Computer Application
5. Mr.Jimmy J Nalappat ,Retd.AGM, HR & Vigilance, ITI Ltd, Palakkad	Business Applications
6. Mr. Karthikeyan Thiyagarajan ,Deputy Manager Quality,Orbinox India Pvt. Ltd.,Coimbatore, Tamil Nadu.	Mechanical Engineering
The meeting began at 10.30 a.m... Principal welcomed all the members of IQAC He directed Dr. Sobha Manakkal, Director IQAC to go ahead with the proceedings	
Director IQAC started the presentation by listing the action taken report (ATR) of previous meeting. The minutes and ATR of previous meeting was passed. New members and special invitees were introduced. The main agenda for the meeting was 'Fine tuning of curricula and syllabi for autonomous college, NCERC	



INTERNAL QUALITY ASSURANCE CELL - NCERC
37th Meeting Minutes
26.03.2024

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Principal NCERC announced that the Institution has been granted autonomy for ten years as per clause 7.5 of the UGC (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023. He briefed on the prospective plan of the Institution to implement a learning curriculum most suitable for Industry with support from experts from Industry and in compliance with NEP 2020. The meeting was announced to be dispersed for the morning session for each department to have separate detailed discussion on syllabus with subject experts from Industry.

The following are the major discussion outcome reported by departments.

Sl.no	Item	Action by	Target date
1.	<p>Subject Expert for CSE department Ms.Dincy George Senior Consultant, Deloitte Systems, Bangalore gave the following suggestion</p> <ul style="list-style-type: none">i. Include Standard programming guide lines in different programming languagesii. Include more industry based problem statements as experiments in practical sessions for programming languages	<p>CSE department</p> <ul style="list-style-type: none">i. Standard programming guide lines included in the syllabusii. Included one practical session for software project development	<p>As needed- Implementation shall be subject to approval from BoS</p>

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37th Meeting Minutes
26.03.2024

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	<p>Subject Expert for CSE department Mr. Vishnu Kumar V Chief Officer, Embedded Systems & IoT, V-Guard Industries Ltd, Cochin gave the following suggestion</p> <ol style="list-style-type: none">Include basic microcontroller conceptsInclude more topics based on neural networks	<ol style="list-style-type: none">Included 8051 microcontrollerIncluded deep learning subjects



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2.	<p>Subject Expert for EEE department Mr. Vidyasagaran P., Rtd. Director, Ericsson India gave the following suggestion</p> <ul style="list-style-type: none">i. Emphasis on basics of Electrical Engineering must be ensured in framing the syllabusii. Simulation exercises / realization of micro projects for core engineering subjects need to be implemented to enable them to have hand-on experienceiii. Kits shall be replaced with convention breadboard and connecting wires to have a better understanding of circuit design and debugging	EEE department	
	<p>Subject Expert for EEE department Dr. Rahul Sateesh, Department of Artificial Intelligence, Amrita School of Artificial Intelligence, Coimbatore (IQAC member) gave the following suggestion</p> <ul style="list-style-type: none">i. Special Electrical Machines including robotics, drone autonomous vehicle to be included in the syllabusii. Electrical Measurements to be included as a core	EEE department	As needed- Implementation shall be subject to approval from BoS



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	iii. subject as it is a basic essential in Industry iii. Concept of Bring Your Device (BYD) ,where each student having his own kit of breadboard, arduino boards, lab components to be introduced which will help them to realize their circuit ideas even beyond class hours.		
3.	Subject Expert for ECE department Mr. Vidyasagaran P.,Rtd. Director, Ericsson India and Dr. Anand R, Assistant Professor, ECE, Amrita School of Engineering, Coimbatore gave the following suggestion i. Implementation of Circuit Simulation, utilizing Physical Hardware within Electronics Circuits and Network Theory tutorials 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 iii. Integration of FPGA programming into the Digital	ECE department	As needed- Implementation shall be subject to approval from BoS



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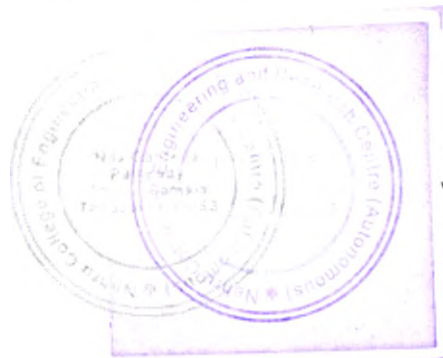
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	<p>System Design lab, emphasizing familiarity with industry-standard concepts such as TTL, fan-in, and fan-out</p> <p>iv. In the Linear Integrated Circuits Lab, provision of opportunities for each student to interface with op-amp circuits using a single power supply, while 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. To combine Electromagnetic Field Theory and Antenna theory as a single course</p>		
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4.	<p>Subject Expert for ME/MTR departments Mr. Karthikeyan Thiyagarajan ,Deputy Manager Quality,Orbinox India Pvt. Ltd.,Coimbatore, Tamil Nadu gave the following suggestion</p> <ol style="list-style-type: none">The syllabus must be in line with the current Industry neededThe syllabus should be framed with new technologies which is used in industriesSpecialized subjects like industry management , Quality concepts and Operation research can be included in the syllabusMechatronics engineering can be included with sensors and pneumatic concepts.For Mechanical engineering instrumentation concepts can be included	ME/MTR departments	As needed- Implementation shall be subject to approval from BoS
5.	<p>Mr. Sreejith K,R&D Engineer, Luminar Technolab, Cochin gave the following suggestion</p> <ol style="list-style-type: none">Domain Expertise Workshop shall include Aptitude Test Questions & HR Round Mock-ups -Industry	MCA dept. with support from Industry	As needed- Implementation shall be subject to approval from BoS



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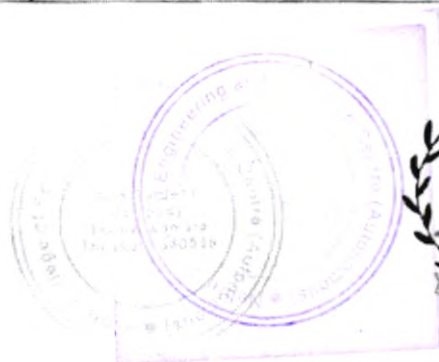
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	<p>can help the department to develop modules in Aptitude/HR sessions</p> <p>ii. Linked In profiles shall be initiated for ALL students which needs to be updated by the projects/activities during the MCA program Industry can aid to provide samples and also evaluate the Professional Profile of the students</p> <p>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</p> <p>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</p>		
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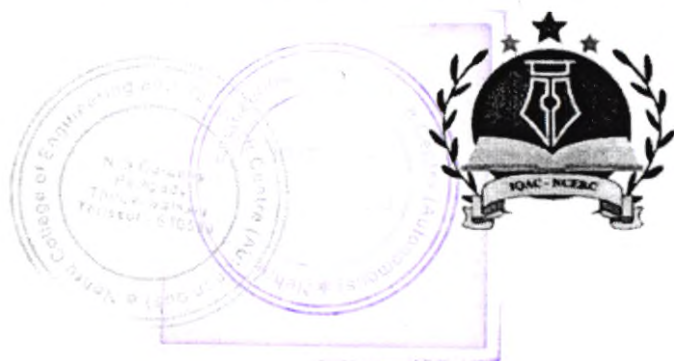
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Building True Citizens

6.	<p>Mr. Jimmy J Nalappat, Retd. AGM, HR & Vigilance, ITI Ltd, Palakkad gave the following suggestion</p> <ol style="list-style-type: none">Ethics concepts need to be included in Business Environment paper not in Business Communication as 3 Modules with Business Environment and 2 Modules with Ethics.Application aspects need to be concentrated more as practical component and to be implemented.In Finance Papers especially Financial Engineering electives, it was suggested to add/update new conceptsadapt the reality aspects of management through industry exposure.Inclusion of Recruitment and selection, retention, deferred payment, stock options, and retention bonus as compensation connected with IT Industry for Organizational Behavior Paper.Few modules in Human Resource Planning and Training and Development needs to be interchanged	MBA Department	As needed- Implementation shall be subject to approval from BoS
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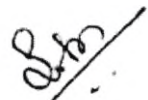


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vii.	concentrate on recent trends and few statutory compliance such as PF Act, Bonus and Gratuity.		
viii.	include some more disruptions in Industry 4.0 paper.		

Further to department level syllabus discussion, the IQAC members and subject experts assembled to have the concluding remarks. The subject experts appreciated the effort done by departments in drafting advanced syllabus and ensured continued support to Institution for implementation of academic autonomy.

MEETING CONCLUDED WITH THE THANKS GIVING FROM IQAC COORDINATOR


DIRECTOR IQAC ,NCERC

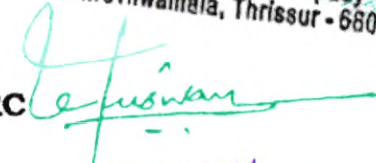



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ACTION TAKEN REPORT OF THE IQAC MEETING NO. 37 HELD ON 26th MARCH 2024

(APPROVED IN THE 38th MEETING HELD ON 26th APRIL 2024)

Sl. No	Item	Action by	Action taken	Remarks
1.	AY 2023-24 Even Semester Internal Audit - I	IQAC	Scheduled and completed	Completed
2.	Fine tuning of curricula and syllabi for autonomous college	HOD	Subject Experts Meeting held on 26 th March 2024 organized by IQAC	Work going on
PREPARED BY DIRECTOR IQAC NCERC				
APPROVED BY PRINCIPAL NCERC				

IQAC DIRECTOR NCERC



INTERNAL QUALITY ASSURANCE CELL – NCERC
37th Meeting ATR
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MINUTES OF THE INTERNAL QUALITY ASSURANCE CELL 38th 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:26th 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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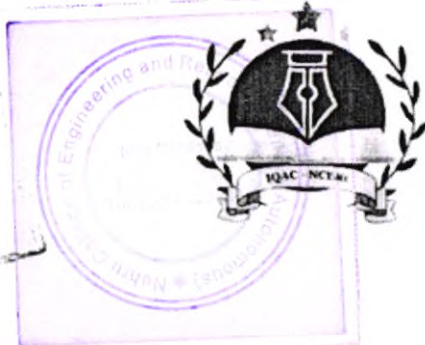
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8. Dr RahulSateesh -Professional Body Representative	18.Mr.Maheswaran K-Member Internal
9 Mr.Nandakumar R -Industry Representative	19.Ms.Anooja B -Member Internal
10.Mr.Santhosh K-Parent Representative	20.Ms. Anitha P -Member Internal
Special invitees	
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
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	
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.	



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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"> Standard programming guide lines included in the syllabus Included one practical session for software project development Included 8051 microcontroller Included deep learning subjects 	As needed- Implementation shall be subject to approval from BoS
2.	Changes done by Dept. of EEE	<ol style="list-style-type: none"> Emphasis given to basics of Electrical Engineering Simulation exercises / realization of micro projects for core engineering subjects implemented to enable them to have hand-on experience Kits replaced with convention breadboard and connecting wires to have a better understanding of circuit design and debugging. Special Electrical Machines including robotics, drone autonomous vehicle included in the syllabus 	As needed-



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		<ul style="list-style-type: none">v. Electrical Measurements included as a core subject as it is a basic essential in Industryvi. 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.	Implementation shall be subject to approval from BoS
3.	Changes done by Dept of ECE	<ul style="list-style-type: none">i. Implementation of Circuit Simulation, utilizing Physical Hardware within Electronics Circuits and Network Theory tutorialsii. 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 studiesiii. Integration of FPGA programming into the Digital System Design lab, emphasizing familiarity with industry-standard concepts such as TTL, fan-in, and fan-outiv. In the Linear Integrated Circuits Lab, provision of opportunities for each student to interface with op-amp circuits using a single power supply, while	As needed- Implementation shall be subject to approval from BoS



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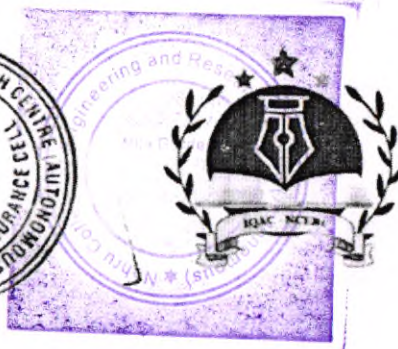
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		<p>also gaining proficiency in current driver circuits, mirror circuits, etc</p> <p>v. Expansion of Microcontroller studies to encompass modern controllers within the syllabus, with a particular emphasis on peripherals and interrupts.</p> <p>vi. 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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5.	Changes done by Dept. of MCA	<ol style="list-style-type: none"> i. Domain Expertise Workshop shall include Aptitude Test Questions & HR Round Mock-ups -Industry can help the department to develop modules in Aptitude/HR sessions 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 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 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 	<p>As needed- Implementation shall be subject to approval from BoS</p>
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6.	Changes done by Dept. of MBA	<ol style="list-style-type: none"> Ethics concepts need to included in Business Environment paper not in Business Communication as 3 Modules with Business Environment and 2 Modules with Ethics. Application aspects needs to be concentrated more as practical component and to be implemented. In Finance Papers especially Financial Engineering electives, it was suggested to add/update new concepts adapt the reality aspects of management through industry exposure. Inclusion of Recruitment and selection, retention, deferred payment, stock options, and retention bonus as compensation connected with IT Industry for Organizational Behavior Paper. Few modules in Human Resource Planning and Training and Development needs to interchanged concentrate on recent trends and few statutory compliance such as PF Act, Bonus and Gratuity. Include some more disruptions in Industry 4.0 paper. 	As needed- Implementation shall be subject to approval from BoS
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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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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 th 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.			
MEETING CONCLUDED WITH THE THANKS GIVING FROM IQAC COORDINATOR			


DIRECTOR IQAC, NCERC



INTERNAL QUALITY ASSURANCE CELL - NCERC
38th Meeting Minutes
26.04.2024


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ACTION TAKEN REPORT OF THE IQAC MEETING NO. 38 HELD ON 26th APRIL 2024

(APPROVED IN THE 39th MEETING HELD ON 22nd JULY 2024)

Sl No	Item	Action by	Action taken	Remarks
1.	AY 2023-24 Even Semester Internal Audit - II	IQAC	Scheduled and completed	Completed
2.	Fine tuning of curricula and syllabi for autonomous college as per BoS suggestions.	HOD	BoS Meeting completed in the month of May, June 2024	Completed
PREPARED BY DIRECTOR IQAC NCERC				
APPROVED BY PRINCIPAL NCERC				

M. S. S. S.
DIRECTOR IQAC NCERC



INTERNAL QUALITY ASSURANCE CELL – NCERC
38th Meeting ATR
Approved on 22.07.2024

Letuwan

CHAIRMAN-IQAC/PRINCIPAL
PRINCIPAL

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MINUTES OF THE INTERNAL QUALITY ASSURANCE CELL 39th IQAC MEETING AC.YR. 2023-24

Agenda-

1. Discussions on the commencement of S1 (2024 Admissions) and S3 (2023 Admissions) Batches
2. Any other matter with the permission.

Offline Mode,
Seminar Hall, Aryabatta Block

Date: 22nd July 2024

Time - 02:00 PM

Attendees: IQAC Members

- | | |
|---|--|
| 1. Prof. Dr. K. G. Viswanadhan Principal, NCERC & IQAC Chairman | 14. Dr. Rahul Sateesh - Professional Body Representative |
| 2. Dr. Mredhula L. Prof. & HOD, Dept. of ECE & Director IQAC | 15. Mr. Nandakumar R - Industry Representative |
| 3. Dr. Krishna Kumar T P, Prof. & HOD, Dept. of MBA | 16. Mr. Santhosh K - Parent Representative |
| 4. Dr. Sudheer S Marar, Prof. & HOD, Dept. of MCA | 17. Mr. Vysak Valsan - Coordinator IQAC |
| 5. Dr. Sobha Manakkal, Prof. & HOD, Dept. of EEE | 18. Mr. Pramod K - Member Internal/MCA |
| 6. Dr. Justin Jose, Prof. & HOD, Dept. of CSE | 19. Ms. Silja Varghese - Member Internal/CSE |
| | 20. Mr. Alex K - Member Internal/MBA |



INTERNAL QUALITY ASSURANCE CELL - NCERC
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- | | |
|---|---|
| 7. Dr. Anto Francis Cherussery, Prof. & HOD, Dept. of Mechatronics | 21. Ms. Sajitha A S - Member Internal/CSE-AI&ML |
| 8. Dr. Appadurai M, Asso. Prof. & HOD (i/c), Dept. of ME | 22. Mr. Rakesh P R - Member Internal/ME |
| 9. Dr. Jalaja K, Asso. Prof. & HOD (i/c), Department of Applied Science | 23. Ms. Neethu M - Member Internal/MTR |
| 10. Mr. M Srinivas - Management Representative | 24. Mr. Maheswaran K - Member Internal/EEE |
| 11. Mr. R. Ambikadas - Senior Administrative Officer | 25. Ms. Anooja B - Member Internal/ECE |
| 12. Ms. Vini Unnikrishnan - Local Society Representative | 26. Ms. Anitha P - Member Internal/BSH |
| 13. Ms. Dincy George - Alumni Representative | 27. Ms. Malavika S Madhavan - Member Student |

The meeting began at 2:00 PM. Principal welcomed all the members of IQAC. He directed Dr. Mredhula L, Director IQAC to go ahead with the proceedings

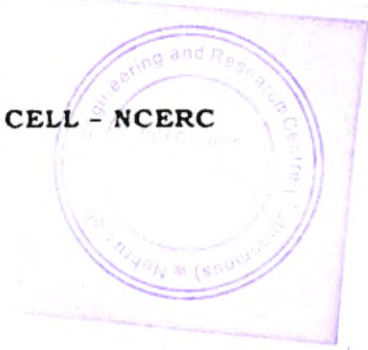
Director IQAC started the presentation by listing the action taken report (ATR) of previous meeting. The minutes and ATR of previous meeting was passed. The following are the major outcome reported during the 39th IQAC Meeting.

Sl. No	Item	Discussion Points/Action
1	Adoption of KTU Curriculum for S1 B Tech & M Tech/MBA/MCA	<ul style="list-style-type: none"> The IQAC reviewed the minutes of the BOS meeting held in the month May-June 2024 of all departments in connection with the syllabus setting under autonomous scheme.

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(2024-25 Admission):

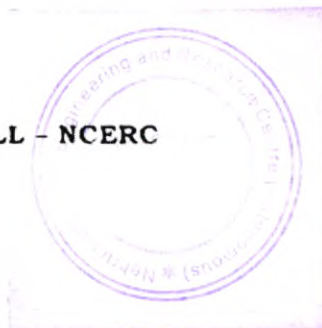
- KTU has introduced new curriculum and scheme from 2024 onwards for UG which was not available during the time of BOS meeting mentioned.
- IQAC has reviewed and discussed the new KTU curriculum 2024 and noted that regress changes and possibilities for student enhancement.
- IQAC recommends to modify the KTU 2024 structure for the B. Tech 2024-28 Batch (admitted under autonomous).
- For MBA/MCA, IQAC suggested to compare the syllabus of KTU and the already approved syllabus by Academic Council held on 31st May 2024 & 7th June 2024 before the commencement of the first semester classes of the 2024 admission. For M. Tech it is seen that the latest revision of KTU was in 2022 and thus decided to follow the syllabus of autonomous college already approved by BoS, Academic Council and Governing Body.

Continuation of S3 (2023-24 Admission) in KTU Scheme:

- After careful consideration, IQAC recommends to continue with the KTU Curriculum for the 2023 admission for B. Tech and M. Tech/MBA/MCA as they have completed their S1 and S2 under the same and appeared for the S2 university examinations.
- The S1 results are published by the KTU for the above batch of students. Adopting autonomous curriculum for these batch will affect in issuance of certificate.
- So IQAC recommends to continue the above B. Tech and M.



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39th Meeting Minutes
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Tech/MBA/MCA (2023-24 Admission) batches in the ongoing KTU Curriculum

3. Decisions Taken

- IQAC recommends to BoS on modifying the curriculum / syllabus for B.Tech programme 2024-28 batch Admission
- Ensure the 2023 Admissions of B.Tech and S3 M.Tech/MBA/MCA continues under the current KTU Scheme

MEETING CONCLUDED WITH THE THANKS GIVING FROM DIRECTOR-IQAC AT 04:00 PM

[Signature]
DIRECTOR IQAC, NCERC



[Signature]
CHAIRMAN-IQAC/PRINCIPAL

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