Gokaraju Rangaraju Institute of Engineering and Technology
(Autonomous)
Bachupally, Hyderabad-500090, Telangana State, India

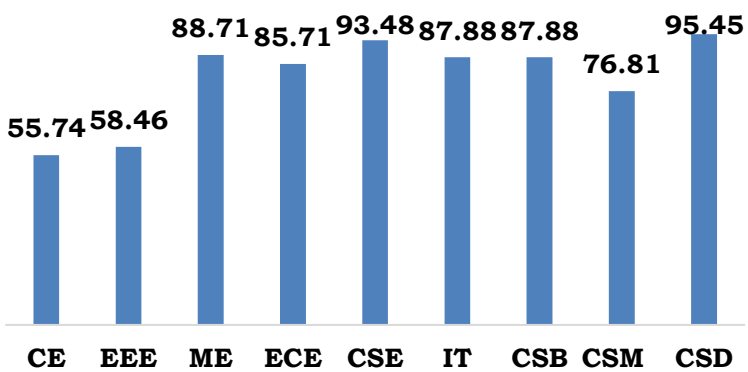## Minutes of 20th Internal Quality Assurance Cell Meeting

20th IQAC meeting was convened on 17 June 2023 (Saturday) at 14:00 Hrs. in Board Room, Block – 3, Gokaraju Rangaraju Institute of Engineering & Technology, Bachupally, Hyderabad and discussed the agenda points under the Chairmanship of Dr. J. Praveen, Principal, GRIET.

The following members were present.

S. No.	Name of Member	Position in the Current Engagements	Position in IQAC
1.	Dr J. Praveen	Principal, GRIET	Chairman
2.	Dr. Jandhyala N Murthy	Director, GRIET	Member, Management
3.	Dr. K V S Raju	Sr. Administrative Officer, GRIET	Member, Management
4.	Dr. K. Prasanna Lakshmi	Dean Academic Affairs	Member, Teacher
5.	Dr. Ch. Mallikarjuna Rao	Dean Controller of Examinations	Member, Teacher
6.	Dr. V. Rama Devi	Dean Finishing School	Member, Teacher
7.	Dr. M. Sridhar	Dean Student Affairs	Member, Teacher
8.	Sri P. Gopala Krishna	Dean Assessments & Accreditations	Member, Teacher
9.	Mrs. M. Aruna	Deputy Director, CII Telangana	Member, Local Society Nominee
10.	Dr. K. Sumanth	Dean Academics & Placements, SNIST	Member, Academics
11.	Dr. K. Madhavi	HOD CSE	Invited Member
12.	Dr. N V Ganapathi Raju	HOD IT	Invited Member
13.	Dr. G. Karuna	HOD, A.I. & M.L.	Invited Member
14.	Dr. V. Hima Bindu	HOD ECE	Invited Member
15.	Dr. B. Phaneendra Babu	HOD EEE	Invited Member
16.	Dr. B. Tanya	HOD ME	Invited Member
17.	Dr. C. Lavanya	HOD CE	Invited Member
18.	Dr. G. Patrick	HOD H&S	Invited Member
19.	Dr. V. Vijaya Rama Raju	Professor, Dean IQAC	Member Secretary

Member Secretary welcomed all the Members and HODs, and discussed the following points:

S. No.	Agenda	Deliberations /Resolution	Action by / Info to
1.	**To confirm the minutes of the last Meeting of IQAC held on 31 December 2022 (Saturday).**	No comments were received on the resolutions made at 19th IQAC Meeting held on 31 December 2022 at 14.00 hrs **Members passed the minutes of the IQAC Meeting held on 31 December 2022.**	All Members
2.	**To report the action taken on the minutes of the last meeting of IQAC held on 31 December 2022 (Saturday).**	Member Secretary presented Action Taken Report (attached as Appendix A) on the previous meeting minutes. **Members approved ATR.**	All Members
3.	**To review the performance in various academic activities and feedback analysis:**	• Classwork for I, II and III yr B.Tech II Sem is in progress. • Successfully completed the course work for IV yr B.Tech. II Sem in A.Y 2022-23. • Under "Education through Experiential Learning" theme, summer internships are planned for III yr B.Tech students and the same shall be evaluated in IV B. Tech I Semester along with the Project Work (Phase I). • All the Academic Activities are conducted in adherence to the Academic Calendar. Members reviewed the academic activities submitted by DAA for the previous quarter and deliberated on theme for the upcoming academic year. Members have approved "Multidisciplinary/Interdisciplinary research and education" as the theme for the Academic Year 2023-24. They have also recommended the following points under	

		academic activities.	
		Recommendations:	
		• **Submit the PO attainments reports and ATRs for the 2016, 2017, 2018 joined batches by 31 July 2023 to IQAC.**	HoDs
		• **Digitization of CO-PO attainment for CIE and SEE**	DAA & DoE
		• **The activities of all departments should be planned in accordance with the Academic Year 2023–2024 Theme: "Multidisciplinary/Interdisciplinary Research and Education."**	HoDs & Deans
		• **Dean HSCE is requested to present the status of Strategic Plan 2020-25 implementation in the next IQAC meeting proposed in October 2023**	Dean HSCE
		• **Completion of Video Lecture Recording Room by 31 July 2023**	DICT
4.	**To review the student performance in academics:**	Members reviewed the 2022-23 UG I - Semester results and observed there is a fall in pass percentage for the core branch students admitted during AY 2020-21. 88.71 85.71 93.48 87.88 87.88 95.45 76.81 55.74 58.46 **CE EEE ME ECE CSE IT CSB CSM CSD** Pass % of B.Tech. III-year (A.Y:2022-23, Sem-1) After deliberations members made the following recommendations:	
		Recommendations:	
		• **Suggested to continuously monitor the performance of core branch students joined especially in the A.Y.s 2020, 2021 & 2022 and conduct more remedial classes and provide study material for slow learners.**	DFS, HoDs
		• **Suggested to conduct at least one Hackathon by each department per year for the advanced learners.**	DAAC, HoDs

5.	To review the improvement in quality publications and research grants from various organizations:	**Research Status:** H-Index: 43 3	

Research Status:

H-Index: 43 3

Year	No. of Publications in Scopus	No. of Citations
2018	101	518
2019	297	870
2020	272	1307
2021	487	2713
2022	558	3573
2023*	163*	1300*

S. No	Details	2019-20		2020-21		2021-22		2022-23	
		No.	Amount	No.	Amount	No.	Amount	No.	Amount
1	Research Grants	13	64.87	2	53.16 6	2	96.04	6	74.5 7
2	MODROBS	1	12	1	11.56	--	--	--	--
3	Consultancy	6	31.44	4	22.23	6	65.09	4	15.5
4	Patents	10	--	31	--	09	--	14	--

*Amount in Rs. Lakhs

Members appreciated the efforts put by the R&D team for the improvement of Institute H-Index from 38 to and contribution for the improvement of NIRF ranking. Members deliberated on collaborative research with other reputed organizations and made the following recommendations.

Recommendations:

- **HoDs are requested to encourage their faculty to apply for at least one Interdisciplinary Project in the upcoming A.Y. 2023-24** — Dean R&D, All HODs

- **HoDs are advised to encourage their faculty to get at least one Industry sponsored project in the upcoming A.Y. 2023-24** — Dean R&D, All HODs

6.	To review the outcome of faculty development training programs conducted to improve their subject domain and pedagogical skills:	**Faculty Development Programs Attended:**						

Faculty Development Programs Attended:

Dept.	2018-19	2019-20	2020-21	2021-22	2022-23
BSH	72	701	350	218	123
CE	97	270	229	122	362
CSE	135	921	318	216	612
ECE	102	506	91	64	755
EEE	100	508	151	192	616
IT	148	721	422	265	172
ME	29	276	100	151	718
AIML	-	-	-	-	1143
FTDC	-	-	-	-	2754
Total	683	3903	1661	1228	7,255

Faculty Development Programs Organized:

Dept.	2018-19	2019-20	2020-21	2021-22	2022-23
BSH	3	20	1	4	2
CE	1	8	2	4	5
CSE	7	15	5	2	6
ECE	4	10	5	1	5
EEE	3	2	6	2	4
IT	7	9	1	3	3
ME	1	4	6	1	4
AIML	-	-	-	-	9
FTDC	-	-	-	-	5
Total	30	75	26	17	43

i) **FDPs Conducted in AY 2022-23***

- o The GRIET Faculty Training and Development Centre has conducted Faculty Induction Program for 54 newly joined Faculty from 3-11 May 2023.

- o Civil Engineering Department organized an FDP on Advancements in Construction Materials and Practices (ACMP 2023) 13th to 17th February 2023.

- o Civil Engineering Department organized an FDP on Value Added Course on IOT from 24 Feb – 15 March 2023

- o Civil Engineering Department organized an FDP on Value Added Course on Revit Architecture from 30/1/2023 to 4/2/2023.

- o IQAC organized a Training Program on HEIs preparedness for implementation of NEP- 2020 from 03-02-2023&04-02-2023.

- o Electrical Engineering Department organized an FDP on Power electronics, Energy storage and renewable technologies (PEESRT) For E-Transportation in India from 13-02-2023&25-02-2023.

- o AIML Engineering Department organized Training Programme on Big Data Analytics from 13-02-

2023 & 25-02-2023.

- o Computer Science and Engineering Department organized a seminar on Women Leadership on 17.02.2023.
- o Computer Science and Engineering Department organized an Industry Visit on 23.02.2023.
- o Mechanical Engineering Department organized an International Conference 14th ICMPC from 13th to 17th February 2023.
- o Electrical Engineering Department organized an FDP on Power electronics, Energy storage and renewable technologies (PEESRT) For E-Transportation in India from 06-03-2023 & 18-03-2023.
- o ECE Department organized a Guest Lecture on Chip Design and Careers in VLSI on 10- 3-2023.
- o AIML Engineering Department organized Training Programme on Digital Tools to Boost New Age Skills, Innovations and Startups at HEIs on 10-03-2023.
- o Computer Science and Engineering Department organized a Workshop on Metaverse 101 AICTE 2 Day Workshop in association with Creators of Metaverse- an AICTE program supported by Meta Platforms Inc., from 05-04-2023 to 06-04-2023.
- o AIML Engineering Department organized guest lecture on Plan Ahead Your Career on 28-04-2023.

Faculty Development Programs attended and conducted by faculty in each department were reviewed by the members and made the following recommendations.

Recommendations:

		• **Organize FDPs on the following topics:**
		    o **Implementing Outcome-Based Education (OBE) Framework**
		    o **Blooms Taxonomy– Application in Assessments (Exam Papers)**
			Dean FDP

						Dean FDP
			o **Creation of video lectures**			
			• **Organize at least one training program on non-technical skills and one on Technical Skills for Non-Teaching Staff**			

7.	**To review the status of accreditations and affiliations:**					

S No	UG Programme (B Tech)	Start	Accreditation Status
1	EEE	1997	First NBA Accreditation in 2006 Reaccredited in 2009, 2014, 2017 and 2020. Valid till 30.06.2023 Pre-Qualifiers were submitted on 08 May and SAR shall be submitted before 30 June 23
2	ME	1997	
3	ECE	1997	
4	CSE	1997	
5	IT	1999	
6	CE	2008	First NBA Accreditation in 2016. Reaccredited in 2019, 2023.Valid till 30.06.2025.

S No	PG Programme (M Tech)	Start	Accreditation Status
1	Design for Manufacturing	2004	First NBA Accreditation in 2016 and reaccreditation valid up to 30.06.2025
2	Power Electronics	2006	First NBA Accreditation in 2016 and reaccredited in 2019 and valid up to 30.06.2022. Expert Visit is conducted during 26-28 May 2023
3	VLSI	2006	First NBA Accreditation in 2018 and valid up to 30.06. 2020. On submission of Pre-Qualifier, received extension up to 30.06.2022 Expert Visit is conducted during 26-28 May 2023
4	Computer Science & Engineering	2007	
5	Structural Engineering	2014	
6	Data Science	2020	--

- UGC: Extension of UGC Autonomous Status for 10 Years 2021-2022 to 2030-2031

- NAAC- 2nd Cycle ('A++' Grade with CGPA 3.55) Valid upto 22nd February 2026

- Renewal of SIRO: 01.04.2020 to 31.03.2023

- AICTE EoA: 2022-23

- JNTUH Affiliation: 2022-23

Reviewed the status of accreditations and affiliations of

		the UG and PG programmes and made the following recommendations. **Recommendations:**	
		• **UG SARs shall be uploaded by 30 June 2023.**	Dean As. & Ac.
8.	**To review thestatus of studentactivities:**	Member secretary presented the various activities conducted by GRIET Student Clubs/ Professional Bodies/ Departments during the A.Y. 2022-23. Members appreciated the activities conducted by various student clubs and their coordinators, especially for organizing the flagship events like Annual Environmental Fest: REUDO-23, Annual Cultural Fest: Pulse 2K23 and Inter College Sports Fest for Students, Khelotsav – 2023. Deliberated on the importance of extracurricular activities and made the following recommendations. **Recommendations:**	
		• **2024 Dairy of activities to be prepared in line with the Academic Calendar Theme by 30 July 2023**	DSA
		• **2 Min Body Exercises + 2 Min Breathing Exercises + 2 Min Meditation every day at 10:00AM**	HoDs / Yoga Club Coordinator
9.	**Dissemination of informationon variousquality initiatives to all stakeholders:**	Members deliberated on the importance of disseminating the information about quality initiatives in social media to improve the perception about GRIET among the stakeholders and made the following recommendations. **Recommendations:**	
		• **All the HoDs are requested to prepare Departmental Brochures using Mind Maps to be circulated among the stakeholders by 30 July 2023**	HoDs/ Dean As. &Ac.
10.	**Review of Quality Initiatives and adoption of best practices:**	Dean IQAC presented the Quality Initiatives taken by GRIET-IQAC. • Published Booklet containing CO-PO-PI Mappings of all the departments. • Completed Internal & External Academic and	

		Administrative Audits (AAA) for the AY 2021-22.	
		• Submitted AQAR for 2021-22	
		• Organized A Two-Day National Level NAAC sponsored FDP (Offline) on "Higher Education Institutions' Preparedness for Implementation of National Educational Policy – 2020 (NEP-2020)" on 03 & 04 February 2023.	
		Members appreciated the Dean IQAC for successfully conducting NAAC sponsored FDP and reviewed the IQAC activities. Following recommendations were made after deliberations.	
		Recommendations:	
		• **Conduct Internal and External Academic and Administrative Audits for A.Y. 2022 – 23 by September 2023**	Dean IQAC

		• **Registration to**
		  o **Professors of Practice**
		  o **Undertaking Transformative Strategies and Actions in Higher Education (UTSAH)**
			Dean FDP

Meeting was concluded at 04:00 PM and proposed to conduct the next meeting in October 2023.

V. Vijaya Rama Raju
Member Secretary

Action Taken Report for IQAC Meeting held on 31 December 2022

S. No	Action Point	Action by	Status as on 12-06-2023
1.	Submission of CO-PO attainment Report and ATR for the Academic Year 2021-22 to IQAC	DAA	Preparation of CO-PO attainments reports is completed by all departments and the repository of the same is maintained in the departments for the AC 2021-22
2.	Report on the initiatives taken to carry out the "Education through Experiential Learning" theme.	HoDs	**CSE Department** has conducted activities like Problem based learning and implemented active learning strategies like Think Pair Share, Flipped Classroom, Mind Maps, etc. in the teaching learning process. **Civil Engineering department** has conducted Revit Architecture Certification Course for 50 students by Autodesk. **ECE Department:** *Project-Based Learning:* UG and PG minor and major projects expanded their cognitive thinking by making them to investigate, plan, and create tangible outcomes. This method has promoted/ promotes Autonomy and Collaborative Learning, managerial, creative and problem-solving skills in the students. *Internships:* All UG and PG students pursued Internship/ Industrial Training from various core companies in Electronics, AI/ML, Data Science and Communications Domain during the Academic Year 2022-23. *Simulations:* Students and Faculty were trained on Visual TCAD simulation tool in three different phases between January 2023 and April 2023. The tool is helpful in physical device modelling of VLSI Design. *Field Trips:* UG and PG students Field trips were organized to "Akshaya Patra Foundation" on 10/02/2023 for learning the implementation of Bulk Cooking mechanism using IoT techniques. *Service-Learning:* II and III B. Tech students of ECE are involved in teaching practical applications of EDGE AI and Mobile Applications to Laurus school children during 24-25 April 2023. **AIML Department** has conducted activities like Think Pair Share, Visualization Tool, Flipped Classroom, Skill Development program on Digital learning Techniques, Industry Visit

			and Mind Map. **Faculty Training & Development Center**, GRIET has organized FDP on *"Experiential Training on Innovative Teaching and Learning Methodologies ETITLM-2022-23"* for H&S Department faculty
3.	Register for Academic Bank of Credits, a platform to upload credits earned by students under Digi locker framework.	DE	Institute Registration Process is completed. Awaiting verification Process to upload student credentials.
4.	Status report on the implementation of NEP 2020.	DFDP	Registration for Academic Bank of Credits (ABC) and Professors of Practice (PoP) portals are in progress. B.Tech. with Minor in Artificial Intelligence & Machine Learning introduced from GR22 regulations. Awareness programs have been arranged for the faculty.
5.	Conduct awareness programs to students joined in A.Y. 2020 on OBE, Minors and Honors introduced in GR22 regulations.	DAA	Induction and Orientation Programme is successfully completed for students admitted in 2022 with awareness about GR22 regulations.
6.	Suggested to continuously monitor the performance of core branch students joined especially in the A.Y.s 2020, 2021 & 2022 and conduct more remedial classes for slow learners.	DFS, HoDs	Remedial classes have been held for core branch students joined in the A.Y.s 2020 and 2021 in the month of March 2023.
7.	Suggested to conduct Hackathons for advanced learners in the emerging areas like AI, ML, ARVR, etc.	DAAC	Advanced Academic Centre is planning to conduct training programs/ guest lecture/ Hackathons in collaboration with industry in the emerging areas like AI, ML, ARVR, etc. Encouraging students to participate in hackathons, ideathon and software development challenges etc. Swetha Soundararajan and her team have participated in the Hackathon titled "INNOVASIA 22", conducted by Vasavi College of Engineering, Hyderabad, on 3rd December 2022. The team secured First position with cash prize Rs.10,000/- in the Hackathon.
8.	Establishment of high-end computing facility to support Research & Development activities by faculty and students.	Dean R&D	A high-end computing facility centre has been established with 63 systems configured with I7 Processor & 8GB RAM and 189 Systems with I5 Processor & 8GB RAM.

9.	Submit report on H&S faculty with Doctorates associated with the B.Tech. projects during the academic year 2022-23.	HOD H&S	Dr. J. Saranya, Associate Professor of H&S department is guiding Mechanical Engineering department students along with Dr. R. Karthikeyan, Professor, Mechanical Engineering on "Investigations of Corrosion and Wear on Aluminium 7475 Reinforced with Rice Husk, Ash and Graphite"
10.	Submit the report on number of faculty awareness programs conducted on Paper writing, Funding opportunities, and Consultancy	Dean R&D	Two Programmes conducted on Research activities by Dr Amit Arora, Associate Professor, IIT Gandhi Nagar and Dr Nitin Muttil, Leader of Water Resources Research Group, VU, Australia.
11.	Focus on FDPs related to Innovative teaching learning methodologies	Dean FDP	All HODs, Deans and faculty have been encouraged for both organization and participation of programs related to Innovative teaching learning methodologies. The GRIET Faculty Training and Development Centre has organised Three Faculty Induction programmes during this academic year 2022-23 at GRIET to provide extensive exposure to the faculty for various Innovative Teaching and learning Methodologies through Practical Training Sessions by experts. Also, Other Departments either organised FDPs or Participated in FDS organised by other institutions that provide exposure to the Idea Lab ways of learning the topics such as 3D Printing and CNC, ETL – Data Warehousing Tools, Electronics System Design, Platforms & System Security in Cyberspace etc.
12.	Organize more FDPs related to Interdisciplinary and Intradisciplinary fields.	Dean FDP	GRIET and Departments organised FDPs related to Interdisciplinary and Intradisciplinary fields such as Internet of Things, Artificial intelligence applications in IOT, CE, ME etc.
13.	Organize FDPs on Emerging Fields of Engineering and Technology	Dean FDP	Departments either organised FDPs or Participated in FDS organised by other institutions that provide exposure to Data Science for Engineers, Solar Energy, AWS Programme, Natural Language Processing, Block Chain technology, 3D Printing, Machine Learning, Artificial Intelligence Applications, Communication on Onshore and Offshore Vessels etc.
14.	Organize FDPs on Management Capacity Enhancement	Dean FDP	The E-Cell of GRIET organised an FDP program E-Summit on Management Capacity Enhancement. E-talks is an event organised by EDC and IQAC in association with TiE, which took place on 23rd June 2022, Thursday. The event aimed at introducing successful entrepreneurs and their journeys to the students

			of GRIET. All Faculty are encouraged to participate in these programs.
15.	Organize FDPs on NEP-2020 Exposure and Implementation	Dean FDP	The management of GRIET is very much involving in the implementation of the NEP-2020 at GRIET. From 2020 onwards they are regularly monitoring the implementation progress. The Governing Body, Academic Council, and a Committee of Principal, SAO, HODs and Deans under the guidance of the Director continuously exploring all possible aspects of implementation of the NEP-2020 at GRIET. The NEP-2020 Coordinator is a senior Professor and Dean. A seminar was organized by Dean FD for sensitization of NEP-2020 for all HODs and Deans in March 2022. Three AICTE Distinguished Guest Lectures by Dr. Ashok Misra from IISc Bangalore were organised to provide a detailed information for exploration of NEP-2020 at Engineering Institutions in the academic year 2022-23. Dean IQAC has organized A Two-Day National Level FDP (Offline) on "Higher Education Institutions' Preparedness for Implementation of National Educational Policy – 2020 (NEP-2020)" in February 2023. The Faculty Development Program's main goals are to give participating academic administrators and senior faculty members in-depth insights on: a) NEP-2020's role in ensuring quality education in HEIs b) Identify challenges in the implementation of NEP-2020 in HEIs c) Discuss possible strategies for the successful implementation of NEP-2020 in HEIs d) Impact and Implications of NEP-2020 in HEIs e) Strategic planning on models, and approaches to sustain the quality in HEIs
16.	Conduct mock NBA inspection for all the 4 PG programmes who have submitted SAR and waiting for the inspection by 12 May 2023.	Dean As. & Ac.	Mock Inspections were conducted on 12 May 2023. Expert Visit for the Accreditation of 4 PG programmes was carried out on 26-28 May 2023.
17.	Follow-up with all the 5 UG program HoDs whose NBA accreditation is about to lapse by 30.06.2023 and request them to submit Pre-Qualifiers and Self-Assessment Reports (SARs) within the stipulated time	Dean As. & Ac.	NBA Pre Qualifiers were submitted on 08 May 2023 for 05 UG Programmes (CSE, EEE, MECH, IT, ECE) SAR Preparation is in progress and shall be submitted before 30 June 2023

	by 20 May 2023.		
18.	Conduct a greater number of activities for physical fitness	Physical Director	Department of Physical Education organized Annual Sports Meet which is intra college event and Khelostav which is a Inter College sports event.
19.	Organize yoga sessions on regular basis	HoD H&S/ Yoga Club Coordin ator	Not yet started for first-year students.
20.	Organize Hackathons on recent technologies by 06 May 2023	HoDs	Epitome '23 Hackathon organised on 27th & 28th January 2023. Smart India Hackathon was organized at CSE Dept, GRIET
21.	Make sure to post information about every GRIET event on our social media channels.	Dean As. & Ac.	All the Achievements are being hosted on social media on daily basis for greater visibility
22.	Increase the number of followers on our social media channels	Dean As. & Ac.	The achievements are being uploaded on social media for greater visibility hence the number of followers are also increasing.
23.	Conduct one activity on quality parameters sponsored by NAAC by 31 March 23	Dean IQAC	IQAC organized A Two-Day National Level NAAC sponsored FDP (Offline) on "*Higher Education Institutions' Preparedness for Implementation of National Educational Policy – 2020 (NEP-2020)*" on 03 & 04 February 2023.
24.	Conduct awareness programs on CO-PO-PI's Mappings in the departments	Dean IQAC	Organized awareness sessions on CO-PO-PI Mappings for all the program coordinators and faculty of H&S department. Published PO- Competencies -Performance Indicators and their mappings with COs for all departments.

Prof. V. Vijaya Rama Raju

Dean IQAC