GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ECE

Minutes of Meeting of Program Assessment Committee (PAC) held on 15th July 2024

Venue: Room Number-F121 Duration: 1:30 pm – 3:00 pm

Members

Sl. No.	Name	Role	Signature
1.	Prof. B. Hari Kumar	Dean, SE&CE	
2.	Dr.G.Sreelakshmi	Chairman, PAC	
3.	Dr.P.Vijai Bhasker	Member	
4.	Dr B.Leela Prakash	Member	
5.	Dr.P.Srihari	Member	
6.	Prof. OVPR Siva Kumar	Member	
7.	Mr. D. Venkata Rami Reddy	Member	
8.	Ms.J.Mrudula	Member	
9.	Ms.D.Madhavi Latha	Invited Member	

Agenda:

1. Analysis of first semester results of II B.Tech ECE (AR22), III B.Tech ECE (AR20) and IV B.Tech ECE(AR20) for the Academic Year 2023-24
2. CO attainments of first semester courses.
3. Faculty Development Programs conducted during first semester of the Academic Year 2023-24
4. Opportunities provided to students for better assimilation of the concepts through
   - Guest lecture(s)
   - Co-curricular activities
   - Industrial visit(s).
5. Mini projects

Resolutions/Discussions made:

Chairman, PAC started the meeting by welcoming all the members.

The following resolutions/Discussions were made in this meeting:

1. First semester results of II B.Tech ECE, III B.Tech ECE and IV B.Tech ECE for the Academic year 2023-24 were reviewed.
   - Overall pass percentage of II B.Tech I Sem ECE (2022 Batch) is **54.46**. The overall pass percentage of the same batch in their I B.Tech II Sem ECE was **48.94**.
   - Pass percentages in different courses of II B.Tech I Sem ECE which were reviewed are given below:

S.No.	Course Name	Pass percentage in AY 2023-24	Pass percentage in AY 2022-23
1.	Signals and Systems	67.32	50
2.	Digital Design	66.83	66.43
3.	Circuit Theory	68.81	61.65

   - Overall pass percentage of III B.Tech I Sem ECE (2021 Batch) is **70.04**. The overall pass percentage of the same batch in their II B.Tech II Sem ECE was **38.29**.

- Pass percentages in different courses of III B.Tech I Sem ECE which were reviewed are given below:

S.No.	Course Name	Pass percentage in AY 2023-24	Pass percentage in AY 2022-23
1.	Antennas and Wave Propagation	77.01	84
2.	Digital Design Through Verilog HDL	79.07	---

- Overall pass percentage of IV B.Tech I Sem (2020 Batch) is **85.83**. The overall pass percentage of the same batch in their III B.Tech II Sem ECE was **75.21**.

- Pass percentages of all courses of IV B.Tech I Sem ECE were above **90**.

2. The committee reviewed the attainments of Course Outcomes of all the courses offered in the first semester of the academic year 2023-24. CO attainment of the following courses was reviewed critically, as the attainment levels of these courses are below the target level set.

Year and Sem	Course	Internal	External	Direct Attainment	Indirect Attainment	Overall Attainment
II-I	Theory of Complex Variables	1.0	2	1	3	1.7
II-I	Signals and Systems	0.6	1	1	3	1.00
II-I	Digital Design	0.6	0.2	0.4	3	0.9
II-I	Electronic Circuit Analysis and Design	0.6	2	1.02	3	1.4
II-I	Circuit Theory	0.6	0	0.3	3	0.8
III-I	Computer Architecture and Microprocessors	0.8	2.5	1.8	3	2.1
III-I	Antennas and Wave Propagation	0.8	0.6	0.66	3	1.25
III-I	Control Systems Engineering	1	2	1.5	3	1.9
III-I	Digital Design Through Verilog HDL (PE-I)	0.95	1.2	1.1	3	1.58

3. The committee reviewed the Faculty Development Programs/Short Term Training Programs/International Conference conducted by the Department.

S.No.	Held on	Title of FDP/conference	Resource Person	Number of Faculty attended
1	13/7/2023 to 20/7/2023	Experiments of Microwave Engineering Lab	Mr.K.Satish Babu	10
2	22/7/2023	Experiments of EDA Tools and Simulation Lab	Mr.K.Victor	10
3	4/12/2023 to 8/12/2023	Experiments of Digital Design Lab	Ms.M.Uma Rani	10
4	15/12/2023 to 16/12/2023	International Conference on Machine Learning for Signal Processing, Communications and Control Systems	• Dr.K.Vasudevan, Professor, IIT Kanpur • Dr. A.G.Krishna Kanth, Vice-Chair for IEEE CAS/EDS Hyderabad Chapter, Director of Analog Mixed-Signal R&D at AMS Semiconductors	80

4. **Technical events/Guest Lectures/Industrial Visits organized**

a) **Technical events organized**

S.No	Date	Title of the Event	Organized by	Number of students Participated	Number of GCET students won the prizes/certificates
1.	22/7/2023	Internship opportunities to II B.Tech ECE Students	Srujanastra Club	250	NA
2.	5/8/2023	Design Thinking Ideas and Projects Expo - 2023	IEEE Student Branch, GCET	46	18
3.	15/9/2023	Electronixplore	IEEE CAS Student Branch Chapter, GCET	30	NA
4.	9/10/2023 to 13/10/2023	Workshop on Introduction to Arduino Programming	CoE IoT and ES, GCET	26	NA
5.	13/10/2023	Quizohilic 4.0	IETE Student Forum, GCET	100	-nil-
6.	13/10/2023	Mindzone 4.0	Srujanastra Club	46	3
7.	16/10/2023	Instromania 3.0	ISTE Student Chapter	139	9
8.	28/10/2023	IEEE Xtreme 17.0	IEEE Student Branch, GCET	35	35

9.	9/12/2023	QUIZZ WIZZ	CoE VLSI Design	84	0
10.	15/12/2023	Online QUIZZICS	IEEE Nanotechnology Council (NTC)	66	1
11.	26/12/2023 to 30/12/2023	Peer Learning Workshop on Integration of Digital Design concepts with ARDUINO board using Tinkercad Tool	CoE IoT and ES, GCET, ISTE Student Branch and Srujanastra Club.	27	NA
12.	20th - 30th December, 2023	Two Week Skill Development Program (SDP) On "Verilog Design using VIVADO (Vitis) Tools"	CoE VLSI Design and IEEE CAS-SB	35	6
13.	4th January, 2024	PBL Expo on Digital Design Lab	ECE Department	42	NA
14.	4th January, 2024	PBL Expo on Microprocessor an ALP	Srujanastra Club in association with CoE ES & IoT	43	10
15.	6th January, 2024	"Demo Day" on Electronic Circuit Analysis and Design Lab - PBL Expo	IIC in association with GCTE.	55	16
16.	20/1/2024	Navarith Pradarshan 2K24	CoE ES and IoT, ISTE Student Branch, IIC, JHUB and IQAC	49	49

b). Guest Lectures organized

S.No	Date	Title of the Guest lecture	Name of the resource person	Organization and Designation	No. of students benefited
1	5/7/2023 to 13/12/2023	A series of eight lectures on "Environmental Science"	Dr A.Hymavathi	Shreyas Institute of Engineering and Technology Professor, H&S Department	196

c. Industrial Visits

S.No	Year/Sem	Date of visit	Name of place and Industry visited	No. of Students	Faculty members accompanied
1	III/I	29/12/2023	Zen Technologies Ltd	106	4
2	II/I	06/12/2023	LED Chip Indus Pvt. Ltd.	30	2
3	II/I	07/12/2023	LED Chip Indus Pvt. Ltd.	30	2
4	IV/I	18/08/2023	Indian Green Building Council (IGBC)	91	4
5	III/I	19/10/2023	Re-Sustainability Ltd	25	3

5. All the students of IV B.Tech I Sem completed their mini projects during summer break and the performance is evaluated during this Semester.

Action points:

1. After reviewing the results of First Semester of AY2023-24, it is emphasized the need for conducting more tutorials, assignment tests and remedial classes in numerical problem/concept-oriented courses in Second year to improve the performance of the students.
2. After reviewing the CO attainment of all the courses, the committee identified the Course Outcomes, which are leading to low attainment in that course and asked the course coordinators to strengthen the Teaching Learning Process on those topics by adopting the innovation teaching methods, Project/problem-based teaching, Peer learning methods.
3. The committee recommended conducting more technical workshops, Project/program-based learning programs, aptitude, communication skills development programs, placement training programs and Entrepreneur awareness programs for the benefit of students.

Chairman, PAC thanked all the members for attending the meeting and the meeting is concluded at 3:00 pm.

Dr. G. Sreelakshmi 12/2/24
Chairman, PAC