Geethanjali College of Engineering and Technology
(UGC Autonomous)
(Recognized by AICTE, Permanently Affiliated to JNTUH, Accredited by NAAC with 'A' Grade)
Cheeryal (V), Keesara (M), Medchal (D), Telangana – 501301.

Department of Computer Science and Engineering

Dt:23-09-2021

CIRCULAR

Sub: - PAC meeting data-Reg

Program Assessment Committee (PAC) meeting for the A.Y. 2020-21(I-Sem) is tentatively scheduled on 29-09-2021. The following details of A.Y. 2020-21, I-Sem & II Sem are to be submitted to the department on or before 26-09-2021 without fail. The proposed activities for 2021-22 are also to be presented in the meeting.

S.No.	Details Required	Faculty Responsible
1	Result Analysis (2020-21, ISem)	Dr.B.V.Swathi, Sadana, Mamatha, Chandrakala, G.Mounica
2	Course Attainments & PO attainments (2020-21, ISem)	Dr.Gagan Deep, M.Raja Krishna Kumar, CO Assessments Team, PO Assessments Team
3	Feedback on Curriculum: • Course End Survey • Course Coordinator inputs • Alumni Survey • Industry • Recruiter Survey	V.Shivanarayana Reddy, K.Vijay Kumar, P.Aparna, Meena Sravathi
4	Department achievements	Prof. Madhu Sudhan Rao &Dr.A.Sree Lakshmi
5	Student related activities i) Guest Lectures/workshops/trainings organized ii) Certification programs conducted iii) Professional body events iv) Co-curricular and Extracurricular activities participation v) Student internships vi) Student achievements	Dr.G. Somasekar, P.Haritha, S.Radha, K.Padmaja, Uday Sree, P.Lalitha, K.Vandana, Shiva Prasad
6	Faculty related activities i) FDPs/workshops organized ii) FDPs/Workshops attended iii) Certifications obtained by faculty	Dr.Kamakshiah, Dr.Shanthi, Dr.Puja Prasada, Radhika Amareshwari, Vishwashanthi

25/9/21

	v)	Papers published in journals & conferences	Prasanna shetty, V. Rajeshwari
			Santhosh,
	vi)	Patents published	Madhavi,
	vii)	Projects applied	Uma Devi
	viii)	Projects sanctioned	
	viii)	Consultancy	
	ix)	Staff incentives provided	
	x)	Faculty achievements	
7	Projects: Project coordinator report		Dr. Hari Prasad Reddy
			Mr. V. Shiva Narayana
			Rahul Dev
8	Placement & Training		Dr. B.V. Swathi
	i)	Placements and higher education data of 2018-2019 and 2019-2020 batch	Preethi Prasade
	ii)	Recruiter survey	G. Swapna
	iii)	Placement related trainings	B. Aparna
			K. Srinivas
9	Industry Institute Interaction		Dr. K. Neeraja
	i)	Industrial visits	Dr. Santioshkar
	ii)	Students/Faculty events with industry resource persons	Dr. Rakesh
			Praveen
	iii)	labs established in association with industry	Shiva Prasad
			W. Alphonse
	iv)	Events conducted by the labs established in association with industry	C. Esther Varma (Inputs on PO/PSO)
	v)	Inputs on PO/PSO/curriculum from industry	
10	Incubation Cell		Dr. Neeraja
	i)	Activities conducted	Dr. Rakesh
	ii)	Student mentors	Shiva Prasad
	iii)	Projects done by students	
11	Club activities		Prof. Annaji
	i)	Robotics club	Dr. Rakesh
	ii)	Coding club	Praveen Kumar
			Vijay Kumar
			M. Keerthi

Dr. A. Sree Lakshmi
HoD-CSE

GEETHANJALI COLLEGE OF ENGINEERING & TECHNOLOGY

Department Of Computer Science Engineering

Minutes of Meeting of Program Assessment Committee (PAC) held on 30/09/2021

Venue: Seminar Hall, Floor II, Block 1
Duration: 1:30 pm - 4.00 pm

Agenda:

- Department achievements
- Result Analysis of 2020-21 I Sem. for II, III and IV B.Tech – CSE
- CO Attainments of 2020-21 I Sem courses.
- Students activities
- Faculty activities
- Internships, Mini and Major Projects analysis
- Training and Placement details
- Incubation cell and club activities.
- Feedback on Curriculum

Points Discussed:

At the outset, Dr A Sree Lakshmi, Head of the CSE department welcomed all the members to the meeting. An overview of the activities performed by the Programme Assessment Committee was given and members of the PAC were introduced.

1. Head of the department Dr A Sree Lakshmi made known the **Department Achievements** in the academic year 2020-21
    The following points were highlighted:
- Curriculum design and approvals AIML, Data Science, IoT and Cyber Security upto IV year.
- MoU with Cyber Security Centre of Excellence, DSCI, Hyderabad
- MoU with Virtusa
- Lab for IoT in association with CDAC under the MODROBs
- PhD Awarded: Dr. Rajesh Kumar Shrivastava, Dr. Rakesh Kumar Donthi
- I20RNational Innovative Educator Award 2020- Dr A Hari Prasad
- UGC-NET- JRF- Mr Uma Mahesh
- Projects Submitted: 4
- **1st Prize in JNTUH Innovation Challenge for the Prototype "Surface Disinfection System" by students of CSE**
- Details of department achievements given in Annexure 1.

2. **Result Analysis of 2020-21 I Semester:**
    I and II Semester results of B.Tech CSE II, III and IV for the Academic year 2020-21 are reviewed.
    i. Overall pass percentage in II B.Tech I Sem CSE is 63.47%, which has gone down by 11.5% compared to the previous batch of students.
    The pass percentage of all courses except Digital Design was considerably good. The overall pass percentage of Digital Design is 77.81% with one section having only 64.15%.
    ii. Overall pass percentage in III B.Tech I Sem CSE is 73.22%, which has increased by 7.66% compared to the previous batch of students. The pass percentage of all courses except Scripting Languages was considerably good. The overall pass percentage of SL is 82.04% with one section having only 69.81%.

iii. Overall pass percentage in IV B.Tech I Sem is 78.91%, which is increased by 17.71%. It is improvement compared to previous batch of students. The pass percentage of all courses except Computer Networks was above 90%. The overall pass percentage of Computer Networks 86.78%.

iv. The overall pass percentages of II year II Sem is 70.63% with DBMS contributing less than the other subjects 83.72%

v. The overall pass percentages of III year II Sem is 80.88% with WT contributing less than the other subjects 84.77%

vi. The overall pass percentages of IV year II Sem is 93.56%. All subjects have achieved more than 90%

vii. The results have been satisfactory.

viii. The pass percentages of I-I are very less with CSE having 57.5%, AIML having 58.33%, DS having 62.71%, CS having 73.33%, IoT having 42.37%. The reason could be attributed to the pandemic as students could not have offline classes.

3. **CO Attainments of 2020-21 I Sem courses:**

- The course attainments of academic year 2020-21 for I Semesters have been reviewed. The courses which could not attain the target of 2.1 were identified and the reasons and action taken have been analyzed.
- The report has been provided in Annexure 2.

4. **Students' Achievementsof 2020-21**

S.No	Student Related Activities		Total No.
1	Guest Lectures/workshops/ organized		8
2	Certification programs conducted	Certification from Cisco	89
		Certification from EPAM	1
3	Trainings Organized		8 (BEC, Six Phrase, CRT, EPAM, CISCO CCNA)
4	Professional body events	IEEE- Professional Body Events	26
5	Co-curricular activities participation		124
	Extra curricular activities participation	List of NSS Activities	16
6	Student internships	II Year:	No. Of Students: 153(Stipend: 4)
		III Year:	86(Stipend: 13)
		IV Year:	73(Stipend: 41)
7	Student achievements	GCET Coding Challenge 2021	Prizes Won: 3
		Google Cloud Career Readiness Program	1
		Papers published in Journals	2
		IPAS Challenge	4

5. Faculty related activities:

Summary of Faculty Related Activities

S.No	Events	Count
1	FDPs/workshops organized	04
2	FDPs/Workshops attended	42
3	Papers published in journals	18
4	Papers published in Conferences	05
5	Patents published	08
6	Projects applied	04
7	Projects sanctioned	00
8	Consultancy	00
9	Staff incentives provided	07
10	Faculty achievements	01

Rs.31,000/-

## 6. Mini and Major Project Report

Academic Year: 2020 -2021
Semester: I/ II
Class: IV CSE A/B/C/D/E

- Mini projects conducted towards the attainment of the program outcomes to be reviewed.

  Total No. of Projects: 87

  No. of multidisciplinary projects: 52

  No. of projects useful to the society: 82

  No. of projects which improve analytical thinking, creativity and innovation:87

  No. of projects which will facilitate employability: 87

  No. of projects published in Scopus Indexed Journals/Conferences: NIL

- Major projects conducted towards the attainment of the program outcomes to be reviewed.

  Total No. of Projects: 87

  No. of multidisciplinary projects: 54

  No. of projects useful to the society: 81

  No. of projects which improve analytical thinking, creativity and innovation: 87

  No. of projects which will facilitate employability: 87

  No. of projects published in Scopus Indexed Journals/Conferences: NIL

Prototype built Projects :

Batch Number	Roll No.	Name	Internal Guide Name	Title of the Project
A12	17R11A0516	J. MANEESH PREETHAM	D.RAKESH KUMAR	IoT based smart sanitizer with automatic temperature detection
	17R11A0522	MADAMANCHI SAI VASUKI		
	17R11A0540	SALVERU YAMINI		
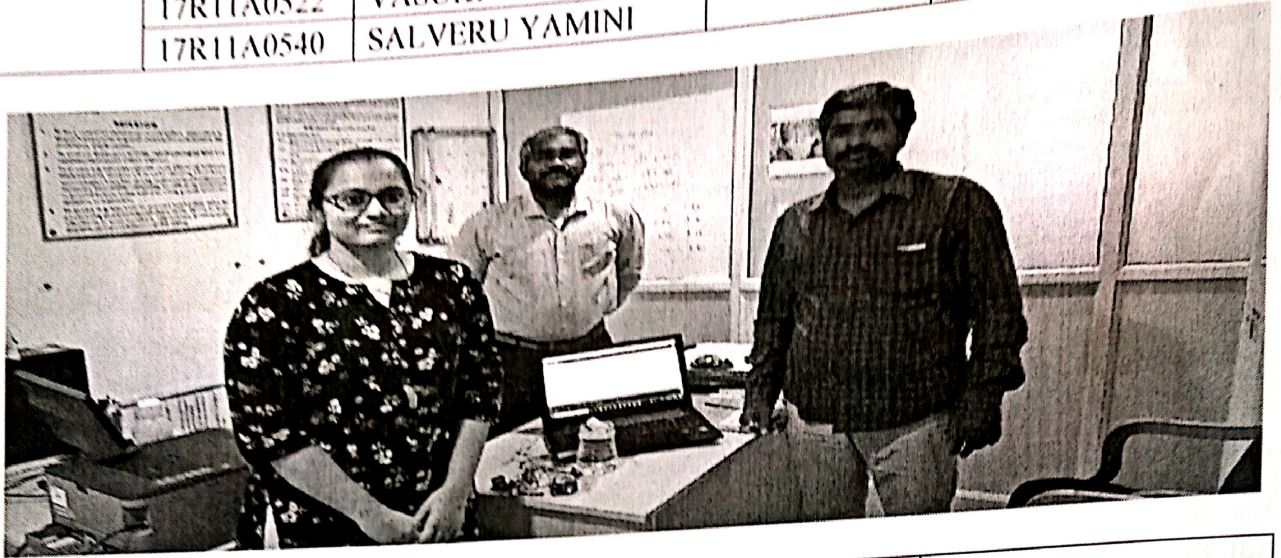
Batch Number	Roll No.	Name	Internal Guide Name	Title of the Project
A16	17R11A0520	KUNDURU SAI TARA	Y.SWATHI THEJAH	IoT early Flood Detection and Avoidance
	17R11A0521	VEDA SAMHITHA REDDY .M		
	17R11A0546	TRICHUNAPALLI RITHIKA		
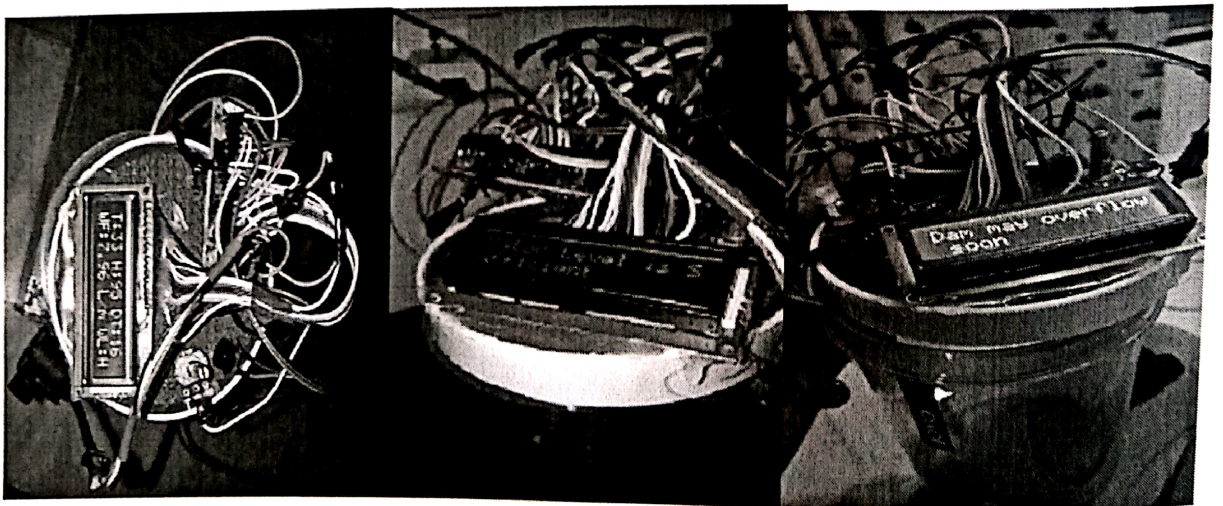
7. Higher Studies and Placement Information

A.Y	No. Of Students Graduated	No. Of Students Placed	Average Salary In Lakh Rupees	Median Salary In Lakh Rupees	No. Of Students For Higher Education
2020-2021	261	181	4.1	4.0	13
2019-2020	231	159	3.6	3.5	30

It may be observed that the number of students placed has been increasing and the average salary has also gone up from 3.6 lakhs in 2019-20 to 4.1 lakhs in 2020-21.

NO. OF STUDENTS FOR HIGHER EDUCATION
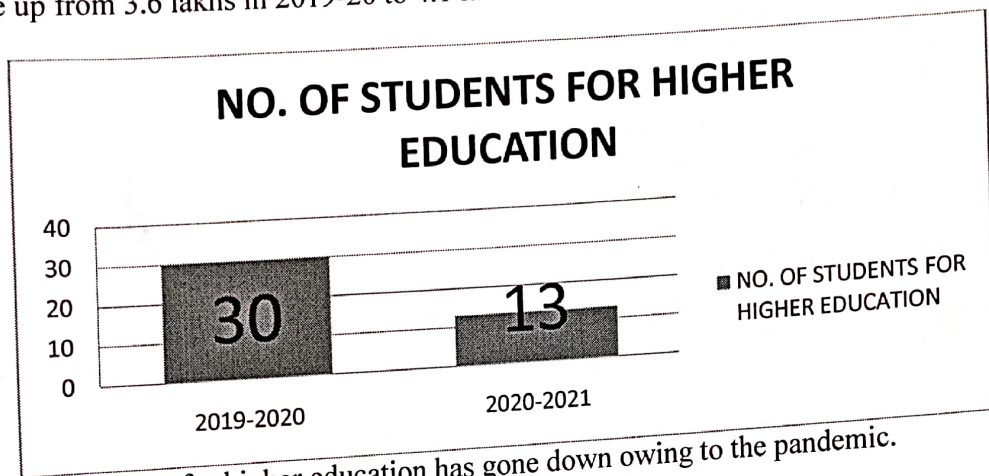
Number of students for higher education has gone down owing to the pandemic.

Trainings Conducted:

Sl.No	Training Program Details	Resource Person	Duration	Time	Contact Hours	Target Audience/ No. Attended
1	BEC	Prof. G Karuna Kumari	01-09-2019 to 31-03-2020 (180 Days)	2.00pm to 4.00pm	360 Hours	I Year CSE (46) & II Year CSE(9)
2	Training bySixPhrase	Faculty from Six phrase	28-12-2019 to 10-03-2020 (90 Days)	1.00pm to 4.00pm	72 Hours	IV Year CSE (246), III Year CSE(236) & II Year CSE(124)
3	Aptitude Training through Videos - Create U	1. Crisna Chaitanya Reddy 2. Vamsi Krishna Reddy	30-06-2019 to 15-07-2019 (15 Days)	1.00pm to 4.00pm	48 Hours	III Year CSE (246)
4	EPAM	EPAM Technical Team	20-01-2020 to 08-01-2021	7:00pm to 9:00pm	90 Hours	III Year CSE(69)
5	Service Now	Service Now Technical Team	14-03-2019 to 19-07-2019	7:00pm to 9:00pm	90 Hours	IV Year CSE(109)

SNO	Training Program Details	Resource Person	Duration	Time	Contact Hours	Target Audience No. Attended
6	Sales Force	Sales Force Technical Team	01-09-2020 to 30-11-2020	9.00am to 11.00am	120 Hours	IV Year CSE(
SNO	Training Program Details	Resource Person	Duration	Time	Contact Hours	Target Aud No. Attended
1	Training for DXC by SixPhrase	Faculty from Sixphrase	26-07-2020 to 04-08-2020 (10 Days)	1.00pm to 4.00pm	30 Hours	IV Year CSE (
2	Wipro Training by Selected Faculty from CSE Department	1. YVN PhaniKishiore 2. A Harekrishna 3. G Praveen Kumar Asst. Professor, CSE Department, GCET	1-08-2020 to 25-09-2020 (42 Days)	9.00am to 11.00am	84 Hours	IV Year CSE(151
3	Aptitude Training through Videos - Create U	1. Crisna Chaitanya Reddy 2. Vamsi Krishna Reddy	02-07-2020 to 10-08-2020 (30 Days)	2.00pm to 4.00pm	60 Hours	IV Year CSE (246)
SNO	Training Program Details	Resource Person	Duration	Time	Contact Hours	Target Audience No. Attended
4	Aptitude Training through Videos - Create U	1.Crisna Chaitanya Reddy 2. Vamsi Krishna Reddy	02-07-2020 to 10-08-2020 (30 Days)	2.00pm to 4.00pm	60 Hours	IV Year CSE (246)
5	Aptitude Training through Videos - Create U	1. Crisna Chaitanya Reddy 2. Vamsi Krishna Reddy	27-09-2020 to 12-10-2020 (16 Days)	1.00pm to 4.00pm	48 Hours	IV Year CSE (246)
6	Training for Cognizant by SixPhrase	Faculty from Sixphrase	01-10-2020 to 10-10-2020 (10 Days)	1.00pm to 4.00pm	30 Hours	IV Year CSE (171)
7	Smart Interviews Training	Faculty of Smart Interviews	29-09-2020 to 11-02-2021	5.00pm to 8.00pm	60 Hours	IV Year CSE,ECE,EEE (92)
8	EPAM	EPAM Technical Team	01-09-2020 to 31-10-2020	7:00pm to 9:00pm	30 Hours	IV Year CSE(65)

- It has been observed that if trainings were started early ie., in 2-1, students would be much more benefited.
- Conveying information to students properly is also very important.

8. Incubation Cell and Club Activities

- Industrial -internship -summer training: There have been no industrial visits owing to the pandemic.

Robotic Projects

S.No	Name of the project	Team Size	Students	Faculty Coordinator
1	Humanoid	4	N. N. Denesh G. Sai siddharth reddy Manasa Ameeta	Y. V. N.Phanikishore
2	Semi-Humanoid	4	Harish Varun J. Sowjanya Keerthana M. Sai Tejasree	A. HariKrishna
3	Drone	4	B. Divya Sai Sathwik Shivani Srija Bharath	G. Praveen
4	Mars Rover	7	Abhishek Vaibhav A. Sai krupa Chary Shraddha Shrija Varun Harish	G. Praveen

Coding club

S.No	Event	Organization	Target Audience	Date	No. of Participants
1	Code-Ethon	GCET	Open to All	7th March 2019	76
2	Peer Learning on Python	GCET	Students of 2nd and 3rd Year	23rd Feb 2019	35
3	Technofun	GCET	Open to All	28-29/Sept/2019	61
4	Programming Quiz	GCET	Open to All	20– 08 – 2018	93
5	CODE –ETHON- (BHASWARA-)	GCET	Open to All	12 MARCH 2020	35

CODING CLUB

Series of Guest lectures conducted (online)

S.NO	Date	Topic	Resource Persons
1	6-04-2021	Computational thinking and problem solving	Dr L Venkateswarlu
2	10-04-2021	Python programming-I: Introduction to Python. History of python. print()function. Programs based on print statement.	Prof. VV Appaji
3	17-04-2021	Python programming-II: input() function. Programs based on input () Function. Standard data types. Int, float etc.	Prof. VV Appaji
4	22-04-2021	Discussion of Hackerearth April circuits 2021.	Dr L Venkateswarlu
5	24-04-2021	Python programming-III: sample programs based on nested loops.	Prof. VV Appaji

CODING CLUB

Series of Guest lectures conducted (online)

S.NO	Date	Topic	Resource Persons
6	1-05-2021	Python programming-IV: Introduction to functions. Different types of functions.	Prof. VV Appaji
7	8-05-2021	Python programming-V: programs based on functions.	Prof. VV Appaji
8	15-05-2021	Python programming-VI: Conditional statements with examples.	Prof. VV Appaji
9	22-05-2021	Python programming-VII: iterative statements while and for loops with examples	Prof. VV Appaji
10	29-05-2021	Python programming-VIII: reserved words. Different format of print().	Prof. VV Appaji

CODING CLUB

CODING CLUB

THE RESULTS OF THE "GCET CODING CHALLENGE 2021"HELD ON 14-04-2021.

THE NAMES OF THE WINNERS ARE:

S. NO	PRIZE	ROLL NO	NAME	RANK	MARKS	CASH	Hackerrank User Name
1	FIRST	20R11A05K3	E. HIRANMAYA SHARVANI	9	755	2000	20r11a05k3
2	SECOND	18R11A0596	JEEVANI YEDLAPATI	18	600	1500	2000_jeevani
3	THIRD	17R11A05E0	PHANI SAI	20	592.5	1000	5E0_phanisai

CODING CLUB
ACTION PLAN FOR ACADEMIC YEAR 2021-2022

Month Of Event	Event Name	Description	Department
September	Output Un lockers	A set of 30 MCQS will be given. Students need to trace the code and need to select the desired output.	CSE & CSEEA
October	Mish Mash Harmony	A set of programs will be given in a un order fashion. Student needs to rearrange the code which expects the original result	CSE & CSEEA
November	Code Warriors	Students need to crack the code	CSE & CSEEA

9. **Feedback on Curriculum**

Course Coordinator Inputs:

Course Title	Recommendation for course improvement	Recommendations to PAC and BoS
II Year		
Advanced Data Structures	As students were unable to implement the applications of basic data structures, they must be made to practice more programs.	Course outcomes may be modified to map each CO to the corresponding unit.
Digital Design	The course is very important for CSE students, because knowing about computer constructing logics and simplifying computer hardware size makes the students' learning approach and interest to learn the course. And this course weakness is it's logic, difficulty to understand immediately.	
Object Oriented Programming using Java	1. Students must acquire proper skills from stated prerequisites. 2. Students should improve their programming knowledge.	
Discrete Mathematics	Usage of writing pad during online classes would give the students a classroom environment there by reaching them in a more appropriate manner.	
Probability and Statistics	To get the student's attention, students need to be motivated by conducting some guest lectures by eminent scientists and professors.	
III Year		
Computer Networks	Students practiced simulation of different network topologies,	

	routing algorithms, network commands and Server Configurations. Weakness: Students need to develop prototypes/models related to Computer Networks concepts.	
Intellectual Property Rights	Guest lectures can be arranged to reduce the monotonous learning.	
IV Year		
Compiler Design	Technical and logical concepts will improve-strength, should practice more problems.	
Computer Networks		Computer networks course is placed in the Program Structure as IV year I Semester for the AR16 regulation. Students face some difficulty during campus placements, because a greater number of questions were asked in campus interviews related to computer networks. So, it would be better to place Computer Networks Course in the 3rd year CSE Program Structure.
Cloud Computing	By practical sessions, students would be able to create instances, will understand the VMMs. They can have the knowledge of using Amazon web services. Weakness: Every student should have AWS free tier account. If not, they are unable to do practical sessions.	
Big Data Analytics	• Conducting more guest lecture.	Lab must be established

Inputs from Industry:(Suggestions and implementations)

1. Include courses required for working in industry: Motivating students to take up In-house Projects (Internships, Mini, Major Projects, PBL) under MOUs with various Industries.
2. Latest courses may be included: Statistics for Machine Learning Course with Laboratory has been included.
3. Give more importance to practical applications than theoretical knowledge:AI , ML ,IOT , Block Chain Technologies.
4. Suggested to add RESTful web services in Web Service course : We have added RESTful web services in Web Services Course
5. Conduct workshops, lectures from organizations for students which will help them in their career:Conducting guest lectures on atleast two subjects in each semester.

Recruiters Survey :

No of Recruiters given feedback :5

Recruiter Survey Question	No. of recruiters awarded with 1 points	No. of recruiters awarded with 2 points	No. of recruiters awarded with 3 points	No. of recruiters awarded with 4 points	No. of recruiters awarded with 5 points	% of recruiters awarded with 3 to 5 points
a. Obtain solutions to engineering problems, specifically Computer Science Engineering and provide quality services to engineering related industries	0	0	0	0	5	100%
b. Be creative and innovative in producing state of the art technologies related to computer science and its applications in various fields.	0	0	0	2	3	100%
c. Involve in engineering projects that were aimed at improving the quality of life and well-being of the society	0	0	0	2	3	100%
d. Adapt to changes in work environment (for example, to learn new software, operate new equipments, and learn about new systems) and continuously undertake professional development?	0	0	3	1	1	100%
e. Act professionally and ethically while making significant contributions for the benefit of community, region, nation and beyond by leading a team as well as being a team player	0	0	0	2	3	100%
f. Communicate effectively and demonstrate interpersonal skills	0	0	0	2	3	100%

Do the program outcomes meet future employment needs of students and assist them acquire meaningful values and required skills? (Yes)

Recruiter Survey Question	% of recruiters awarded with 3 to 5 points
a. Obtain solutions to engineering problems, specifically Computer Science Engineering and provide quality services to engineering related industries	100%

b. Be creative and innovative in producing state of the art technologies related to computer science and its applications in various fields.	100%
c. Involve in engineering projects that were aimed at improving the quality of life and well-being of the society	100%
d. Adapt to changes in work environment (for example, to learn new software, operate new equipments, and learn about new systems) and continuously undertake professional development?	100%
e. Act professionally and ethically while making significant contributions for the benefit of community, region, nation and beyond by leading a team as well as being a team player	100%
f. Communicate effectively and demonstrate interpersonal skills	100%

The recruiter survey analysis of 2020 graduated batch is fairly good

Suggestions and Action Points:

1. It was observed that attainment of objective type is considerably less through all subjects. Students are unable to attempt the objective as the questions are to the point and need in depth knowledge of the subject.
2. Students must be given more numbers of objective questions which may be included as part of the assignment.
3. It has been suggested that feedback from parents must be considered as one of the indirect rubric for PEO attainment after 2 to 3 years of graduation of their wards. This will be reflected in PEO attainment calculation from 2015-19 batch onwards. Parents expect a bright career and higher education of their wards; and their feedback is always appreciated by the department. A survey will be conducted to seek parents' views and comments in assessing if they think our graduates have accomplished these PEOs.
4. The number of projects sanctioned is Nil this year also. Professors and senior faculty are requested to try to get their projects sanctioned.
5. It has been suggested that incentives for faculty may be increased.
6. More number of FDPs may be planned.
7. It has been suggested that the data related to projects may be maintained in GitHub so that a student can refer to previous projects. It is clarified that all projects are being maintained in the incubation Center.
8. It is also suggested that students must be made to create LinkedIn accounts.
9. In-house journal may be initiated to publish student projects.
10. It has been suggested that incubation cell activities must be increased.
11. As proof of incubation activities are maintained at the college level, the same proofs must be maintained at the department level too.
12. Course level Project Based Learning must be implemented immediately.
13. Coding challenges are tentatively planned during Diwali.
14. Course coordinators are instructed to submit the analysis report regarding the Course Attainments after discussing with all the other instructors of the same subject.
15. Inputs on curriculum from various stakeholders must be considered while framing the syllabus.
16. The suggestions must be conveyed to the course coordinator of the following year so that appropriate decision can be taken based in the inputs.

17. Feedback on curriculum from Alumni can be collected by the faculty who has a good rapport with the students. More inputs can be expected in doing so.

18. The number of inputs from recruiters is very less. Faculty may be sent to the recruiters and get the form filled.

Members Attended:
1. Dr. A. Sree Lakshmi-HoD CSE
2. Prof Madhusudhan- Dean
3. Dr. G. Soma Sekhar
4. Dr K Srinivas
5. Dr Gagandeep
6. Dr K Neeraja
7. Dr. KamakshaiahKolliGeet
8. Dr. Swathi Veldanda
9. Dr M Shanthi
10. Dr L Venkateswarlu
11. M Raja Krishna Kumar Geet
12. V VAppaji
13. D.Venkateswarlu
14. V Shiva Narayana Reddy
15. G Nivedhitha
16. P. Lalitha
17. G Lokeshwari
18. B Mamatha
19. C Esther Varma

Dr A. Sree Lakshmi
HoD- CSE

Prepared By
C Esther Varma