



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

కాకతీయ ప్రేక్షాగికి ఎవ్ విజ్ఞాన సంస్థాన, వరంగల్ - ౫౦౬ ౦౧౫ తెలంగాణ, భారత్

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము

(An Autonomous Institute under Kakatiya University, Warangal)

(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



WELCOME
To
CHAIRMAN & MEMBERS OF
NAAC Peer Team

18-19 March, 2024

Dr. P. Niranjan
Professor & Head

Department of Computer Science & Engineering



Department of Computer Science & Engineering

Outline

Vision & Mission

Programs Offered & Accreditation Status

1. Curricular Aspects

2. Teaching-Learning and Evaluation

3. Research, Innovations and Extension

4. Infrastructure and Learning Resources

5. Student Support & Progression

6. Governance, Leadership and Management

7. Departmental Values and Best Practices

Department of Computer Science & Engineering

Vision

- Attaining centre of excellence status in various fields of Computer Science and Engineering by offering worth full education, training and research to improve quality of software services for ever growing needs of the industry and society.

Mission

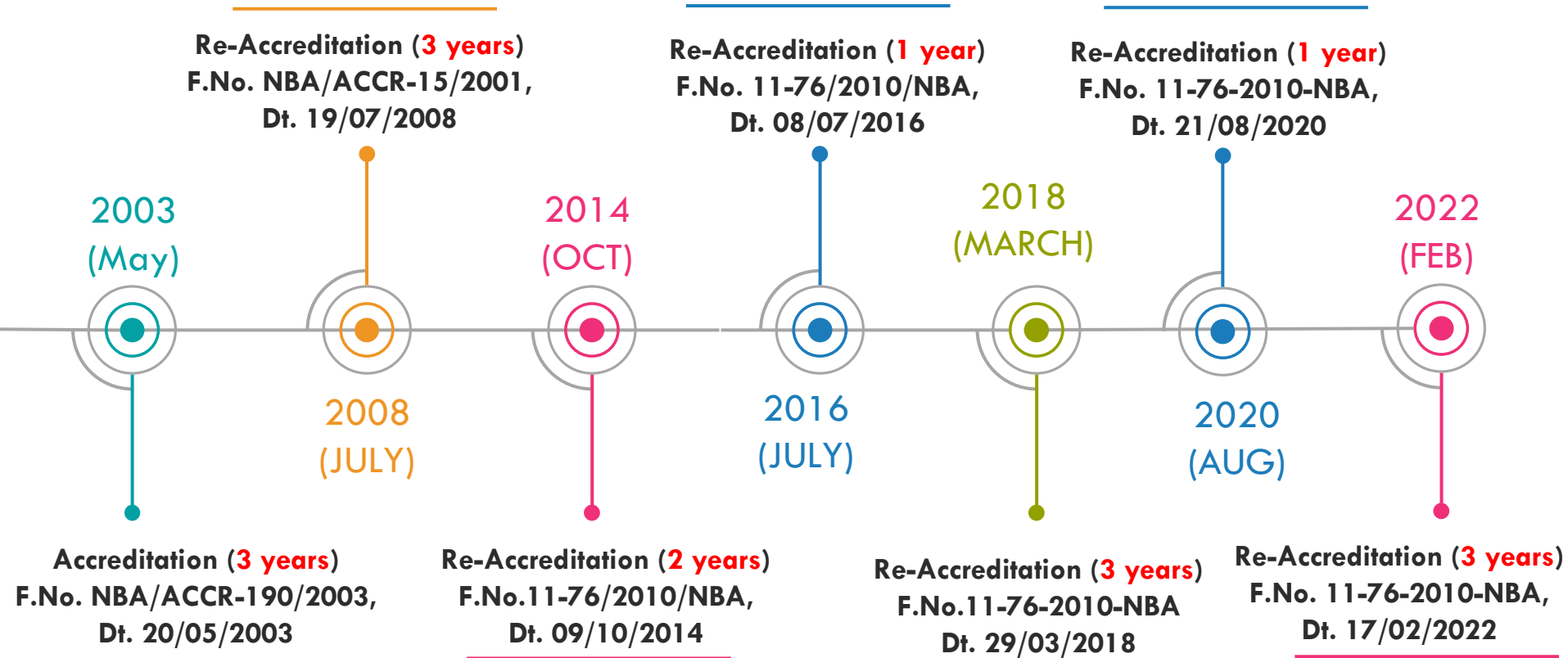
- Practice qualitative approach and standards to provide students better understanding and profound knowledge in the fundamentals and concepts of computer science with its allied disciplines.
- Motivate students in continuous learning to enhance their technical, communicational, and managerial skills to make them competent and cope with the latest trends, technologies, and improvements in computer science to have a successful career with professional ethics.
- Involve students to analyze, design and experiment with contemporary research problems in computer science to impact socio-economic, political and environmental aspects of the globe.

Department of Computer Science & Engineering

Programmes offered:

S. No	Programme	Specialization	Year	Intake
1	B. Tech	Computer Science & Engineering (CSE)	1994	60
			2004	120
			2015	180
2	M.Tech	Software Engineering (SE)	2004	18
			2006	25
			2011	36
			2021	12
3	Ph. D	Computer Science & Engineering (CSE)	2005	16 06 -Awarded 10 – Pursuing

NBA Accreditation Timeline



Department of Computer Science & Engineering

Accreditation

Programme	Accreditation Status	Period of Validity	NBA Letter
B.Tech.- Computer Science & Engineering	Re-Accrediation-6	3 Years (Academic Years 2021-2022 to 2023-2024 i.e. up to 30-06-2024)	F.No. 11-76-2010-NBA, Dt. 17.02.2022
	Re-Accreditation-5	1 Year (Academic Year 2020-2021 i.e. up to 30-06-2021)	F.No. 11-76-2010-NBA, Dt. 21.08.2020
	Re-Accreditation-4	3 Years (Academic Years 2017-2018 to 2019-2020 i.e. up to 30-06-2020)	F.No.11-76-2010-NBA Dt. 29.3.2018
	Re-Accreditation-3	1 Year (Academic Year 2016-2017 i.e. up to 30-06-2017)	F.No. 11-76/2010/NBA, Dt. 8 th July,2016
	Re-Accreditation-2	2 Years (Academic Year 2014-2015 to 2015-2016 i.e. up to 30-06-2016)	F.No.11-76/2010/NBA, Dt. 9 th October,2014
	Re-Accreditation-1	3 Years (Academic Year 2008-2009 to 2010-2011 i.e. up to 30-06-2011)	F.No. NBA/ACCR-15/2001, Dt. 19 th July,2008
	Accreditation	3 Years (Academic Year 2003-2004 to 2005-2006 i.e. up to 30-06-2006)	F.No. NBA/ACCR-190/2003, Dt. 20/05/2003
M.Tech - Software Engineering	Accreditation	2 Years Academic Years 2023-2024 to 2025-2026 i.e. up to 30-06-2026	F.No. 11-76-2010-NBA Dt. 30.11.2023

Department of Computer Science & Engineering

PROGRAM OUTCOMES	<i>At the time of graduation, the Computer Science & Engineering graduates will be able to</i>	
PO1	<i>Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.</i>	Engineering knowledge
PO2	<i>Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.</i>	Problem analysis
PO3	<i>Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.</i>	Design/development of solutions
PO4	<i>Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions</i>	Conduct investigations of complex problems
PO5	<i>Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations</i>	Modern tool usage
PO6	<i>Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.</i>	The engineer and society

Department of Computer Science & Engineering

PROGRAM OUTCOMES	<i>The graduates of Computer Science & Engineering will be able to</i>	
PO7	<i>Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.</i>	Environment and sustainability
PO8	<i>Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.</i>	Ethics
PO9	<i>Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.</i>	Individual and team work
PO10	<i>Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.</i>	Communication
PO11	<i>Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments</i>	Project management and finance
PO12	<i>Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.</i>	Life-long learning

Department of Computer Science & Engineering

Program Specific Outcomes (PSOs)	At the time of graduation, the COMPUTER SCIENCE & ENGINEERING graduates will be able to
PSO1 Software Development and Quality Assurance	Transform various legacy or manual systems into computer automated systems using modern programming languages, integrated development environments and apply testing tools for efficient verification and validation of this software systems.
PSO2 Maintenance	Demonstrate knowledge in fixing and updating multidisciplinary software problems working in real time environments.
PSO3 Immediate Professional Practice	Work as software practitioner or continue higher education by adopting advanced technologies in various fields of Computer Science & Engineering.

Program Educational Objectives (PEOs)	Within first few years after graduation, the COMPUTER SCIENCE & ENGINEERING graduates will be able to ...
PEO1	Escalate the technical skills within and across disciplines of Computer Science & Engineering for productive career by maintaining professional ethics
PEO2	Develop and exercise their capabilities to demonstrate their creativity in engineering practice and exhibit leadership with responsibility in teamwork.
PEO3	Refine their knowledge and skills to attain professional competence through life-long learning such as higher education, research and professional activities.

M.Tech – (POs , PSOs & PEOs)

The postgraduates of SOFTWARE ENGINEERING will be able to

PO1	independently carry out research /investigation and development work to solve practical problems
PO2	to write and present a substantial technical report/document
PO3	demonstrate a degree of mastery over the area as per the specialization of the program

PSO1 (Research Orientation)	Apply appropriate software design, tools, techniques, report writing skills and conduct experiments to solve research issues in contemporary domains of computer science.
PSO2 (Industry Ready)	Demonstrate comprehensive knowledge of various stages of software development life cycle in solving real world problems by adapting the current software engineering tools and principles from the literature.

The post graduates of SOFTWARE ENGINEERING graduates will be able to ...

PEO1 (Research and Innovation)	Enhance the computer science and software engineering technologies by contributing in research and developing the innovative software applications.
PEO2 (Technical Expertise & Successful Career)	Perform well in industry profession, teaching and entrepreneurship with rapid adaptation of current trends in software engineering and computer science domains.
PEO3 (Soft skills and Life Long Learning)	Demonstrate professional ethics, project management principles, communication and technical report writing abilities in solving real world problems by adapting the current research for the sustainable development of society.

Milestones of the Department

2023-24

- M.Tech.(SE) Programme accredited by NBA under Tier-I for 2 years w.e.f. A.Y. 2023-24.
F.No. 11-76 2010-NBADt. 30.11.2023

2022-23

- Medaram Jathara Mobile Application developed by the department for the Telangana State Road Transport Corporation (TSRTC).

2021-22

- UG-Programme reaccredited for three years by National Board of Accreditation **F.No. 11-76- 2010-NBA, Dt. 17.02.2022**

2020-21

- Mr. Md.Sharfuddin Waseem and Prof. P. Niranjana received a Grant of Rs.40.43 lakhs from DST-SEED Division, Ministry of India for *"Automation of Farming Tools for Smart Farming using Android Application (A Gaming Approach)"*.
- UG-Programme accreditation extended for one year by National Board of Accreditation **F.No. 11-76-2010-NBA, Dt. 21.08.2020**
- Prof. P. Niranjana, received a Grant from AICTE-Short Term Training Program (STTP) of Rs. 1.86 lakhs for conduction of FDP on *"IoT Simulation by Fog Computing and Edge Computing using Open-source Tools"*.
- Prof. P. Niranjana, received a Grant from AICTE-ATAL (online) of Rs. 0.93 lakhs for conduction of FDP on *"Computer Science & Biology"*.

2019-20

- Prof. V. Shankar received a Grant of Rs.4.55 lakhs from AICTE for conduction of FDP on "*Big data Analytics*".
- Mr. B. Hanmanthu and B. Raghuram received a Grant of Rs.16.0 lakhs from DST for conduction of FDP and Seminar on "*Advances in Internet of Things*".
- Mr. B. Hanmanthu and B. Raghuram received a Grant of Rs.7.0 lakhs from DST for conduction of FDP and Seminar on "*Emerging trends in Artificial Intelligence*".
- Mr. B. Srinivas, Assistant Professor received a Grant of Rs.9.0 lakhs from DST for conduction of FDP on "*Machine Learning in Speech Processing*".

2018-19

- Dr. P. Niranjana, Professor received AICTE Grant of Rs. 4.5 lakhs for conduction of FDP on "Big data analytics using R-Tool"

2017-18

- UG-Programme Reaccredited by National Board of Accreditation for 3-years, **F.No.11-76-2010-NBA Dt. 29.3.2018.**
- Established Virtual Computing Laboratory with 90 computer systems (Rs.65-lakhs).

2016-17

- UG-Programme accreditation extended for one year by National Board of Accreditation **F.No.11-76/2010/NBA, Dt. 8th July, 2016.**

2015-16

- B.Tech intake increased from 120 to 180.

2014-15

- UG-Programme Reaccredited by National Board of Accreditation. F.No.11-76/2010/NBA, Dt.9th October,2014.
- Department has signed MoU with Oracle Academy, Hyderabad.

2013-14

- Established Research and Data Engineering Laboratory with 45 computer systems (Rs. 32 lakhs).
- Received best student award in state wide TCS-100 academic interface program

2012-13

- Department is recognized as “Centre of Excellence for Infosys Campus Connect Program” by Infosys Limited.

2011-12

- M.Tech.(Software Engineering) intake increased from 25 to 36.
- Received best student award in state wide TCS-100 academic interface program.

2009-10

- Recognition by the Oracle Corporation as “Oracle Partner” for Oracle Workforce development program.

2008-09

- UG-Programme accredited by National Board of Accreditation for 3-years, **F.No. NBA/ACCR-15/2001 Dt. 19th July,2008.**

2005-06

- Department recognized as Research Center by Kakatiya University.
- PG -Programme M.Tech.(Software Engineering) intake increased 18 to 25.
- Department received AICTE Grant for RPS “CAT Tools & SOC design”.

2004-05

- B.Tech intake increased from 60 to 120.
- Department started PG (M.Tech.) in Software Engineering with an intake of 18.

2003-04

- UG-Programme accredited for very first time by National Board of Accreditation for 3-years, **F.No. NBA/ACCR-190/2003, Dt. 20/05/2003.**

1994-95

- Department started with B.Tech. programme in Computer Science & Engineering with an intake of 60.

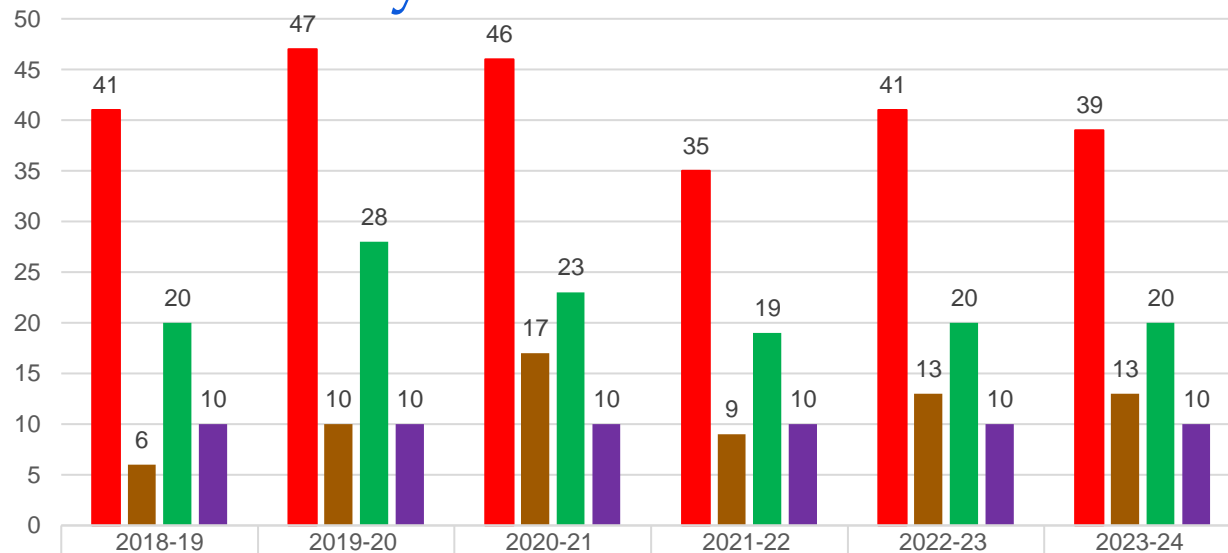
Department of Computer Science & Engineering

Head of the Department:- Prof. P. Niranjana

Academic Coordinator:- Dr. S. Venkatramulu

	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
No. of faculty	41	47	46	35	41	39
No. of faculty with Ph.D.	06	10	17	09	13	13
No. of faculty pursuing Ph.D.	25	28	23	19	20	20
No. of technical & supporting staff	10	10	10	10	10	10

Faculty Details



■ No. of faculty:	41	47	46	35	41	39
■ No. of faculty with PhD:	6	10	17	9	13	13
■ No. of faculty pursuing PhD:	20	28	23	19	20	20
■ No. of technical & supporting staff:	10	10	10	10	10	10

■ No. of faculty:
 ■ No. of faculty with PhD:
 ■ No. of faculty pursuing PhD:
 ■ No. of technical & supporting staff:

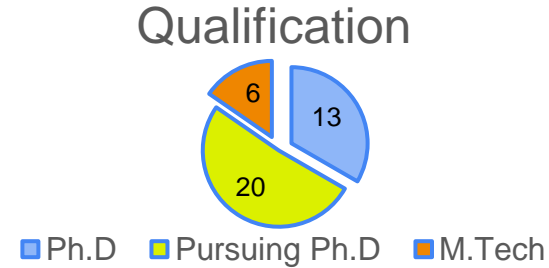
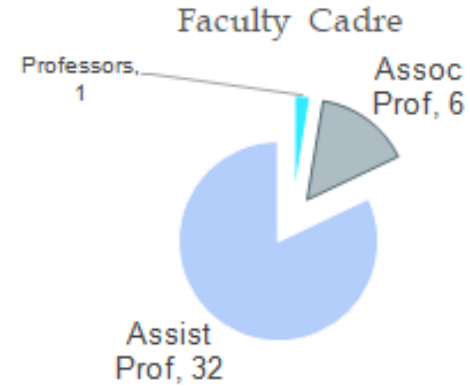
Faculty Strength

Faculty Cadre

S.No.	Designation	Count
1	Professors	01
2	Associate Professors	06
3	Assistant Professors	32
Total		39

Qualifications

Ph.D.	Pursuing Ph.D.	M.Tech/M.E
13	20	06



Teaching Faculty

S.No.	Name	Qualification	Designation	Experience (In Years) (* Industry Experience)
1	Dr.P.Niranjan	M. Tech, Ph.D.	Professor	28
2	Sri.S.Nagaraju	M. Tech, (Ph.D.)	Associate Professor	22+3*
3	Dr.C.Srinivas	M. Tech, Ph.D.	Associate Professor	22+3*
4	Dr.S.Venkatramulu	M. Tech, Ph.D.	Associate Professor	24
5	Dr.V.Chandra Shekhar Rao	M. Tech, Ph.D.	Associate Professor	25

				
Dr.P.Niranjan	S.Nagaraju	Dr.C.Srinivas	Dr.S.Venkatramulu	Dr.V.Chandra Shekhar Rao

Teaching Faculty

S.No.	Name	Qualification	Designation	Experience (In Years) (* Industry Experience)
6	Dr. B. Raghu Ram	M. Tech, Ph.D.	Associate Professor	16
7	Dr. P.Vijay Kumar	M.Tech, Ph.D.	Associate Professor	11+4*
8	Sri. MSB Pridhvi Raj	M. Tech, (Ph.D.)	Assistant Professor	17
9	Sri.G.Sridhar	M. Tech, (Ph.D.)	Assistant Professor	18
10	Dr.K.Vinay Kumar	M. Tech, Ph.D.	Assistant Professor	14



**Dr.B.Raghu
Ram**

**Dr. P.Vijay
Kumar**

**Sri. MSB Pridhvi
Raj**

Sri.G.Sridhar

Dr.K.Vinay Kumar

Teaching Faculty

S.No.	Name	Qualification	Designation	Experience (In Years) (* Industry Experience)
11	Smt. M.Preethi	M. Tech, (Ph.D.)	Assistant Professor	14
12	Sri. Md.Sharfuiddin Waseem	M. Tech, (Ph.D.)	Assistant Professor	14
13	Smt.P.Rajitha	M. Tech	Assistant Professor	12
14	Sri. B. Raju	M. Tech, (Ph.D.)	Assistant Professor	14
15	Dr. N.Gayatri	M. Tech, Ph.D.	Assistant Professor	10



M.Preethi

**Md.Sharfuiddin
Waseem**

P.Rajitha

B .Raju

Dr. N.Gayatri

Teaching Faculty

S.No.	Name	Qualification	Designation	Experience (In Years) (* Industry Experience)
16	Sri.N.C.Santosh Kumar	M. Tech, (Ph.D.)	Assistant Professor	16
17	Sri.B.Sridhara Murthy	M. Tech, (Ph.D.)	Assistant Professor	23
18	Sri. P.Srinivas	M. Tech, (Ph.D.)	Assistant Professor	23
19	Dr. Syed Abdul Moeed	M. Tech, Ph.D.	Assistant Professor	16
20	Dr. P.Kumaraswamy	M. Tech, Ph.D.	Assistant Professor	18



**N.C.Santosh
Kumar**

B.Sridhara Murthy

P.Srinivas

**Dr. Syed Abdul
Moeed**

**Dr.
P.Kumaraswamy**

Teaching Faculty

S.No.	Name	Qualification	Designation	Experience (In Years) (* Industry Experience)
21	Dr. M.Sujatha	M. Tech, Ph.D.	Assistant Professor	20
22	Smt.S.Swapna	M. Tech, (Ph.D.)	Assistant Professor	15
23	Smt. V.Gouthami	M. Tech, (Ph.D.)	Assistant Professor	16
24	Ms. G.Ashmitha	M. Tech, (Ph.D.)	Assistant Professor	06
25	Sri D.Naveen Kumar	M.Tech, (Ph.D.)	Assistant Professor	14



Dr. M.Sujatha






S.Swapna

V.Gouthami

G.Ashmitha

D.Naveen Kumar

Teaching Faculty

S.No.	Name	Qualification	Designation	Experience (In Years) (* Industry Experience)
26	Sri. R.Rajesh	M.Tech, (Ph.D.)	Assistant Professor	07
27	Smt. N. Deepika	M.Tech, (Ph.D.)	Assistant Professor	14
28	Dr. L. Tarasvi	M.Tech, Ph.D.	Assistant Professor	14
29	Sri. P. Prakash	M.Tech	Assistant Professor	03
30	Smt. P.Manasaraj	M.Tech	Assistant Professor	06
    				
R.Rajesh		N. Deepika		Dr. L. Tarasvi
		P. Prakash		P.Manasaraj

Teaching Faculty

S.No.	Name	Qualification	Designation	Experience (In Years) (* Industry Experience)
31	Smt.R.Radhika	M.Tech., (Ph.D.)	Assistant Professor	13
32	Sri. Shaik Munawar	M.Tech., (Ph.D.)	Assistant Professor	08
33	Smt. T. Parameshwari	M.Tech	Assistant Professor	06
34	Sri T. Ranjeeth Kumar	M.Tech., (Ph.D.)	Assistant Professor	16
35	Ms. E. Manisha	M.Tech	Assistant Professor	03



R.Radhika

Shaik Munawar

T. Parameshwari

T. Ranjeeth Kumar

E. Manisha

Teaching Faculty

S.No.	Name	Qualification	Designation	Experience (In Years)(* Industry Experience)
36	Sri. R. Kamalakar	M.Tech., (Ph.D.)	Assistant Professor	09
37	Smt. B. Vani	M.Tech.(Ph.D)	Assistant Professor	06
38	Sri. B. Dilip Reddy	M.Tech	Assistant Professor	02
39	Smt. P. Slokasree	M.Tech(Ph.D)	Assistant Professor	02



R.Kamalakar

B. Vani

B.Dilip Reddy

Technical Staff

S.No	Name	Qualification	Designation	Experience (In Years)
1	G. Rama Devi	M.Tech.	Computer Operator Cum Technician	26
2	B. Suresh	MCA	Programmer	19
3	P. Sreenivasa Rao	MCA	Programmer	24
4	P. Murali	PDCA	Computer Operator Cum Technician	25
5	V. Jaya Kumar	MCA	Programmer	18
6	T. Kiran	MCA	Operator	17
7	M. Divya	MCA	Programmer	07
8	D. Srilatha	MCA	Programmer	15

Supporting Staff

S.No.	Name	Qualification	Designation	Experience (In Years)
1	V. Uma	B.Com.	Junior Assistant	16
2	T. Yellahiah	SSC	Attendant	33

Department of Computer Science & Engineering

Research & Education Centre - Cloud Computing



S. No.	Laboratory Name	Block No./ Room No.	Covered area in Sq.Ft.	Capacity (Total Number of Systems)	Year of Established	Cost (Rs)
1	VIRTUAL COMPUTING LABORATORY	Block-V 301	2142	88	2017	36,30,582/-

PG - Research Lab

S. No.	Laboratory Name	Block No. / Room No.	Covered area in Sq.Ft.	(Total Number of Systems)	Year of Established	Cost (Rs)
1	DATA ENGINEERING & RESEARCH LABORATORY	Block-V 305	1420	42	2012	22,38,923/-



List of Laboratories and Equipment Cost

S. No.	Laboratory Name	Block No./ Room No.	Covered area in Sq.Ft.	Capacity (Total Number of Systems)	Year of Established	Cost (Rs)
1	SOFTWARE ENGINEERING LABORATORY	Block-V 205	1422	39	2011	20,81,913/-
2	WEB TECHNOLOGIES LABORATORY	Block-V 201	2141	73	2011	18,30,300/-
3	IBM LABORATORY	Block-II 213	1619	64	1999	29,06,592/-
4	GRAPHICS LABORATORY	Block-II 217/A	565	36	1999	14,30,394/-
5	ADVANCED SOFTWARE LABORATORY	Block-II 217/B	530	26	2017	7,39,444/-
6	GUI LABORATORY	Block-II 214	505	36	2019	6,26,989/-
7	DATA ENGINEERING & RESEARCH LABORATORY	Block-V 305	1420	42	2012	22,38,923/-
8	VIRTUAL COMPUTING LABORATORY	Block-V 301	2142	88	2017	36,30,582/-
9	PROGRAMMING SKILL DEVELOPMENT LABORATORY	Block-IV 201	1920	75	2019	39,29,401/-
10	COMPUTER CENTER (CORE LABORATORY)	Block-IV 202	1728	72	2003	17,01,400/-
11	SOFTWARE DEVELOPMENT LABORATORY	Block-IV 212	694	36	2010	8,84,170/-
	Total amount					2,20,00,108/-

S. No.	Name of the Software	Validity	Name of the supplier/ Licensed Software/ Open Source Software	Cost (Rs)
1.	Microsoft Windows- 10	1 year	Planet Solutions / Licensed software	5,30,000/-
2.	TURNITIN	1 year	Licensed Software	1,86,723/-
3.	Oracle 10G	Open Software through TASK		
4.	Turbo C	Open Source Software		
5.	apache-tomcat-10			
6.	Java 1.8			
7.	Dev-Cpp_6.3			
8.	Anaconda3-2021.05- Wind x86_64			
9.	WEKA Tool 3.7			
10.	Pentaho data integration 9.3			
11.	Pentaho BI Server 4.8			
12.	NetBeans 8.2			
13.	Python 3.11			
14.	Android studio			

Department of Computer Science & Engineering

Criterion 1 - Curricular Aspects

Curricula is developed and revised on regular basis, based on inputs from the following:

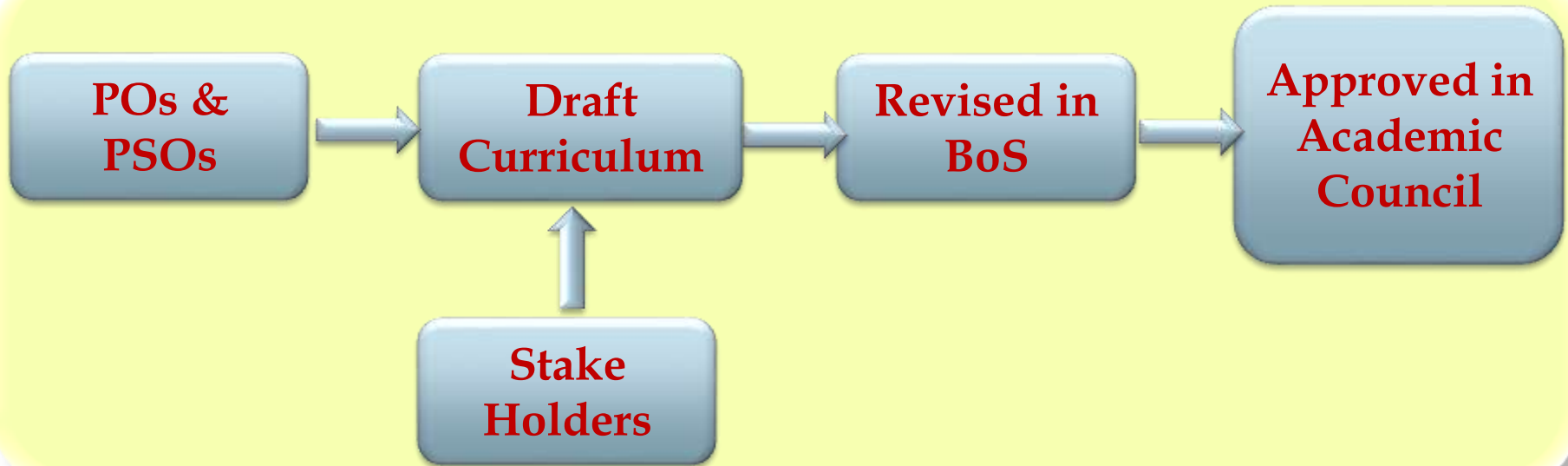
1. Feedback from stakeholders - to meet local requirements
2. Inputs from industry experts - to meet industry & global developmental needs
3. Suggestions from academicians of reputed institutions - to meet regional & global needs

Components in Curriculum:

- Science Component
- Humanities & Social Science
- Professional Core
- Breadth Component
- Electives - Professional & Open electives
- Internship
- Mandatory & Audit courses
- Project work & Seminar

PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESS

Process for designing the program curriculum



B.Tech. Programme - Curriculum

Semester	Number of Courses / Number of Credits (Course Category wise)									B.Tech (Honours/Minor) Programme
	BSC	ESC	HSMC	PCC	OE	PE	PROJ	MC	TOTAL	
I	3/9	5/10	1/3	-	-	-	-	2/0	11/22	Additional 20 credits through 8 courses out of the list of courses prescribed under Honours/Minor curricula
II	3/9	4/12	-	-	-	-	-	2/0	9/21	
III	2/7	1/3	1/1	5/12	-	-	-	1/0	10/23	
IV	-	-	1/1	5/12	3/8	-	-	1/0	10/21	
V	-	-	1/1	7/16	-	1/3	1/1	-	10/21	
VI	-	-		6/12	1/3	1/3	1/1	1/0	10/19	
VII	-	-	1/3	3/5	-	2/6	1/3	1/0	8/17	
VIII	-	-	-	-	1/3	2/6	1/7	-	4/16	
Total	8/25	10/25	5/9	26/57	5/14	6/18	4/12	8/0	72/160	(71+8) / (160+20)
%										
Weightage of Course Category	15.652 % (25/160)	15.652 % (25/160)	5.625 % (9/160)	35. 625 % (57/160)	8.75% (14/160)	11.25 % (18/160)	7.5 % (12/160)	0 %	100 % (160/160)	-

Teaching Learning Process

Assesses the learning levels of the students, after admission and organizes special programs for advanced learners and slow learners

For Advanced Learners

Course Research Paper
Presentations

Course Patent
Presentations

Course Project &
Presentations

For Slow Learners

Class
Review
Meetings

Course
Review
Meetings

Make Up
Classes

Remedial
Classes

Department of Computer Science & Engineering

Criterion 1 - Curricular Aspects

Curricula Summary: (for period 2018-19 to 2022-23)

	2018-19	2019-20	2020-21		2021-22	2022-23
			UG	PG		
No. of courses offered :	72	72	72	41	72	72
New courses introduced :	04	14	26	41	18	04
Value added courses :	10	10	10	07	10	10

Department of Computer Science & Engineering

Criterion 2 - Teaching-learning and Evaluation

Teaching-Learning Process:

- Class work as per Almanac
- Sharing Outcome Based Lecture Schedule (OBLS)
- Prior sharing of course material with outcomes - CDTs, SLTs
- Participative Learning through special Assignments in the form of Course Research Paper & Course Patent Paper
- Peer learning through Programme based Assignments
- Continuous internal assessment through Minor exams, Mid Semester exams, Assignments & Special Assignments
- Flip-classes through Tutorials followed as per tutorial matrix
- Course committee meetings

Department of Computer Science & Engineering

Criterion 2 - Teaching-learning and Evaluation

Programmes conducted to cater to differential learning needs of the students:

For Slow learners:

- Remedial Classes, Tutorials, Class Discussion Materials, Question Bank

For Active learners:

- Course Projects
- Course Patents and Course Research Papers - One for each course
- Project to paper publications - 18
- MOOCs certifications - 396
- Minor degree - CSE students in other dept.(02), Other dept Students in CSE(07)
- Participation in Hackathons - 12

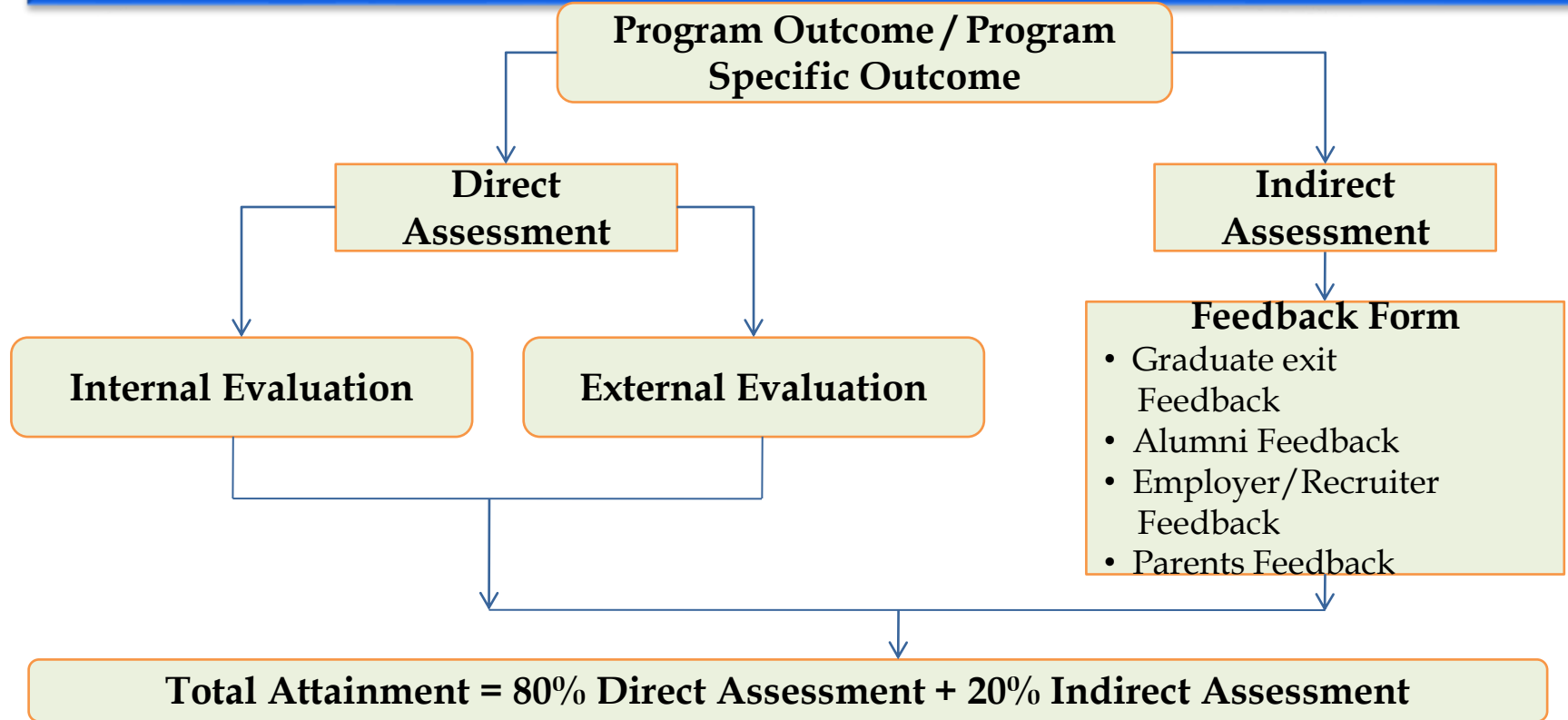
Department of Computer Science & Engineering

Criterion 2 - Teaching-learning and Evaluation

- **Effective Mentor-Mentee (Counselor-Counselee) System:**
 - **Counsel the students every week during Meet Your Counselor (MYC) slot**
 - **The faculty member who acts as counsellor maintains a Counseling record book for each counselee in which personal details of the students including their address, contact numbers, overall academic performance and progress is regularly updated.**
 - **Monitor the attendance and marks in College Management Software(CMS), counsel, guide, and motivate the students in all academic matters.**

Criterion 2 - Teaching-learning and Evaluation
Direct, Indirect and Overall Attainment Calculation Procedure

Assessment of Program Outcomes



Department of Computer Science & Engineering

Calculation Methodology for Attainment Levels

DIRECT ATTAINMENT-STUDENTS PERFORMANCE

CALCULATION METHODOLOGY FOR ATTAINMENT LEVELS

1. List out the internal and external marks of all the students
2. Calculate the average of the total students marks.
3. Identify the threshold value (Th=50% of the Maximum Marks)
4. List out the number of students who secured greater than the threshold value (A)
5. Total No. of Students (B)

Percentage of students secured greater than threshold is calculated by C:

$$C = [(A/B) \times 100] \%$$

Department of Computer Science & Engineering

DIRECT ATTAINMENT-STUDENTS PERFORMANCE

Based on above value (C) the attainments are obtained as below:

- **Attainment Level 0:** less than 60% students scoring less than threshold marks or set attainment level in the final examination.
- **Attainment Level 1:** 60% students scoring more than threshold marks or set attainment level in the final examination.
- **Attainment Level 2:** 70% students scoring more than threshold marks or set attainment level in the final examination.
- **Attainment Level 3:** 80% students scoring more than threshold marks or set attainment level in the final examination

Department of Computer Science & Engineering

Indirect Methods

S. No.	Indirect Assessment	Method Description
1.	Alumni Feedback	Collect the data about program satisfaction and college from the alumni students.
2.	Exit Feedback	Collect the data about program satisfaction and college from the final year students.
3.	Parent Feedback	Collect the data about program satisfaction and college from parents.
4.	Employer / Recruiter Feedback	Collect the data about the graduate skills, capabilities and opportunities.

Consolidated Attainments for B.Tech. CSE 2019-23 Batch

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Target Attainments	1.72	1.84	1.82	1.68	1.51	1.20	1.30	1.36	1.32	1.12	1.24	1.42	1.85	1.64	1.89
Direct Attainments	1.66	1.76	1.78	1.61	1.46	1.14	1.26	1.32	1.27	1.08	1.29	1.36	1.78	1.62	1.80
Indirect Attainment	1.55	1.40	1.61	1.40	1.30	1.22	1.50	1.68	1.65	1.35	1.20	1.50	1.60	1.40	1.70
80% of Direct Attainment	1.32	1.41	1.42	1.29	1.17	0.91	1.01	1.06	1.02	0.86	1.04	1.09	1.42	1.29	1.44
20% of Indirect Attainment	0.31	0.28	0.32	0.28	0.26	0.24	0.30	0.34	0.33	0.27	0.24	0.30	0.32	0.28	0.34
Scored Attainments	1.63	1.69	1.74	1.57	1.43	1.15	1.31	1.39	1.35	1.13	1.28	1.39	1.74	1.57	1.78

Consolidated Attainments for B.Tech. CSE 2018-22 Batch

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Target Attainments	1.73	1.91	1.91	1.67	1.61	1.22	1.31	1.38	1.27	1.11	1.23	1.46	1.86	1.61	1.90
Direct Attainments	1.60	1.74	1.70	1.60	1.43	1.13	1.27	1.30	1.26	1.07	1.27	1.33	1.76	1.56	1.77
Indirect Attainment	1.36	1.23	1.49	1.01	0.89	0.90	0.82	1.29	1.36	1.03	0.91	0.98	1.37	1.15	1.43
80% of Direct Attainment	1.28	1.39	1.36	1.28	1.14	0.90	1.02	1.04	1.01	0.85	1.02	1.06	1.41	1.25	1.41
20% of Indirect Attainment	0.27	0.25	0.30	0.20	0.18	0.18	0.16	0.26	0.27	0.21	0.18	0.20	0.27	0.23	0.29
Scored Attainments	1.55	1.64	1.66	1.48	1.32	1.08	1.18	1.30	1.28	1.06	1.20	1.26	1.68	1.48	1.70

Consolidated Attainments for B.Tech. CSE 2017-21 Batch

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Target Attainments	2.06	2.10	2.16	2.02	1.93	1.63	1.49	1.42	1.71	1.64	1.81	1.63	2.15	2.04	2.11
Direct Attainments	1.29	1.27	1.32	1.25	1.19	0.97	0.91	0.89	1.09	1.00	1.16	0.96	1.21	1.21	1.29
Indirect Attainment	2.61	2.61	2.82	2.30	2.40	1.36	1.39	1.32	1.27	1.38	2.01	1.74	2.73	2.49	2.68
80% of Direct Attainment	1.03	1.01	1.05	1.00	0.95	0.77	0.73	0.71	0.87	0.80	0.93	0.77	0.97	0.97	1.03
20% of Indirect Attainment	0.52	0.52	0.56	0.46	0.48	0.27	0.28	0.26	0.25	0.28	0.40	0.35	0.55	0.50	0.54
Scored Attainments	1.55	1.53	1.61	1.46	1.43	1.04	1.01	0.97	1.12	1.08	1.33	1.12	1.52	1.47	1.57

Consolidated Attainments for B.Tech. CSE 2016-20 Batch

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Target Attainments	2.06	2.10	2.16	2.02	1.93	1.63	1.49	1.42	1.71	1.64	1.81	1.63	2.15	2.04	2.11
Direct Attainments	1.28	1.26	1.30	1.23	1.20	0.92	0.88	0.91	1.08	1.00	1.17	0.97	1.21	1.19	1.29
Indirect Attainment	2.57	2.5	2.72	2.5	2.39	1.34	1.3	1.28	1.22	1.32	2.22	1.66	2.65	2.52	2.47
80% of Direct Attainment	1.03	1.01	1.04	0.99	0.96	0.74	0.70	0.73	0.86	0.80	0.94	0.77	0.97	0.95	1.03
20% of Indirect Attainment	0.514	0.5	0.544	0.5	0.478	0.268	0.26	0.256	0.244	0.264	0.444	0.332	0.53	0.504	0.494
Scored Attainments	1.539	1.506	1.587	1.485	1.438	1.005	0.964	0.987	1.106	1.06	1.379	1.105	1.501	1.456	1.522

Consolidated Attainments for B.Tech. CSE 2015-19 Batch

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Target Attainments	2.06	2.10	2.16	2.02	1.93	1.63	1.49	1.42	1.71	1.64	1.81	1.63	2.15	2.04	2.11
Direct Attainments	1.24	1.22	1.26	1.21	1.17	0.94	0.90	0.88	1.06	0.98	1.16	0.95	1.18	1.17	1.27
Indirect Attainment	2.55	2.3	2.4	2.3	2.2	1.23	1.2	1.12	1.11	1.12	2.1	1.3	2.3	2.31	2.32
80% of Direct Attainment	0.99	0.98	1.01	0.97	0.94	0.75	0.72	0.71	0.85	0.78	0.93	0.76	0.94	0.94	1.01
20% of Indirect Attainment	0.51	0.46	0.48	0.46	0.44	0.246	0.24	0.224	0.222	0.224	0.42	0.26	0.46	0.462	0.464
Scored Attainments	1.501	1.437	1.489	1.425	1.379	0.997	0.958	0.929	1.072	1.005	1.347	1.02	1.404	1.4	1.477

Department of Computer Science & Engineering

Criterion 2 - Teaching-learning and Evaluation

Pass percentage of students during last 5 years

Department of Computer Science & Engineering

Pass Percentage of Students

B. Tech. (Computer Science & Engineering)

S. No.	Academic Year	Batch	No. of Students appeared	No. of Students passed	Pass Percentage (%)
1.	2022-23	2019-23	198	197	99.49
2.	2021-22	2018-22	200	199	99
3.	2020-21	2017-21	208	207	99.04
4.	2019-20	2016-20	205	204	99.51
5.	2018-19	2015-19	209	207	99.04

M. Tech. (Software Engineering)

S. No.	Academic Year	Batch	No. of Students appeared	No. of Students passed	Pass Percentage (%)
1.	2022-23	2019-23	5	4	80
2.	2021-22	2018-22	7	5	71.43
3.	2020-21	2017-21	22	20	90.91
4.	2019-20	2016-20	25	22	88
5.	2018-19	2015-19	29	24	82.76

Department of Computer Science & Engineering

Criterion 3 - Research, Innovations and Extension

	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
	Research Facilities in the Department					
Research supervisors:	02	02	02	02	02	02
Research scholars:	03	01	00	00	00	04
Faculty obtained PhD:	00	02	05	00	01	05

Research Grants/Funds

<p>2023-2024</p>	<p>Details of the Idea proposal approved during 7th PMAC Meeting of MSME Innovative held on 15.02.2024 & announced by Hon'ble Minister of MSME on the occasion of CPSE Conclave at Vigyan Bhawan, New Delhi on 29.02.2024.</p> <p>Event Name: MSME IDEA HACKATHON 3.0</p> <p>Idea Reference No: IDEATS012849</p> <p>Host Institute Name: Kakatiya Institute of Technology and Science, Warangal</p> <p>Title of the Idea: Helmet based green signal activation at traffic signals</p> <p>Incubatee Name: Bathini Sriharshitha</p> <p>Mentor Name: D. Naveen Kumar</p> <p>Grant Proposal Amount: Rs 12,50,000</p> <p>Idea Proposal approved date: 15.2.2024</p>
<p>2020-2021</p>	<p>Faculty Development Programme AICTE Training & Learning (ATAL)Block chain Technology, Dr. P. Niranjana, Professor Rs. 93,000 Sanctioned One Week (25th – 29th Jan 2021)</p>

2019-2020	Faculty Development Program AICTE Domain specific IOT & Illustration of IOT's using Case studies, Dr. V.Shankar, Professor & Head, Ref no: 34-55/18/RIFD/FDP/P-1/2017-18), Rs. 4,55,000 Sanctioned Two week (9th Jan- 21st Jan 2020)
2019-2020	<p>ICPS NATIONAL LEVEL TRAINING PROGRAMMEE OF DST, GOVT. OF INDIA, Emerging Trends in A.I. B.Hanmanthu, Asst. Professor,(26636DST/ICPS/SCST/2019/123), Rs. 7,00,000.00 Sanctioned for 3 days.</p> <p>ICPS NATIONAL LEVEL TRAINING PROGRAMMEE OF DST, GOVT. OF INDIA, Advances in Internet of Technologies, B.Hanmanthu, Asst. Professor,(26344 DST/ICPS/SCST/2019/524) Rs. 9,00,000.00 Sanctioned for Two weeks</p> <p>Young Scientist Scheme, DST-SEED, Automation of farming tools for smart farming using android Application (A gaming approach), Md Sharfuddin (PI) File No: SP/YO/2019/974(G)/ 17/02/2020, 40,43,336 Sanctioned</p>
2018-2019	<p>Faculty Development Program AICTE- ISTE, Big data using R-Tools, Dr. P. Niranjan, Professor, Rs. 3,00,000.00 Sanctioned for One Week.</p> <p>ICPS NATIONAL LEVEL TRAINING PROGRAMMEE OF DST, DST (ICPS DIVISION) Sponsored Machine Learning in Speech Processing, B. Srinivas, Assistant Professor, (File no: DST/ICPS/SCST/2019/406), Rs. 99,00,000 Sanctioned Two Week.</p>

Department of Computer Science & Engineering

Criterion 3 - Research, Innovations and Extension

Anti-plagiarism policy:

https://www.kitsw.ac.in/research/Policy_Updated_Version%20-8_Final%20Copy.pdf

	2018-19	2019-20	2020-21	2021-22	2022-23
No. of Seminar Reports:	189	212	195	199	195
Mini Project Reports:	189	212	195	199	195
Major Project Reports:	204	204	197	197	198
M.Tech Thesis:	24	26	22	07	05
Student Publications	00	00	02	05	04

Faculty with Doctoral Degree

S.No	Name	Year	University	Area of Research
1	Dr.P.Niranjan	2013	Kakatiya University, Warangal.	Software Engineering
2	Dr. C. Srinivas	2020	KU, Warangal	Software Engineering
3	Dr. S. Venkatramulu	2020	KU, Warangal	Network Security
4	Dr. V. Chandra Shekar Rao	2019	JNTU,Hyderabad	Data Mining
5	Dr. B. Raghu Ram	2020	JNTU, Hyderabad	Distributed Computing
6	Dr. P. Vijay Kumar	2020	JNTU, Hyderabad	Cloud Computing
7	Dr. K.Vinay Kumar	2020	Karunya University, Coimbatore	Stream Mining

Faculty with Doctoral Degree



S.No.	Name	Year	University	Area of Research
8	Dr. N.Gayatri	2014	NIT-Trichy	Data Mining & Software Metrics
9	Dr. Syed Abdul Moeed	2021	Mewar University, Chittorgarh	Software Engineering
10	Dr. P. Kumara Swamy	2020	JNTU, Hyderabad	Cryptography, Network Security
11	Dr. M. Sujatha	2017	Andhra University	Data Mining
12	Dr. L. Tarasvi	2023	KL University	Cloud Computing

Industry Institution Interaction Cell

Faculty trained by Industry

Company Name	Company Sector	Incorporation Status	Faculty First Name	Start date	End date
Google Cloud Developers	IT	Private	Dr. P. Vijay, S.Swapna, Ashmitha, Shaik Munawar	14-07-2023	22-08-2023
Wipro Private Ltd. Bangalore	IT	Private	Dr. P. Kumara Swamy	17-02-2023	20-02-2023
Salesforce.com	IT	Private	Dr.S. Venkatramulu	27-07-2020	31-07-2020
Salesforce.com	IT	Private	P. Srinivas	27-07-2020	31-07-2020
Wipro Private Ltd. Bangalore	IT	Private	P Sreenivas	16-03-2021	01-04-2021
Oracle Certication	IT	Private	Dr. K. Vinay Kumar	16-03-2020	01-04-2020

Center of Excellence

 <p>The logo for the Cisco Center of Excellence at KITSW. It features the Cisco logo (a stylized bridge) above the word "CISCO" in blue, and "Center of Excellence, KITSW" in a smaller blue font below it.</p>	<p>CISCO: At the institute, CISCO CoE includes CISCO Networking Academy which provides training, internship, placement opportunities to the students</p>
 <p>The logo for Automation Anywhere. It features a stylized orange "A" on the left, followed by the text "AUTOMATION ANYWHERE" in black, and the tagline "Go be great." in a smaller orange font below it.</p>	<p>Automation Anywhere University has been an incredibly stabilizing tool for empowering our educators, managers, employees, and students. It has significantly helped accelerate RPA adoption, reduced costs, and maximized our technology investment.</p>

Department of Computer Science & Engineering

Criterion 3 - Research, Innovations and Extension

No. of MoUs: 08

No. of Activities Conducted: 15

Avg. Citation Index: 19

Avg. H-index: 38

Faculty Achievements in 5 years			
Year	SCI/WoS Journals	SCOPUS Journals	Conference
2023-24	3	12	2
2022-23	11	11	9
2021-22	3	1	18
2020-21	1	8	8
2019-20	2	10	1
2018-19	0	1	3

Details of the Industrial Visits and MoU:

Academic Year	No. of Industrial Visits	Total No. of students benefited
2018-2019	Infosys, Hyderabad	65
	CUBUS, Hyderabad	60
2019-2020	Tech Mahindra and Cyient, Warangal	150
	Kore.AI, INC, Hyderabad	60
	Value momentum - Hyderabad	65
2020-2021	NIL	--
2021-2022	Value momentum - Hyderabad	
2022-2023	CTS, INCOIS, IKCON, Hyderabad	35
2023-2024	INCOIS	50

Major MoUs with the Company / Industry / Firm, etc.,	Major MoUs	
	From	To
NIT Warangal	27-01-2021	Till date
TCS	2017	Till date
CYIENT	2017	Till Date
Oracle	2018	Till Date
Sreeal Technologies	2017	Till Date
Robotic Process Automation Workshop	2018	Till Date
CISCO-Networking Academy	2019	Till Date
Wipro	2018	Till Date

MoUs signed
by
the Department:

ISO 9001:2015 | AICTE On-Campus Charging Station | NAAC 'A' Grade (CCEW-133) | ARII 2022: Best Best 201-360

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
Opp : Yemagattu Gutta, Hanamaparthi (Mandal), WARANGAL - 506 015, Telangana, INDIA.
కాకతీయ విద్యాగిరికి అంబ విజ్ఞాన సంస్థానం, వరంగల్ - 506 015 తెలంగాణ, భారత
కాకతీయ విద్యాగిరికి అంబ విజ్ఞాన సంస్థానం, వరంగల్ - 506 015 తెలంగాణ, భారత

KITSW
(An Autonomous Institute under Kakatiya University, Warangal)
Chartered by AICTE, New Delhi; Recognized by UGC under 2(F) & 12(B); Sponsored by DRISDA, Govt of Telangana

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MoUs SIGNED WITH INDUSTRY

 MoU w.e.f. 2009	 MoU w.e.f. 2009	
 MoU w.e.f. 2005	 MoU w.e.f. 2017	
 MoU w.e.f. 2016	 MoU w.e.f. 2018	
 MoU w.e.f. 2019	 MoU w.e.f. 2019	 MoU w.e.f. 2018

Department of Computer Science & Engineering

Criterion 4 - Infrastructure and Learning Resources

	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Physical Facilities:						
No. of Classrooms:	10	10	10	12	09	09
No. of Laboratories:	11	11	11	11	11	11
No. of Computers:	584	584	584	584	584	584
Department Library info:						
No. of textbooks:						
No. of project reports:	204	204	197	197	198	204
No. of newsletters:	2	2	2	2	2	2
No. of Magazines:	01	01	01	01	01	01

Infrastructure Facilities

The Department of Computer Science & Engineering has the following facilities

11

- Well Equipped Laboratories

01

- Department Library

16

- Staff Rooms Equipped with Internet Facility

11

- Lecture Halls with LED Projector

01

- Seminar Halls

01

- Meeting Room

Department Library

475

**Number of
Titles**

300

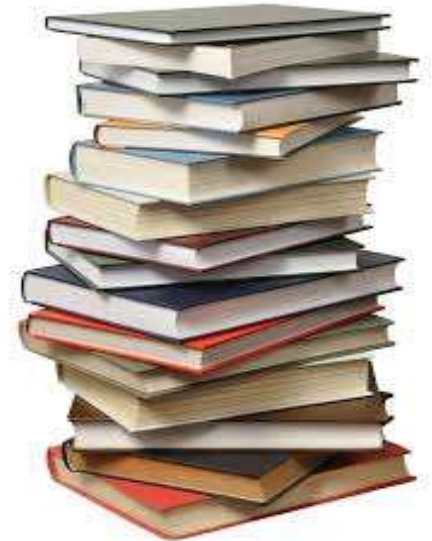
**Oracle
Manuals**

1600

**Student
Project
Reports**

Reprints

**Department
Faculty
Publications**



Department of Computer Science & Engineering

Criterion 5 - Student Support and Progression

Students Achievements in 5 years	
Year	Conference Proceedings (SCOPUS)
2023-24	1
2022-23	7
2021-22	5
2020-21	2
2019-20	1
2018-19	1

Placements & Higher Education		
Year	Placements	Higher Education
2023-24	50 (till date)	-
2022-23	198	20
2021-22	200	11
2020-21	208	15
2019-20	261	01
2018-19	178	04

Student Activities

ASSOCIATION AND TECHNICAL/PROFESSIONAL ACTIVITIES

ACTIVITY NAME	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
CSE Students ASSOCIATION	7	12	9	12	23	13
CSI	1	1	1	1	2	3
IEEE	-	-	1	3	2	1
ISTE	14	11	7	12	9	10

Achievements

- Ph.D. awarded to P. Tirupathi, titled “Internet of Things, Technologies and Protocols”, 2023, Kakatiya University under the supervision of Dr. P. Niranjan, Dept of CSE, KITSW.
- Details of the Idea proposal approved during 7th PMAC Meeting of MSME Innovative held on 15.02.2024 & announced by Hon'ble Minister of MSME on the occasion of CPSE Conclave at Vigyan Bhawan, New Delhi on 29.02.2024.

Event Name : MSME IDEA HACKATHON 3.0

Idea Reference No: IDEATS012849

Title of the Idea: Helmet based green signal activation at traffic signals

Incubatee Name: **Bathini Sriharshitha(B21CS032)**

Mentor Name: D. Naveen Kumar

Grant Proposal Amount: Rs 12,50,000

Department of Computer Science & Engineering

Criterion 5 - Student Support and Progression

Alumni Engagement

Alumni Interaction

- Kanakapalli Anurag, CEO, Garuna Technologies,
ceo@garuna.tech.com
- Mohan M, Sr.Technical Project Lead, Birlasoft Pvt Ltd.
Hyderabad, mohanm3@birlasoft.com
- Anupama Ganga, Designation- Consultant, Tata Consultancy
Services, Delivery Manager, Hyderabad, Email Id-
anupama.g@tcs.com
- A. Sahitya Raj, Co-Founder, Sreeal Technologies, Hyderabad,

Prominent Guests Visited

- Ajinkye Lohakathe, International Chief Technical Officer of Ditto Security, Mumbai Dt. 02.02.2024
- Professor Jayadev Gnani, International Majmah University, Saudi Arabia, Dt. 01.11.2023
- Prasad Chitta, Tata Consultancy Services, Decision Intelligence and MLOPs Practice Lead, Hyderabad, Dt. 12.10.2023
- Ajay & Devarpitha Talluri Sinha, Technical Personnel, MATLAB, India (Hyderabad Chapter) Dt.7.10.2023

Department of Computer Science and Engineering
Consolidated Budget Statement from FY 2018-19 to 2023-24

Items	Budget Proposed in FY 2023-24	Budget allotted in FY 2023-24	Actual Expenses in FY 2023-24 (Upto 31.01.24)	Budget Proposed in FY 2022-23	Budget Allotted in FY 2022-23	Actual Expenses in FY 2022-23	Budget Proposed in FY 2021-22	Budget Allotted in FY 2021-22	Actual Expenses in FY 2021-22
Laboratory Equipment	1,40,78,600	42,73,700	0	1,04,88,000	31,78,600	1,31,200	1,44,60,444	51,85,000	41,78,221
Software Purchase	1,88,500		1,86,723	1,68,500		11,27,872	1,73,500		20,60,994
Others	2,96,100		0	2,48,100		2,18,800	15,08,700		72,400
Laboratory Consumables	9005	12,22,500	0	8,805	12,74,500	750	1,71,400	13,02,500	0
Maintenance, Spares & Others	7,23,950		2,57,524	6,82,950		1,69,474	2,51,600		598924
Miscellaneous Expenses	65000		4,72,065	1,25,000		38,263	65,000		1,07,033
Travel (Conferences presentations by faculty including Registrations) & Training programs	6,50,000	7,05,000	0	5,75,000	4,75,000	76251	7,50,000	5,50,000	2,12,400
Total in Rupees	1,60,11,155	62,01,200	9,16,312	1,22,96,355	49,28,100	17,62,610	1,73,80,644	70,37,500	72,29,972

Department of Computer Science and Engineering
Consolidated Budget Statement from FY 2018-19 to 2023-24

Items	Budget Proposed in FY 2020-21	Budget allotted in FY 2020-21	Actual Expenses in FY 2020-21	Budget Proposed in FY 2019-20	Budget Allotted in FY 2019-20	Actual Expenses in FY 2019-20	Budget Proposed in FY 2018-19	Budget Allotted in FY 2018-19	Actual Expenses in FY 2018-19
Laboratory Equipment	1,53,18,144	49,66,000	-	59,20,000	44,20,600	19,88,600	51,36,300	20,00,000	4,79,260
Software Purchase	2,33,500		5,44,909	1,45,500		0	57,500		7,27,801
Others	7,30,600		-	5,60,600		0	21,300		17,730
Laboratory Consumables	33,900	3,00,000	-	15,390	6,94,850	6,500	16,500	5,00,000	2,500
Maintenance, Spares & Others	5,16,240	4,50,000	8,378	6,06,200		1,24,277	4,88,470		6,850
Miscellaneous Expenses	75,000		78,451	50,000		2,50,529	20,000		1,43,508
Travel (Conferences presentations by faculty including Registrations) & Training programs	6,00,000		-	5,35,000	4,50,000	2,48,824	1,00,000	50,000	21,547
Total in Rupees	1,75,07,244	57,16,000	6,31,738	78,32,690	55,65,450	26,18,730	58,40,070	25,50,000	13,99,196

Department of Computer Science & Engineering

Criterion 6 - Governance, Leadership and Management

No. of FDPs attended by the faculty year wise:

A.Y. →	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19	TOTAL
Faculty Attended Count	36	33	23	85	154	66	397

No. of faculty provided with funding FDPs: 09

Total amount received: Rs. 1,82,451/-

2022-23				
Dates (from-to) (DD-MM-YYYY)	Title of the conference/ workshops/ name of the professional body	Name of the teacher	Amount provided by the HEI	Purpose (Membershiop fee/travel and other expenses/Registration fee)
19-02-2023 to Continueing	Advanced Certification in Data Science & Artificial Intelligence	Dr. B. Raghuram	Rs. 76,251/-	Registration Fee

2021-22				
Dates (from-to) (DD-MM-YYYY)	Title of the conference/ workshops/ name of the professional body	Name of the teacher	Amount provided by the HEI	Purpose (Membershiop fee/travel and other expenses/Registration fee)
20-01-2022 to 10-05-2022	IIIT Delhi Certification program on Introduction to Programming (Python)	Dr. B. Raghuram, Dr. N. Gayathri	Rs. 1,06,200/-	Registration fee
	IIIT Delhi Certification program on Data Structures	P. Srinivas, V. Gouthami		
	IIIT Delhi Certification program on Computer Networks	Dr. S. Venkatramulu, Dr. C. Srinivas		
	IIIT Delhi Certification program on Machine Learning	G. Sridhar, Dr. M. Ranjeeth kumar		

NPTEL Certifications

Year	Faculty	Students
2023-24	29	151
2022-23	18	11
2021-22	01	14
2020-21	08	39
2019-20	09	53
2018-19	24	39
Total	89	307

Faculty Administrative Responsibilities Department/ Institute level

S.No	Name of Faculty	Department level	Institute Level
1	Dr.P.Niranjan	Chairmen, Board of Studies, CSE Head of the Department, CSE	Member, AAC
2	Sri.S.Nagaraju	Member, Board of Studies, CSE	Coordinator, BoT Center of Excellence
3	Dr.C.Srinivas	Member, Board of Studies, CSE	Coordinator, CSI Chapter
4	Dr.S.Venkatramulu	Member, Board of Studies, CSE	Academic Coordinator, CSED
5	Dr. V. ChandrasekarRao	Member, Board of Studies, CSE Coordinator, M.Tech. (SE)	—
6	Dr. B.Raghuram	Member, Board of Studies, CSE	Faculty in charge, IDC

Faculty Administrative Responsibilities Department / Institute level

S.No	Name of Faculty	Department level	Institute Level
7	Dr. P.Vijaykumar	Major Project Coordinator	Coordinator, IIC
8	Dr. K.Vinay Kumar	Major Project Coordinator	Faculty in charge, CNI
9	Dr. N.Gayathri	Member, Board of Studies, CSE	—
10	Dr. Syad Abdul Moeed	Department Library In charge	Member, Web Team
11	MSB. Prudhviraaj	Department T&P Coordinator	—
12	N.C. Santosh Kumar	Department Association in charge	—
13	Dr. M. Sujatha	Department R&D coordinator	—



Project Title: “Automation of farming tools for smart farming using Android Application (A Gaming Approach)”. File No: **SP/YO/2019/974(G)**. Farming is the backbone of the Indian Economy, where the major contribution is from the farming sector. Today, most Indian farmers are still using traditional methods for growing crops; hence, promoting automation tools that are cost-effective will help farmers cultivate more land, reducing investment costs and doubling their income. This project is aimed to create cost-effective automated tools for farmers. In this regard, this project aims to develop a semi-autonomous, low-cost KIT to control farming tractor and their tools.



KITS Warangal invents 'driverless automated tractor'

NS RAO
WARANGAL

Department of Computer Science, Engineering (CSE), Kakatiya Institute of Technology, Science Warangal (KITSW) invented a 'driverless automated tractor for farmers' according to KITSW principal Prof K Ashoka Reddy.

A fourth trial run was successfully completed on Friday, said the principal. On this occasion, former Rajya Sabha MP and KITSW governing body chairman V Lakshmikantha Rao said that SEED (Science for Equity Empowerment and Development) Division under DST has sanctioned a major research project titled "Automation of farming tools for smart farming using Android application (A Gaming Approach)" to the department of CSE. For this project the Principal Investigator Md. Sharfuddin



Waseem, Assistant Professor of CSE, co-investigator is Prof P Niranjan Reddy, Head of the Department of CSE and the mentor is associate professor S Narasimha Reddy, Head of the Department of CSE (Networks). An amount of Rs 40 lakh was sanctioned for the project. This funding project was developed by the KITS Warangal.

V Lakshmikantha Rao, KITSW treasurer P Narayana Reddy and Huanabad constituency MLA and KITSW additional secretary Vodithala Sateesh Kumar complimented the principal investigator of the project.

Department of Computer Science & Engineering

Criterion 7 - Values and Best Practices

Best Practices of the Department

- Regular student counseling process.
- Remedial teaching for slow learners.
- Pre-assessment of students by conducting placement examinations and mock interviews.
- Regular conduction of Class Review Committee (CRC) meetings.
- Frequent alumni interaction programme.
- Providing internship opportunities to students.
- Conduction of association activities to inculcate academic and management skills.
- Providing interaction between students and faculty using College Management System (CMS).
- Encouraging students to develop innovative projects to facilitate campus automation.
- Attainment of program specific course outcomes.
- Motivating students to nurture ideas and realize dreams by inculcating innovation, incubation, research and entrepreneurship culture in the campus.

Department of Computer Science & Engineering

SWOC Analysis

Strength of the Department:

- B.Tech(CSE) and M.Tech.(SE) Program is accredited by NBA and regularly renewing the status
- The department has been recognized as Research center by Kakatiya University
- Excellent and adequate infrastructure facility
- Imparting quality education with the help of dedicated faculty members
- More than 80% students are being recruited by MNC's
- Regular conduction of Remedial/Makeup classes for slow learners
- Using modern ICT tools for teaching learning process
- Wi-Fi enabled campus with 1GBPS connectivity
- Continuous effort to improve soft skills of student community
- Strong alumni support
- Emphasis on academic social responsibility through student clubs

Weaknesses of the Department:

- Lack of consultancy work
- Less Research Projects
- Remote location disadvantage for frequent industry interaction

Opportunities of the Department:

- Computer Science Engineering specialization offers ample opportunities to incubate student ideas.
- Conducting regular research activities for publications in peer reviewed journals
- Active co curricular and extracurricular activates for outreach
- Active alumni association for gathering awareness of outside world
- Autonomy to brining dynamic changes in curriculum that adapts to new technology

Challenges of the Department:

- Bridging the gap between industry and academia
- Attracting High CTC Companies
- Carrying out research and extension activates in field of computer science and engineering

Department of Computer Science & Engineering

SHORT TERM AND LONG TERM GOALS OF THE DEPARTMENT

- Improvement in campus placements and earn high CTC packages
- Improving quality of teaching learning
- Improving quality in research activities

LONG TERM GOAL OF THE DEPARTMENT

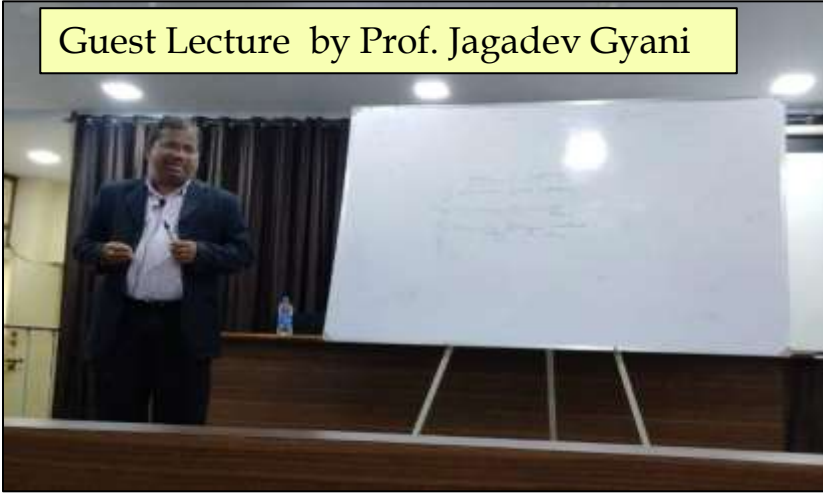
- To become Centre of Excellence in the field of computer science
- To provide consultancy services to industry

Career Opportunities for B.Tech (CSE) & M.Tech (SE):

- Most of the students of the department have been placed on campus and off campus every year in reputed software companies like Accenture, Genpact, TCS, Infosys, Google, Tech Mahindra, Verisk Analysis, E2-open, MindTree and TA Digital etc.
- The students also have opportunities M.S Courses in USA, UK, Australia, Canada in the field of computer science, AI, ML, Data Science, Data Analytics etc.

PHOTO GALLERY

Guest Lecture by Prof. Jagadev Gyani



After the training session there was certification program which was conducted by AAU on



CSE Alumni Mr. k. Anurag visited the dept.



Thank you