SELF ASSESSMENT REPORT (SAR) FORMAT UNDERGRADUATE ENGINEERING PROGRAMS (TIER-II)

Submitted by

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACHARYA INSTITUTE OF TECHNOLOGY

SOLEDEVANA HALLI, BANGALORE – 560107

Date: 11.3.2019

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Part A: Institutional Information

1	**Name and Address of the Institution**	:	Acharya Institute of Technology Acharya Dr. Sarvepalli Radhakrishnan Roac Achitnagar Post, Soladevanahalli, Bengaluru - 560107
2	**Name and address of the affiliating university**	:	Visvesvaraya Technological University Jnana Sangam, Macche Belagavi-590018
3	**Year of establishment**	:	2000
4	**Type of institution**	:	

University	
Deemed University	
Government Aided	
Autonomous	
Affiliated	✓

5	**Ownership Status**	:

Central Government	
State Government	
Government Aided	
Self - Financing	✓
Trust	
Society	
Section 25 Company	
Any Other (Please specify	

6. Other Academic Institutions of the Trust/Society/Company etc., if any

SL No	Name of the Institution(s)	Year of Establishment	Programs of Study	Location
1	Acharya Polytechnic	1991-92	Diploma in Engg.	Acharya Dr. Sarvepalli Radhakrishnan Road Soladevanahalli, Achitnagar Post, Bengaluru - 107
2	Acharya B M Reddy College of Pharmacy	1992-93	Pharmacy	
3	Smt. Nagarathnamma School of Nursing	2003 - 04	BSc. Nursing, M.Sc. Nursing	
4	Acharya College of Education	2004 - 05	Diploma in Elementary Education, B.Ed.	
5	Acharya Institute of Graduate Studies	2005 - 06	BA - JOURNALISM, MARKETING, BSc., MSc., BCA, BBM, B. Com, Com, MFA, MIB, BSc. - PCM, PMF, MA	
6	Acharya Pre University College	2005 -06	PCMB, PCMC, PCME, CEBA	
7	Acharya School of Management	2009 - 10	PGDM	
8	Acharya NRV School of Architecture	2009 -10	B. Arch	
9	Acharya School of Law	2014 -15	BA LLB, BBA LLB, LLB	
10	Acharya School of Design	2015 - 16	Bachelor of Visual Arts, Painting, Sculpture, Graphic Design, Product Design, Furniture Design, Interior Design	
11	Acharya Institute of Allied Health Sciences	2018 -19	BSc. Programs	

Table A.6

7. Details of all the programs being offered by the institution under consideration:

S. No	Program Name	Name of the Department	Year of Start	Intake	Increase in intake, if any	Year of increase	AICTE Approval	Accreditation Status*
1	BE	Aeronautical Engg.	2011-12	60	-	-	Approved	Eligible but not applied
2	BE	Automobile Engg.	2011-12	60	-	-	Approved	Eligible but not applied
3	BE	Biotechnology	2002-03	30	60	2018-19	Approved	Provisionally Accredited from 2018 to 2020
4	BE	Civil Engg.	2009-10	60	120	2014-15	Approved	Applying first time
5	BE	Computer Science & Engg.	2000-01	60	90 120	2001-02 2011-12	Approved	Accredited for 3 years from 2009-2012 Not accredited vide visit dated 25th to 27th October 2013
6	BE	Construction Technology & Management	2011-12	60	-	-	Approved	Eligible but not applied
7	BE	Electrical & Electronics Engg.	2004-05	60	120	2012-13	Approved	Not accredited vide visit dated 25th to 27th October 2013
8	BE	Electronics & Communication Engg.	2000-01	60	90 120	2001-02 2012-13	Approved	Accredited for 3 years from 2008-2011 Not accredited vide visit dated 25th to 27th October 2013
9	BE	Information Science & Engg.	2000-01	60	90 120	2001-02 2013-14	Approved	Accredited for 3 years from 2009-2012 Not accredited vide visit dated 25th to 27th October 2013
10	BE	Mechanical Engg.	2002-03	60	90 120	2009-10 2012-13	Approved	Accredited for 3 years from 2008-2011 Not accredited vide visit dated 25th to 27th October 2013
11	BE	Mechatronics Engg.	2009-10	60	-	-	Approved	Applying first time
12	BE	Manufacturing Science & Engg.	2013-14	60	-	-	Approved	Eligible but not applied
13	BE	Mining Engg.	2013-14	60	-	-	Approved	Eligible but not applied

14	Business Administration	MBA	2007-08	60	120 240	2011-12 2012-13	Approved	Eligible but not applied
15	Computer Applications	MCA	2007-08	60	120 240 120	2011-12 2012-13 2018-19	Approved	Applied and with drawn vide visit dated 7th to 9th 2008
16	M.Tech.	Biotechnology	2010-11	18	-	-	Approved	Eligible but not applied
17	M.Tech.	Computer Network & Engg.	2012-13	18	-	-	Approved	Eligible but not applied
18	M.Tech.	Computer Science & Engg.	2011-12	18	24	2012-13	Approved	Eligible but not applied
19	M.Tech.	Cyber Forensics & Information Security	2014-15	18	-	-	Approved	Eligible but not applied
20	M.Tech.	Digital Communications	2010-11	18	-	-	Approved	Eligible but not applied
21	M.Tech.	Machine Design	2011-12	18	-	-	Approved	Eligible but not applied
22	M.Tech.	Power System Engg.	2011-12	18	-	-	Approved	Eligible but not applied
23	M.Tech.	Product Design & Manufacturing	2013-14	18	-	-	Approved	Eligible but not applied

Table A.7

8. Programs to be considered for Accreditation vide this application:

S. No.	Program Name
1	Civil Engineering
2	Computer Science & Engineering
3	Electronics & Communication Engineering
4	Mechanical Engineering
5	Mechatronics

Table A.8

9. Total number of employees in the institution:

A. Regular Employees (Faculty and Staff):

Items	Gender	2018-2019		2017-2018		2016-2017	
		Min	Max	Min	Max	Min	Max
Faculty in Engineering	M	145	168	156	176	132	157
	F	83	100	78	96	68	89
Faculty in Maths, Science & Humanities	M	19	22	21	23	19	21
	F	12	12	10	12	6	14
Non-teaching staff	M	42	47	37	45	35	39
	F	24	27	23	29	25	31

Table A.9 a

B. Contractual Staff Employees (Faculty and Staff): (Not covered in Table A):

Items	Gender	2017-2018		2016-2017		2015-2016	
		Min	Max	Min	Max	Min	Max
Faculty in Engineering	M	Nil					
	F						
Faculty in Maths, Science & Humanities	M						
	F						
Non-teaching staff	M						
	F						

Table A.9 b

10.Total Number of undergraduate Engineering students.

Item	2018-2019	2017-2018	2016-2017
Total no. of boys	3077	2907	3205
Total no. of girls	952	924	930
Total no. of students	4029	3831	4135

Total Number of Post graduate Engineering students.

Item	2018-2019	2017-2018	2016-2017
Total no. of boys	24	42	66
Total no. of girls	22	28	54
Total no. of students	46	70	120

Total Number of MBA students

Item	2018-2019	2017-2018	2016-2017
Total no. of boys	244	257	274
Total no. of girls	131	127	125
Total no. of students	375	384	399

Total Number of MCA students

Item	2018-2019	2017-2018	2016-2017
Total no. of boys	115	176	269
Total no. of girls	137	108	125
Total no. of students	252	235	394

11. Vision of the Institution:

Acharya Institute of Technology, committed to the cause of value-based education in all disciplines, envisions itself as a fountainhead of innovative human enterprise, with inspirational initiatives for Academic Excellence.

12. Mission of the Institution:

Acharya Institute of Technology strives to provide excellent academic ambiance to the students for achieving global standards of technical education, foster intellectual and personal development, meaningful research and ethical service to sustainable societal needs

13. Contact Information of the Head of the Institution and NBA coordinator, if designated:

i. Name : Dr M.R. Prakash

Designation : Principal

Mobile No :9448864740

Email Id ; principalait@acharya.ac.in

ii. **NBA coordinator,**

Name : Dr Gopinath S M

Designation : Professor & Head, Department of BT, IQAC-Coordinator

Mobile No :8660793877

Email Id ; gopinath@acharya.ac.in

Part B: Criteria Summary

Name of the Program: Department of Computer Science & Engineering

Criteria No	Criteria	Mark/weightage
Program Level		
1	Vision, Mission and Program Educational Objectives	60
2	Program Curriculum and Teaching – Learning Processes	120
3	Course Outcomes and Program Outcomes	120
4	Students' Performance	150
5	Faculty Information and Contributions	200
6	Facilities and Technical Support	80
7	Continuous Improvement	50
Institute Level Criteria		
8	First Year Academics	50
9	Student Support Systems	50
10	Governance, Institutional Support and Financial Resources	120
Total		1000

CRITERION 1	Vision, Mission and Program Educational Objectives	60

1. Vision, Mission and Program Educational Objectives (60)

1.1. State the Vision and Mission of the Department and Institute (5)

Vision of Institute

Acharya Institute of Technology, committed to the cause of value-based education in all disciplines, envisions itself as fountainhead of innovative human enterprise, with inspirational initiatives for Academic Excellence

Mission of the institute

Acharya Institute of Technology, strives to provide excellent academic ambiance to the students for achieving global standards of technical education, foster intellectual and personal development, meaningful reserh and ethical service to sustainable societal needs.

Vision of the Department

Envisions to be recognized for quality education and research in the field of Computing, leading to creation of globally competent engineers, who are innovative and adaptable to the changing demands of industry and society.

Mission of the Department:

- Act as a nurturing ground for young computing aspirants to attain the excellence by imparting quality education.
- Collaborate with industries and provide exposure to latest tools/ technologies.
- Create an environment conducive for research and continuous learning

1.2. State the Program Educational Objectives (PEOs) (5)

Students shall

- Have a successful carrier in academia, R&D organizations, IT industry or pursue higher studies in specialized field of Computer Science & Engineering and allied disciplines.
- Be competent, creative and a valued professional in the chosen field
- Engage in life-long learning, professional development and adapt to the working environment quickly
- Become effective collaborators and exhibit high level of professionalism by leading or participating in addressing technical, business, environmental and societal challenges.

1.3. Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (10)

Vision, Mission statements of the Institute/Department and Program Educational Objectives (PEOs) are published and disseminated through:

- Institute website: **https://www.acharya.ac.in/ait**
- Faculty course file
- Alumni survey forms
- Employer survey forms
- Displayed in HOD's room
- Displayed on notice boards in the corridors
- Displayed on notice boards of laboratories/ Out side classrooms
- All the prominent places of all the floors
- Departmental magazine MAGNUM OPUS
- Course plan emailed to students

The Vision, Mission of the institution, department and PEOs are communicated to faculty and students (new comers) in the introductory meeting. Faculty are made aware through discussions in regular meetings and Departmental Academic Committee (DAC) meetings. Faculty includes Vision, Mission of the institute and the department and PEOs in their course file and also communicates same to the students. The same are brought to the notice of the employers, parents and alumni by through information brochure, departmental magazine and also discussed in the parent- teacher meetings.

1.4. State the process for defining the Vision and Mission of the Department, and PEOs of the program (25)

The process for defining the vision and mission is shown in the Figure 1.4.1. The activities of the process are listed below:

1. Keeping vision and mission of the institute as a reference point, Head of the department after discussing with the DAC members & faculty, defines the vision and mission statements which are in alignment with the vision and mission of the institute
2. The inputs from stake holders are taken on draft vision and mission statements that are defined in step-1.
3. The approval of vision and mission statements (outcome of the DAC meeting) is placed before Departmental Advisory Board (DAB) for approval and revised if necessary.
4. Once the vision and mission statements are approved by the Departmental Advisory board. They are shared to the IQAC, Management and the Principal for information.
5. They are then published in the website and other places stated in 1.3.
6. Any comments by the Internal/External stake holders are noted and considered for next cycle of revising the vision and mission statements. Mision statement is revisited one 5 years and Vision statement is revisited once in 10 years.

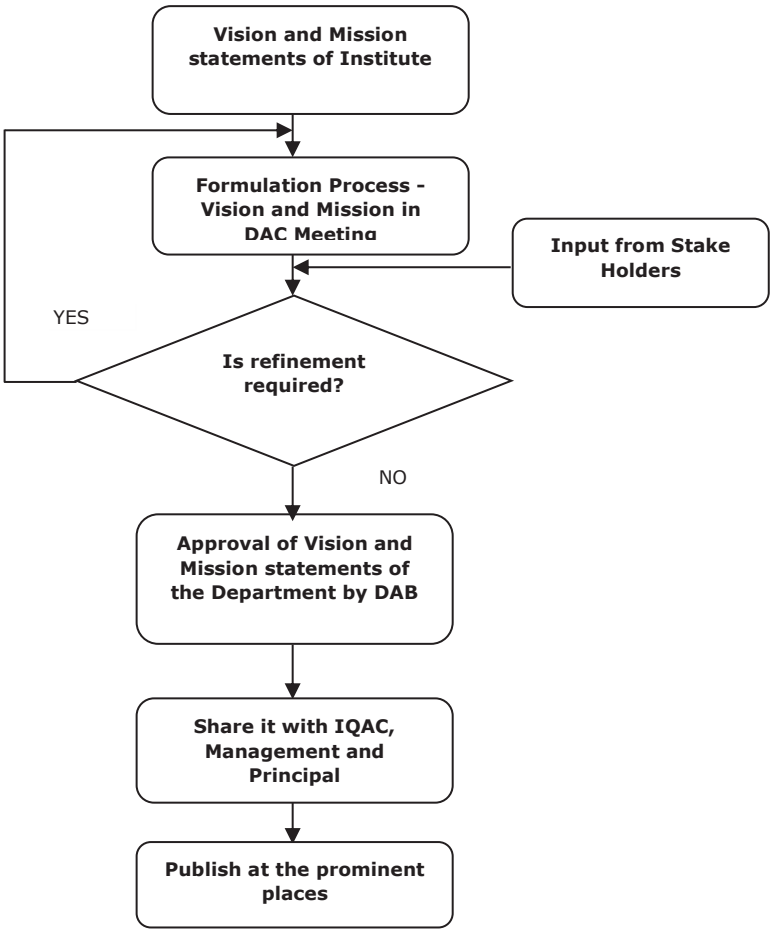


Fig. 1.4.1: Process for establishing vision and mission of department

The process for defining the PEOs is shown in Figure 1.4.2. The various steps are stated below:

1. The PEOs are initially defined in the DAC keeping global context as reference and by considering the vision, mission statements of the institute/department, program outcomes, inputs from stake holders.
2. The PEOs from step 1 are put before departmental advisory board for discussion and feedback. The suggestions given by the Departmental advisory board will be incorporated (for any changes) and they will be published after the approval of the Departmental advisory board.
3. The PEOs are shared with IQAC, management and the Principal for information and are published at prominent places.

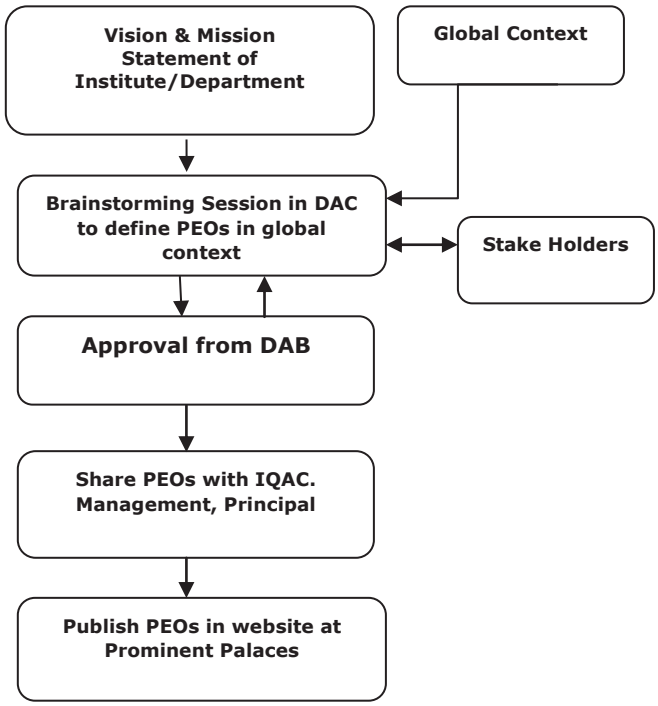


Fig. 1.4.2: Process for establishing PEOs of department

1.5. Establish consistency of PEOs with Mission of the Department (15)

PEO Statements	Quality of education	Collaboration with industries	Exposure to latest tools/ technologies	Conducive environme-nt for research	Conducive environment for continuous learning
	M1	M2	M3	M4	M5
PEO1: The students shall have a successful carrier in academia, R&D organizations, IT industry or pursue higher studies in specialized field of Computer Science and Engineering and allied disciplines.	3	3	3	1	3
PEO2: The students shall be competent, creative and a valued professional in the chosen field	3	2	3	3	3
PEO3: The students shall engage in life-long learning, professional development and adapt to the working environment quickly	2	1	2	1	3
PEO4: The students shall become effective collaborators and exhibit high level of professionalism by leading or participating in addressing technical, business, environmental and societal challenges.	3	2	2	2	3

Table B.1.5 Consistency PEOs with Mission of the Department

Justification for PEOs and Mission Statements mapping

- ✓ The good teaching learning process (Quality of Education) will make the graduate to be successful in the field of Computer Science & Engineering, hence mission component **M1 is strongly mapped to PEO1**
- ✓ Department's initiative to collaborate with industries **(M2)**, setting up industry supported laboratories and exposure to latest tools/technologies **(M3)** used in the industry will make the graduate industry ready. Encouraging students to self-learn through seminars, projects and self-study topics will inculcate continuous learning **(M5)** habit among the students. Thus, student gets a successful career in the field of Computer Science & Engineering and allied disciplines. Hence, mission statements-components **M2, M3 and M5 are strongly mapped to PEO1.**
- ✓ The department has a VTU approved R&D laboratory mainly utilized by the Ph.D. students, the research scholars guide PG/UG students to take-up final year projects, which motivates students to peruse further research in the chosen filed. Hence, mission component **M4** is slightly **mapped to PEO1**
- ✓ As stated earlier, quality education will make the graduate to be competent in the field of Computer Science & Engineering, hence mission component **M1 is strongly mapped to PEO2**
- ✓ Collaboration with industries to understand the standards and kind of solutions developed will allow students to have skill set to become competent, hence mission component **M2 is** modereately mapped to **PEO2**
- ✓ Exposure to latest tools/technologies **(M3)** used in the industry will make the graduate competent, creative and industry ready. Encouraging students to self-learn through research, seminars, projects and self-study topics will inculcate continuous learning habit among the students. Thus, student becomes competent and a valued professional.

Hence mission statements components **M3, M4 and M5 are strongly mapped to PEO2.**

- ✓ Exposing students to latest tools/technologies will make them to use them throughout their life, hence mission component **M3 is moderately mapped to PEO3.**
- ✓ Quality education becomes basis for professional development of the students hence, mission component **M1** is moderately mapped to **PEO3**
- ✓ As stated earlier, inculcating self-learning ability to students through seminars, projects and self-study topics will bring continuous learning habit among the students. Hence, mission component **M5 is strongly mapped to PEO3.**
- ✓ Creating environment conducive for research, collaborating with industry and inculcating research culture among students will lead to life-long learning habit. Hence, mission component **M2** and **M4 is slightly mapped to PEO3.**
- ✓ Creating conducive environment for self-study **(M5)** will make the students to think and take suitable decisions on their own when there are challenges. Quality education leads to professionalism among the students **(M1)** make students highly professional and work for societal cause. Hence**, M5 and M1 are strongly mapped to PEO4.**
- ✓ Industry tieups, exposing students to latest tools/technologies and providing condusive research environment will make the students confident and allow them to lead organizations and addressing any business challenges. Hence, mission components **M2, M3 and M4 are moderately mapped to PEO4**

CRITERION 2	Program Curriculum and Teaching – Learning Processes	120

2. PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES (120)

2.1 Program Curriculum (20)

2.1.1. State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any (10)

Acharya Institute of Technology is affiliated to Visvesvaraya Technological University (VTU) and the program curriculum is given by VTU. Generally, Curriculum maintains the balance in the composition of basic science, humanities, professional courses and their distribution in core and electives, the composition of VTU curriculum for the program B.E (Bachelor of Engineering) in Computer Science & Engineering (CS&E) is shown in table 2.1.a. The table 2.1.b shows extent of mapping of the courses to program outcomes.

SL No	Types of Course offered	No of subjects mapped	No of hours allotted	Weightage	POs
1	Humanities & Social Sciences	02	52	01%	PO6, PO7, PO9, PO10, PO12
2	Basic Sciences	08	396	09%	P01, PO2, PO6, PO7, PO12
3	Engineering Sciences	08	428	10%	PO1, PO2, PO3, PO5
4	Professional Core	35	1740	41%	PO1, PO2, PO3. PO4, PO5, PO12
5	Professional electives	30	1560	36%	PO1, PO2, PO3, PO5
6	Project Work	01	84	02%	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12
7	Seminar	01	28	01%	PO1, PO2, PO5, PO9, PO10, PO12
Total		85	**4284**	100%	

Table 2.1.a: Composition of courses

SUBJECT CODE	SUBJECT NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I Semester													
10MAT11	Engg Mathematics-1	✓	✓	-	-	-	-	-	-	-	-	-	-
10CHE12	Engg Chemistry	✓	✓	-	-	-	-	-	-	-	-	-	-
10CCP13	C Programming for Problem Solving	✓	✓	-	-	-	-	-	-	-	-	-	-
10CED14	Computer Aided Engg Drawing	-	✓	✓	✓	✓	-	-	-	-	-	-	-
10ELN15	Basic Electronics	✓	-	-	-	-	-	-	-	-	-	-	-
10CPL16	C Programming Laboratory	-	✓	✓	✓	-	-	-	-	-	-	-	-
10CHEL17	Engg chemistry Lab	✓	✓	-	✓	-	-	-	-	-	-	-	-
10CIV18	Environmental Studies	-	-	-	-	-	✓	✓	-	-	-	-	-
II Semester													
10MAT21	Engg Mathematics-II	✓	✓	-	-	-	-	-	-	-	-	-	-
10PHY22	Engg physics		✓	-	-	-	-	-	-	-	-	-	-
10CIV23	Elements of Civil Engg	✓	✓	-	-	-	-	-	-	-	-	-	-
10EME24	Elements of Mechanical	-	✓	✓	-	-	-	-	-	-	-	-	-
10ELE25	Basic Electrical Engineering	✓	✓	-	-	-	-	-	-	-	-	-	-
10WSL26	Work shop Practices Lab	✓	-	✓	-	✓	-	-	-	✓	-	-	-
10PHYL27	Engg Physics Lab	✓	✓	-	✓	-	-	-	-	-	-	-	-
10CIP18	Constitution of India and Prof. Ethics	-	-	--	-	-	-	-	✓	-	-	-	✓
III Semester													
10MAT31	Engg Mathematics-III	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS32	Electronic Circuits	-	✓	✓	-	-	-	-	-	-	-	-	-
10CS33	Logic Design	✓	✓	✓	-	-	-	-	-	-	-	-	-
10CS34	Discrete Mathematical Structures	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS35	Data Structures With C	✓	✓	-	-	-	-	-	-	-	-	-	-

10CS36	Object Oriented Programming with C++	✓	✓	-	-	-	-	-	-	-	-	-	-
10CSL37	Data Structures With C/C++ Laboratory	✓	-	-	✓	-	-	-	-	-	-	-	-
10CSL38	Electronic Circuits & Logic Design Laboratory	-	-	✓	✓	✓	-	-	-	-	-	-	-
IV Semester													
10MAT41	Engg Mathematics-IV	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS42	Graph Theory andCombinotrics	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS43	Design and Analysis of Algorithms	✓	✓	✓	-	-	-	-	-	-	-	-	-
10CS44	Unix And Shell Programming	✓	-	-	-	-	-	-	-	-	-	-	-
10CS45	Microprocessors	✓	-	✓	-	-	-	-	-	-	-	-	-
10CS46	Computer Organization	-	✓	✓	-	-	-	-	-	-	-	-	-
10CSL47	Design and Analysis of Algorithms Laboratory	✓	✓	✓	✓	-	-	-	-	-	-	-	-
10CSL48	Microprocessor Laboratory		-	✓	✓	✓	-	-	-	-	-	-	-
V Semester													
10IS51	Software Engineering	✓	-	✓	-	-	✓	-	-	✓	-	✓	-
10CS52	System Software	✓	-	-	-	-	-	-	-	-	-	-	-
10CS53	Operating Systems	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS54	Database Management		✓	✓	-	-	-	-	-	-	-	-	-
10CS55	Computer Networks - I	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS56	Formal Languages And	✓	✓	✓	-	-	-	-	-	-	-	-	-
10CSL57	Database Applications Laboratory	✓	✓	-	-		-	-	-	-	-	-	-
10CSL58	SS& OS Lab	✓	✓	-	-	-	-	-	-	-	-	-	-
VI Semester													

10AL61	Management and Entrepreneurship	-	-	-	-	-	✓	✓	-	✓	-	✓	-
10CS62	Unix System Programming	✓	-	-	-	-	-	-	-	-	-	-	-
10CS63	Compiler Design	✓	✓	✓	-	-	-	-	-	-	-	-	-
10CS64	Computer Networks-II	✓	-	✓	-	-	-	-	-	-	-	-	-
10CS65	Computer Graphics and Visualization	✓	✓	✓	-	✓	-	-	-	-	-	-	-
10CS661	Operations Research	✓	✓	✓	✓	-	-	-	-	-	-	✓	-
10CS663	Data Compression	-	✓	-	-	✓	-	-	-	-	-	-	-
10CS664	Pattern Recognition	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS665	Stochastic Models and Applications	✓	-	✓	-	-	-	-	-	-	-	-	-
10CS666	Programming Languages	-	✓	-	-	-	-	-	-	-	-	-	-
10CSL67	Computer Graphics and Visualization Lab	✓	-	✓	✓	✓	-	-	-	✓	✓	✓	-
10CSL68	Unix Systems Programming and CD lab	✓	-	✓	✓	✓	-	-	-	-	-	-	-
VII Semester													
10CS71	Object-Oriented Modeling And		✓	✓	-	-	-	-	-	-	-	-	-
10CS72	Embedded Computing	✓	✓	✓	-	-	-	-	-	-	-	-	-
10CS73	Programming the Web	✓	✓	✓	-	-	-	-	-	-	-	-	✓
10CS74	Advanced Computer Architectures	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS751	Advanced DBMS		✓	✓	-	-	-	-	-	-	-	-	-
10CS753	Java AndJ2EE	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS754	Multimedia Computing	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS755	Data Warehousing	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS756	Neural Networks		✓	✓	-	-	-	-	-	-	-	-	-
10CS761	C# Programming And .Net	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS763	Game Theory	✓	✓	✓	-	-	-	-	-	-	-	-	-
10CS764	Artificial Intelligence	✓	-	✓	-	-	-	-	-	-	-	-	-

10CS765	Storage Area Networks	✓	✓	-	-	-	-	-	-	-	-	-	-
10CS766	Fuzzy Logic	✓	-	✓	-	-	-	-	-	-	-	-	-
10CSL77	Networks Laboratory		✓	✓	✓	✓							
10CSL78	Web Programming Laboratory	✓	-	✓	✓	✓	-	-	-	-	-	-	-
VIII Semester													
10IS81	Software Architectures	✓	-	✓	-	-	-	-	-	-	✓	-	-
10CS82	System Modeling and Simulation	✓	✓	✓	-	-	-	-	-	-	-	-	-
10CS831	Wireless Networks And	✓	-	-	-	✓	-	-	-	-	-	-	-
10CS832	Web 2.0 And Rich Internet		✓	-	-	✓	-	-	-	-	-	-	-
10CS834	Network Management		✓	-	-	-	-	-	✓	-	-	-	-
10CS835	Information and Network Security	✓	✓	-									
10CS836	Microcontrollers and Embedded Systems	✓	-	✓	-	-	-	-	-	-	-	-	-
10CS841	Adhoc Networks	-	-	-	-	-	-	-	-	-	-	-	-
10CS842	Software Testing	✓	-	-	-	-	-	-	-	-	-	✓	-
10CS843	Arm Based System Design	✓	-	-	-	-	-	-	-	-	-	-	-
10CS844	Services Oriented	-	-	-	-	-	-	-	-	-	-	-	-
10CS845	Clouds, Grids, And Clusters	✓	-	-	-	✓	-	-	-	-	-	-	-
10CS846	Multi-Core Architecture and Programming	-	✓	-	-	✓	-	-	-	-	-	-	-
10CS85	Seminar	-	✓	-	-	✓	-	-	-	✓	✓	-	✓
10CS86	Project	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TOTAL		59	54	36	14	17	04	03	04	06	04	06	04
%		68%	63%	41%	16%	20%	5%	2%	5%	8%	5%	7%	5%

Table 2.1.b Mapping of Courses to PO

The percentage of mapping of courses to Pos shown in Table 2.1.a & 2.1. b clearly exposes the following curricular gaps

SL	PO's	Description
1	PO4	Conduct investigation
2	PO5	Modern tool Usage
3	PO6	The Engineer & Society
4	PO7	Environment & Sustainability
5	PO8	Ethics
6	PO9	Individual & Team Work
7	PO10	Communication
8	PO11	Project Management & Finance
9	PO12	Life Long Learning

Table 2.1.C: Curriculum Gaps

2.1.2. State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10)

The following are the major activities conducted to meet the gaps.

2017-18

S.No.	Gap	Action Taken	Date-Month-Year	Resource Person with designation	% of students	Relevance to POs, PSOs
1	Usage of modern tools & coding skills	Hackathon	02-04-18	Mr. Hrushikesh Choudhary & Mr. Nikhil Talwar Coordinators	60%	PO4, PO5, PSO1, PSO3
2	Industry readiness	Cloud Computing & Careers	09-09-17	Mr. MURALI MALLADI, Nutanix, Bangalore	60%	PO5, PO12, PSO1, PSO2, PO8
3	Interaction with industry	Career Guidance for IT Industry	14-08-17	Mr. Bharath M H Naidu, Release Manager, Salesforce, Hyderabad	65%	PO12, PO8 PSO1

Table 2.1.d: Activities conducted in 2017-18

2016-17

S.No.	Gap	Action Taken	Date-Month-Year	Resource Person with designation	% of students	Relevance to POs, PSOs
1	Individual and Team Work, Life Long Learning	Mock Interview-Student Development Program	08-04-17	Faculty and 8th Semester Students of CSE	90%	P09, P012 PSO1
2	Individual and Team Work, Life Long Learning, Project Management	Talk on significance of start-ups and career guidance.	19-10-16	Ms. Priya Agarwal, Alumni, CSE, AIT	60%	P09, PO11, P012 PSO1
3	Individual and Team Work, , Project Management	Technical Talk on "Significance of Research and Interdisciplinary project Guidance"	17-04-17	Dr. Jharna Mazumdar, Professor & Dean (R&D) NMIT, Bangalore	75%	P09, PO11 PSO1

Table 2.1.e: Activities conducted in 2016-17

2015-2016

S.No.	Gap	Action Taken	Date-Month-Year	Resource Person with designation	% of students	Relevance to POs, PSOs
1	Individual and Team Work,, Life Long Learning	Workshop on Significance of Entrepreneurship for Engineering Students	15-02-16	Riyad Rasheed,CEO, Dwise Solutions and Services Pvt Ltd,	90%	PO9, PO12 PSO1
2	Modern Tool Usage	Android Application Development workshop	19-10-16	Mr. Alexandre ReboucasLeite, Alumni, CSE, AIT	80%	PO5 PSO3
3	Modern Tool Usage	Workshop on awareness Program on FOSS Open Source Software	08-02-17	Mr. Nagesh, JT, Director, CDAC, Bangalore	70%	PO5 PSO3
4	Modern Tool Usage	Python Programming	03 to 04 - 08- 19	Mr. ParthSharma ,Alumni, AIT (Start-up Knight Inc)	70%	PO5 PSO1, PSO3

Table 2.1.e: Activities conducted in 2015-16

2.2. Teaching - Learning Processes (100)

2.2.1. Describe Processes followed to improve quality of Teaching & Learning (25)

Every single individual student has a particulary way of learning, using distinctive modes for thinking, relating and creating. The notion of students having particular learning styles has implications for teaching strategies. This is because preferred modes of input and output vary from one individual to another, it is critical that teachers use a range of teaching strategies to effectively meet the needs of individual learners. The model being adopted by us for teaching & learning is depicted in Figure 2.2 a.

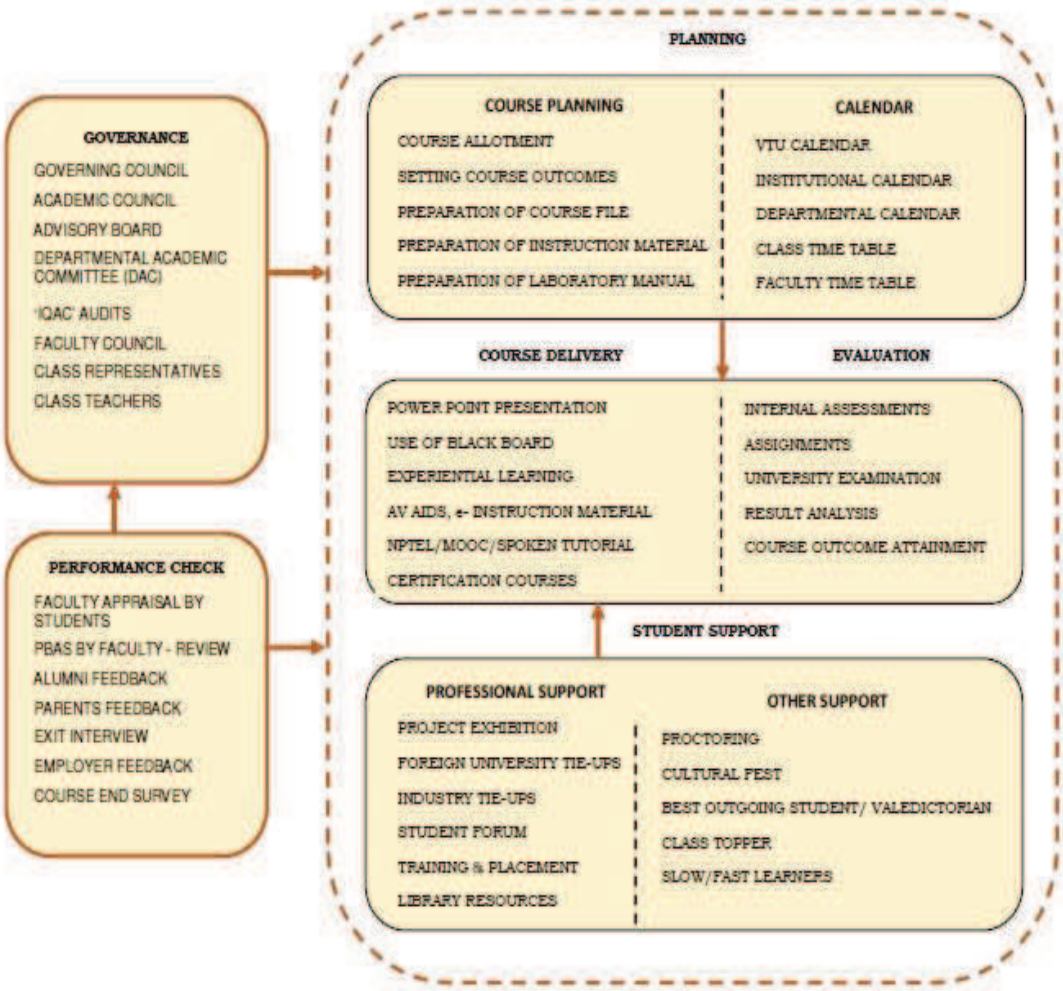


Fig 2.2.a: Teaching and learning Process

The teaching & learning process is categorized into five major aspects. The first and crucial aspect in **planning**, which involves **course execution planning and adherence to the scheduled calendar,** second **course delivery & evaluation of students**, third **support to students** (both slow and fast learners), fourth **performance check, which involves 360^0 feedback from all stake holders**, fifth and most imprtant, which will major impact on the quality of the T&L process is **governance.** These aspects are described in detail in the following section"

Planning & adherence to Calendar of Events (CoE):

Acharya Institute of Technology (AIT), Bengaluru is affiliated to Visvesvaraya Technological University (VTU). Academic year is divided into odd and even semesters of six months each. Odd semester normally starts every August and ends in November. Even semester starts in February and ends in May. AIT recieves curriculum for all approved programs and academic calendar by the VTU. AIT prepares Institutional calendar of events adding Internal Assessment dates, schedule or Academic Council meetings, college's annual festival and other events to the calendar received by the VTU and sends it to the department. Department of CS&E taking institutional calendar of events as reference adds students forum events, schedule of departmental academic commitee meetings (DAC), faculty meetings, proctor-student meetings and other events to prepare departmental calendar of events. The departmental calendar so prepared (sample shown in ANNEXURE-II) is circulated among the faculty and the students. Atmost effort is made to execute the planned events as per the calender.

The courses allotment to the faculty for the comensing semester is done by HoD in a faculty meeting in the last week of the previous semester. The courses allotment is done considering faculty expression of interest/preference to take courses and their area of specializatin in B.E/M.Tech/Ph.D. Most of the time faculty would atleast get preferred courses

to teach. This provides faculty ample amount of time to prepare for delivering the allotted course(s).

The time table coordinator appointed by the Head of the Department (HoD), prepares class time table and personal time table of faculty using the calendar of events prepared by the departement. Class time tables are displayed on the notice board and emailed to the the students atleast four days before the start of the semester. The personal time tables are issued to the faculty for delivering the lectures/conduct laboratory as per the schedule atleast a week ahead. The courses in curriculum prescribed by VTU for B.E in Computer Science & Engineering program are categorized in to several related modules. The senior faculty having expertise in multiple courses to belonging to the same module is choosen as module coordinator, who has the role of ensuring the quality of teaching & learning. The table 2.2.a shows the modules & respective module coordinators nominated in the DAC meeting.

Sl. No.	Name of the Module	Courses	Module Coordinator(s)
1.	**System Software**	Operating System, Compiler Design, Unix and Shell programming, Unix system Programming	Dr. Nagaveni
2.	**Programming Languages**	Programming in C, Programming in JAVA, Programming in C++, Python Programming Data Strucures, Algorithms	Mrs. Vani K.S
3.	**Hardware**	Computer Organization, Advanced Computer Architecture, Microprocessors, Logic Design, Embedded Computing System and Electornic circuits	Dr. Prashanth C.M
4.	**Engineering Mathematics**	Engineering Mathematics – I, II, III, IV, Discrete Mathematical Strucures, Operation Research and graphy theory	Dr. Rajanna Dr. P.V. Kumar
5.	**Data Bases**	SQL programming, development of applications	Dr. P.V Kumar
6.	**Computer Networks**	Networks -1/2, distributed system, data communication	Mr. Rajeev Bilagi
7.	**Web Technology**	HTML, CSS, PHP, AJAX, JSP	Mrs.Ancy Thomas
8.	**Theory of Computing**	Automata Theory and Formal Languages	Mr. Ravindra Joshi

Table 2.2.a: Modules and Coordinators

Once the courses are alloted to faculty, the course instructor writes quality course outcomes and ensures they map to learning levels of blooms learning model. The course outcomes written by the course instructors are checked by the module coordinators to ensure the quality. Course Instructor then prepares course delivery plan and shares it among the students through e-mail, before the start of the semester. The course plan and adherence to plan is continuously monitored by the HOD.

Course delivery:

The course instructor, once ready with instructional material and assessment methods, uses one or more following instructional methods for class room teaching:

1. Chalk and Black board
2. Power point presentation
3. Demonstration of concepts
4. Seminars by students
5. Group assignments &discussions
6. Peer learning
7. Mini/Major projects

The learning material, laboratory manual, question bank, power point presentation prepared by the faculty are shared with the students as and when necessary. The students are allowed to learn from their peers or senior students. A dedicated slot is shown in the class time table for student forum activities. As a part of it, students are encouraged to learn from their peers who are fast learners or from their seniors. Most of the class room are facilitated with LCD porjectors. The faculty prepares PPTs containing diagrams, vedios, and pictures for the difficult topics. The faculty demonstrate the working of programs by running them in the class with the help of projectors. The students are encouraged to take up MOOC courses and participate in various curricular events organized in the department and other institutes. The attainment of the stated outcomes of the course is computed.

Evaluation: Continuous learning assessment

Assessment of students learning is made on a regular basis through internal assessments, assignments, quizzes for theory courses and for practical courses assesment is made on a weekly basis (after the completion of every experiment). Learning difficulties of the students are disscussed with the class teacher/proctor/Hod or in the faculty meeting and are addressed by improving TLP. Projects and seminars are assessed based on the rubrics developed and notified to the students in advance. Students performance in the University exams is analysed and over all result with the course instructor's report is presented to the HoD.

Support to the students:

Proctoring:

The department has an efficient students mentoring system. HOD appoints one of the senior faculty as coordinator for student mentoring/proctoring process. Proctor coordinator in turn allots group of students consisting of 20-25 students to every faculty member at the commencement of the program. Proctors meet their mentees every 15 days or as an when required and guide them with their studies and co/extra-curricular activities. The students academic progress, regularity in attending classes and participation in co/extra curricular activities in the department and outside the institute are kept track by the respective proctor. Proctor updates his/her proctee progress to parents on a regular basis. This mechanism is helping the department to resolve many concern(s) of the students at the early stage itself.

Identification of slow and fast learners:

Course instructor will identify weak students (refer to table 2.2.b) in the course based on several parameters such as perfomance in Continuous Internal Evaluation (CIE), interaction in classes, feedback from proctors and interaction outside classes. Course instructor helps week students with additional coaching/remedial classes, learning material(s), counselling and monitors

outcome with their proctors. Bright students (refer to Table 2.2.c) are identified in a similar manner and encouraged learn extra beyond the syllabus, attend conferences/ workshops/ seminars conducted outside the institute and given some extra coding assignments.

Sl. No.	Traits	Identified by	Remedy	Outcome
1	One has ability to learn but takes longer time to grasp new concepts	Course Instructor	Tutorial Class /Customized assignments	Able to explain concepts
2	One is not self-confident and gives up quickly	Course Instructor/Proctor	Counselling /Continuous monitoring	Able to perform better in tests/Behavioural Change
3	One has short memory and don't remember what has been taught to them in class	Course Instructor	Preparatory Tests /Customized assignments/Additional laboratory Classes	Able to perform better in tests and university exams
4	One has poor communication skills and writing skills	Course Instructor/Proctor	Customized Assignments / Group discussion	Able to participate in discussion in the class /writes better in tests and university exams
5	He/she is an experiential learner	Course Instructor	Use of ICT devices / Additional laboratory classes	Able to perform better in tests
6	One is irregular to the classes	Course Instructor	Counselling /Continuous monitoring	Attends classes regularly
7	One has poor academic background at the entry to the programme and do not perform well in initial tests	Course Instructor/Proctor	Bridge classes	Improvement observed (Marks may be a metric)

Table 2.2.b Process of identifying &probobale action (weak students)

Sl. No.	Traits	Identified by	Support	Outcome
1	One has ability to grasp new concepts really fast	Course Instructor	Customize assignment	Demonstrates critical thinking.
2	One who completes laboratory exercises very fast and wait for additional exercises	Course Instructor	Additional laboratory exercises are given	Gets good grades in tests and examinations
3	One who participates actively in discussions that happen in the class room	Course Instructor	Encouraged to organize events	Able to lead and convince people
4	One has good academic background at the entry to the programme and does well in initial tests	Course Instructor / Proctor	They are supported for internships at industries and are incentivised by giving academic flexibility.	Demonstrates assimilation of knowledge
5	One who is highly focused about his/her future	Proctor	Online access to research journal and study material required for higher learning is given	Demonstrates assimilation of knowledge
6	One who volunteer for attending additional training, workshops and internships	Proctor	They are encouraged to do innovative projects, seek funding from management/ external agencies (DST, KSCST etc,) and participate in project exhibitions	Emerges successful in carrying out innovative projects

Table 2.2.c: Process of identifying & probobale action (Bright students)

Professional Activities

- ✓ The departmet has a **Computer Society of India (CSI)** student branch (Memb. No. I00808) and activities are conducted regularly in association with CSI.
- ✓ The department has a students forum named "**Lakshya**", which aims at conduction of various technical activities helping the students to learn latest tools and technologies.
- ✓ The student development programs are organized on a regular basis by inviting exeternal speakers drawn from the IT industries or other reputed institutions/Universities. The topic/theme (beyond curriculum) for student develop programs is identified by the faculty or by the DAC members
- ✓ The Faculty Development Programs(FDP) are organized on a regular basis as and when required. Faculty are also deputed to attend FDPs, Workshops, Conferences and Seminars to other Institutes/Universities.

Paper publications and funding proposals:

The final year students are encouraged to apply for KSCST funding every year. Departmtent has a project coordinator who initiates the process of seeking proposals under themes mentioned by the KSCST and ensures proposals are submitted. The faculty and final year students are encouraged to publish their project findings at various conferences and journals.

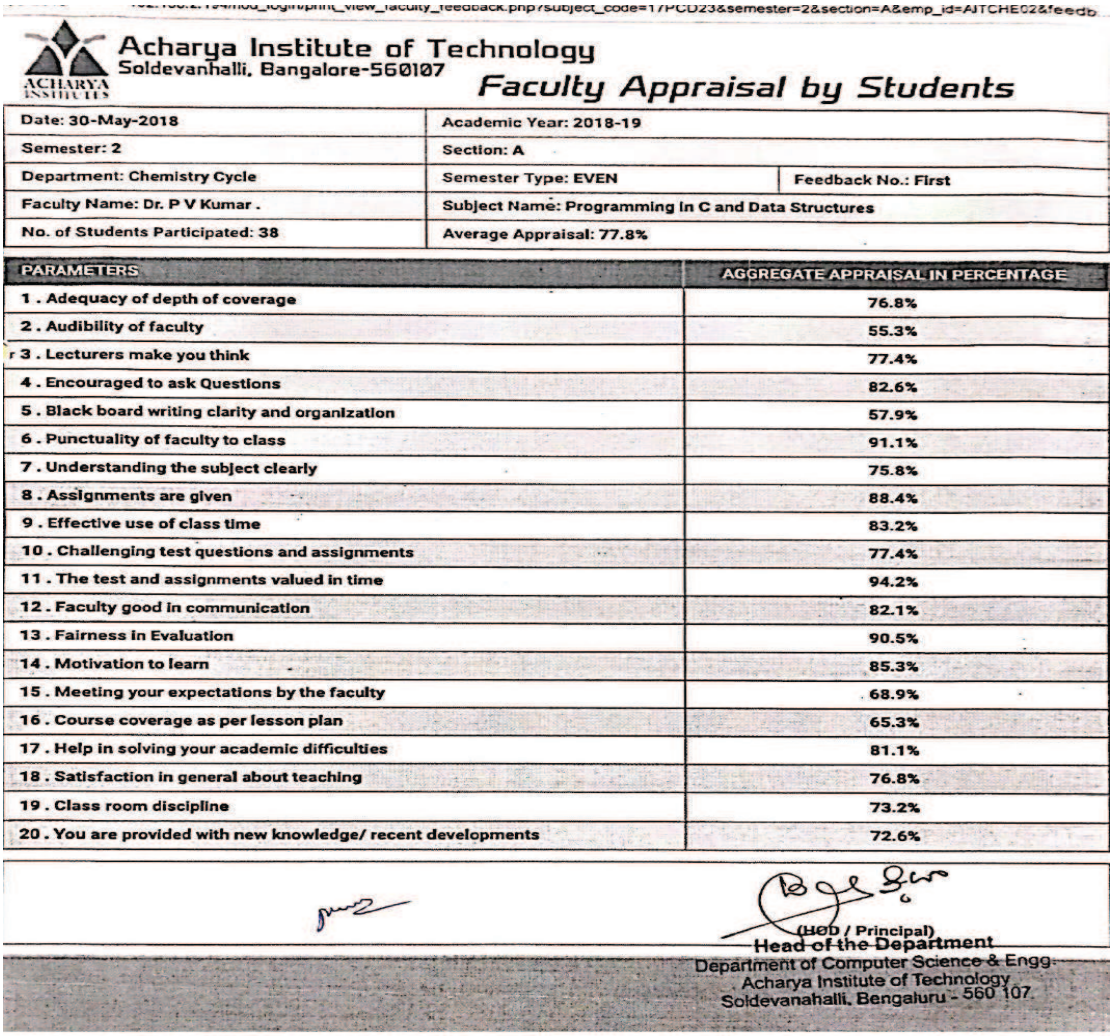
"Best out going student" award:

Department selects one of the final year students as the "Best out-going student" of the program and student is suitably rewarded. Selection in done based on how many internships student undergo during his 4 years of study year, innovative projects under taken and completed, MOOC courses studied, university marks, number of jobs offered and publications. The selection procedure is brought to the notice of the students in their first year of study or during the induction.

Performance Check

Faculty appriasal by the students:

At the end of the course online feedback on faculty performance is obtained from the students and analysed. Faculty not meeting 70% of stated expectations are counselled and asked explanation for the same and faculty development is suitably planned. The sample format showing questionnaire is shown in Fig. 2.2.b.



Acharya Institute of Technology
Soldevanhalli, Bangalore-560107

Faculty Appraisal by Students

Date: 30-May-2018	Academic Year: 2018-19	
Semester: 2	Section: A	
Department: Chemistry Cycle	Semester Type: EVEN	Feedback No.: First
Faculty Name: Dr. P V Kumar .	Subject Name: Programming in C and Data Structures	
No. of Students Participated: 38	Average Appraisal: 77.8%	

PARAMETERS	AGGREGATE APPRAISAL IN PERCENTAGE
1 . Adequacy of depth of coverage	76.8%
2 . Audibility of faculty	55.3%
3 . Lecturers make you think	77.4%
4 . Encouraged to ask Questions	82.6%
5 . Black board writing clarity and organization	57.9%
6 . Punctuality of faculty to class	91.1%
7 . Understanding the subject clearly	75.8%
8 . Assignments are given	88.4%
9 . Effective use of class time	83.2%
10 . Challenging test questions and assignments	77.4%
11 . The test and assignments valued in time	94.2%
12 . Faculty good in communication	82.1%
13 . Fairness in Evaluation	90.5%
14 . Motivation to learn	85.3%
15 . Meeting your expectations by the faculty	68.9%
16 . Course coverage as per lesson plan	65.3%
17 . Help in solving your academic difficulties	81.1%
18 . Satisfaction in general about teaching	76.8%
19 . Class room discipline	73.2%
20 . You are provided with new knowledge/ recent developments	72.6%

(HOD / Principal)
Head of the Department
Department of Computer Science & Engg.
Acharya Institute of Technology
Soldevanahalli, Bengaluru - 560 107

Fig. 2.2.b: Facutly appraisal by students

Parent- Teacher meetings:

Formally Parent -Teacher Meeting is conducted once in a semester to communicate to parents about the academic progress of their children. Informal parent-teaching happens as and when

necessary. The interaction helps to support the students in a better manner. The parent teacher meetings are coordinated by the proctoring coordinator of the department. Meeting starts with HOD briefing the activities and achievements of the department to the parents. The the parents meeet the respective proctor of their children to get the academic progress. The concern(s) if any are discussed with the proctor by the parents and if HoD's intervention is necessary to address the concern(s) of the parents, then proctor arranges a meeting with the HoD. At the end of the meeting parents feed back is collected on quality of Teaching Learning Process and Program Educational Objectives (PEOs).

Course end survey:

At the end of the course, a survey is conducted among the students as to know to what extent faculty have achieved the stated course outcomes. This acts as an indirect assessment method. The course end survey sample format for the course Computer Organization is shown below:

Note: On a scale of 1 to 3 rate the following

Sl. No.	Question	Rating	CO addressed
1	Do you have the knowledge of basic structure and functioning of Computer system?		CO1
2.	Can You demonstrate functioning of adder, multiplier and division circuits in Arithmetic unit?		CO2
3.	Do you have an understating of memory management and can demonstrate concepts of cache management, virtual memory management techniques?		CO2
4.	Can you demonstrate the understanding of Interrupt handling and interrupt driven data transferring?		CO2
5.	Can you design simple I/O interface Circuits?		CO3
6.	Can you analyze performance related issues in main memory, cache memory and Processor?		CO4
7.	Can you build simple adder, multiplier and discuss performance issues?		CO3

Table 2.2.d: Course end survey questionnaire

Exit survey:

At the end of the program, graduates are asked to give feedback on level of accomplishment of stated Program Outcomes, Program Educational Objectives and Program Specific Outcomes (PSOs). This data is analysed to understand the improvements required in Teaching Learning Processes. The sample format is shown below:

Alumni Name:	Rajan Prasashar		
USN:	LAY13CS083		
Year of Passing:	2017	Gender: Male ☑ Female ☐	
ContactDetails:	7204601741	Email	rproshar.11@gmail.com
Date:	24-Nov-17		

EMPLOYMENT HISTORY:

Currently youare: (Give important details)	Pursuing Higher Education :	Employed:	Self Employed:
If employed please specify the employer industry	Employment dates	Type ofIndustry	Position/sHeld
1. Cellworks Research India Pvt LTD	4-Sep-2017	Biothechnology	Software Development Associate
2.			
3.			

If self employed please specify the nature of entrepreneurial initiative taken:

Please respond to each artifactin this surveyin theplaceprovided.

Sl No	Artifacts	Strongly Disagree[0]	Disagree[1]	Agree[3]	Strongly Agree[4]
1	Your graduate experience had a significant positive effect on your professionaldevelopment and creativity				✓
2	Your graduate experience had helped you in exploiting state of the art technologies and contemporary problem solving methods.			✓	
3	Your graduate experience offered you opportunities for advanced original and interdisciplinarywork.			✓	
4	Your graduate experience prepared you to adapt to contemporary tools, technologies and processes in working environment.			✓	
5	Yourgraduate experiencecontributed significantly to your professional enrichment.				✓
6	Yourgraduate experienceprovided confidencelevel in becoming an entrepreneur		✓		
7	Yourgraduate experience provided to work together in respectful and collaborative manner with team members to complete the assigned task.			✓	
8	Your graduate experience equipped you in demonstrating time management and follow organizational code of conduct policies.			✓	

Governance

Internal Quality Assurance Cell (IQAC) Audits:

The IQAC cell conducts two audits every semester one in the beginning of the semester and one in the end of the semester to verify confirmance to the suggested procedures for framing quality course outcomes, setting up of quality questions for internal assessment, attainment of course/program outcomes, effectiveness of course delivery and best practices by the faculty. The audit report format is show in the table 2.2 e.

Sl. No.	Faculty Name	Personal Time Table	Course Code	Course File		Notes/ Manuals	COs	CO-PO Mapping
				Staff	Student			
				S/SI/NS		S/SI/NS	S/SI/NS	S/SI/NS
	Remarks							
	Remarks							
	Remarks							

S : satisfactory, SI : Scope to improve, NS: Not satisfactory

Signature of Head of the Department

Table 2.2.e: Audit form

Departmental Advisory Board (DAB):

The departmental Advisory Board comprises of knowledgebale and commmitted individuals drawn from both academia and industry, who are willing to volunteer their time for regular meetings and support the growth of the department. The DAB meets once in an year to discuss strategy for academic excellence. The composition of the currrent advisory board is shown below:

1	Chief Advisor	Dr. Prakash M.R Principal, Acharya Institute of Technology, Bengaluru

2	Chairman	Dr. Prashanth C.M Professor & Head, Dept. of Computer Science & Engineering
2	Member Secretary	Dr. P.V Kumar Professor, Department of CS&E
3	Member	Dr. Chandrasekharan Ex Director & Professor, Dept. of CS&E, NITK, Surathkal
4	Member	Dr. K. Rajinikanth Former Principal, MS Ramaiah Institute of Technology, Bengaluru
5	Member	Dr. Basavaraju T.G Professor & Head, Govt. SKSJIT, Bengaluru
6	Member	Mr. Kishore P.N CEO, Vericon Technologies Pvt. Ltd. ,Bengaluru
7	Member	Mr. Sridhar D.P CEO, Innovation Enabler Inc (USA), Ssquare Innovation Softlabs Pvt. Ltd, Begaluru
8	Member	Ms. Jyothi Managing Director, FulcrumEdu, Bengaluru
9	Member	Mr. Vijay Simha Director, Neocortex Networks Pvt. Ltd., Bengaluru

Departmental Academic Commiteee (DAC):

HoD consititutes DAC as per the guidellines issued by IQAC. The objective of the DAC is to ensure quality teaching & learning. The DAC members meet evey month generally, however, special meeting is scheduled by the HoD if necessary. The DAC is responsible for:

1. Formulation of Vision, Mission and Program Educational Objectives
2. Curriculum gaps identificatin and action plan
3. Traning need analysis for students and faculty
4. Ensuring quality of internal assessment question papers & scheme of evaluation
5. Monitoring students progression

DAC Composition:

Chairman	HOD
Members	Senior Professor Senior Associate Professor or Assistant Professor -G! Assistant Professor – G3 IQAC coordinator NBA/NAAC coordinator Proctoring coordinator

Class teachers:

Senior most faculty handling one of the courses for the class is nominated as class teacher by the HOD before the starting of the semester. Meetings of so nominated class teachers is conducted every month to discuss about syllabus coverage, students attendance monitoring, oral feed back from students on courses delivery, identification of weeker students and bright students during the semester and shown in the academic calendar circulated to the students. The concern(s) brought out by the faculty (if any) is/are addressed by presenting it before the Principal and the mangement by the HOD.

Class representatives:

Class teacher nominates one boy and one girl as the class representatives in the beginning of the semester. HOD frequently meets the class representatives to solicit their opionion on the teaching learning process, infrastructure , leaning experience and addresses the concern rised by the students.

2.2.2 Quality of internal semester question papers, assignments and evaluation

The objective of the intenal assessments carried out during the semster is to check whether the learners have aquired the skills stated as course outcomes. There shall be a maximum of 25 internal assessment marks in each theory and practical courses (as per 2010 scheme). In case of practical course, the IA marks shall be based on the laboratory record, viva/voce and one test. Asssignment is not mandated by the VTU, however course instructor decides on giving assignment(s) to the students in addition to madated internal assessments. The internal assessment process is shown in the Figure 2.2.d. The major activities are

- ✓ Question Paper preparation (Sample question Paper is shown in Figure 2.2.c)
  - Mapping of questions to Cos and blooms levels
- ✓ Verification by the Module Coordinator

- ✓ Evaluation scheme preparation and setting CO attainmen target
- ✓ Computation of COs and POs
- ✓ Corrective action (s) – if required

AIT/IQAC/CO/18-19/IAQP

USN | 1 | A | Y | 1 | | C | 5 | | | |

Acharya Institute of Technology

Soldevanhalli, Bengaluru-560107.

INTERNAL ASSESSMENT - II [Academic Year: 2018-19]

Sub with Code: ***Computer Organization (17CS34)***

Semester/Section: ***3rd 'A'*** ***Date: 17-10-2018***

Max Marks: ***30 M*** ***Duration: 90 mins***

Q. No	Questions	CO
1 a)	Explain different approaches used to enable and disable interrupts requests from I/O devices connected to a computer system.	CO 1 4M
b)	The address bus of a computer has 16 address line A_{15-0}. If address assigned to one device is $7CA4_{(16)}$ & the address decoder for that device ignores lines A_8 & A_9, what are all the address to which this device will respond.	2M
	(OR)	
2 a)	Distinguish a subroutine from an interrupt service routine.	3M
b)	Discuss how interrupt hardware support present in a computer serves multiple I/O devices.	3M
3.	Illustrate with relevant diagrams I). How should two or more simultaneous interrupt request be handled. II). How can the processor recognize the device requesting an interrupt service.	CO 2 8M
	(OR)	
4.	Illustrate with a relevant diagram how priority of interrupts requests & fairness among requesting I/O devices can be handled while transferring data.	
5	Illustrate how bus arbitration (Centralized) selects one of many DMA controllers as bus master during DMA data transfer with a neat diagram showing sequence of signals generated during transfer of bus mastership.	CO 2 8M
	(OR)	
6	Assuming that, distributed bus arbitration mechanism for transferring the bus mastership is used by a computer system. Illustrate who wins among 3 devices A, B & C having ID's 12, 8, 6 respectively.	
7	Demonstrate how an n-bit ripple carry adder is constructed from multiple full adders. Compute total delay experienced by S_{n-1} sum bit.	CO 2 8M
	(OR)	
8	Demonstrate the working of a parallel 8-bit input interface circuit with a neat diagram, specifically how "Read-status" & "Read-data" signals are generated & used.	

Fig 2.2.c: Sample question Paper

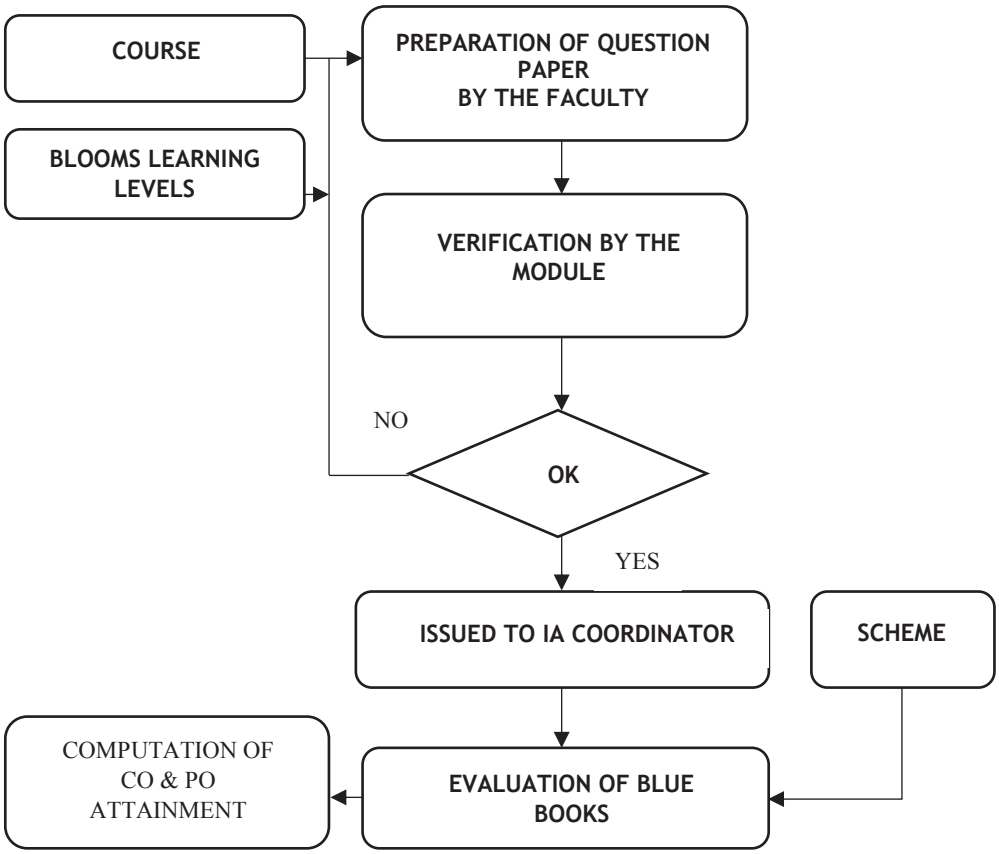


Fig 2.2.d: Internal Assessment Process

2.2.3 Quality of Students Projects.

Process

Students will carry out major project in their final year of the program. Project execution is spread across 7th and 8th semester; the process is as in Figure 2.2.e:

1. Head of the department shall identify one of the senior faculty members as Project Coordinator
2. Project Coordinator will facilitate guides allotment, progress monitoring and evaluation of the project
3. Students shall form project teams of two to four members within the stipulated period.

4. Faculty and students shall express area(s) of interest
5. Allotment of guides by considering their area of interest and students' area of interest.
6. Teams shall formulate the project problem in consent with their respective guides
7. Head of the Department and Project Coordinator constitutes Progress Assessment Committee (PAC). The composition of the PAC is as shown below:
    a. Head of Department
    b. Project Guide
    c. One of the Senior faculty
    d. Project coordinator
8. Guide shall assess the progress periodically and collects a report from the team and records his/her observations
9. Progress of the project is evaluated by the PAC in 3 phases listed below:
    a. Phase- I: Project Proposal
    b. Phase-II: Interim Evaluation
    c. Phase-III: Demonstration of working prototype and presentation

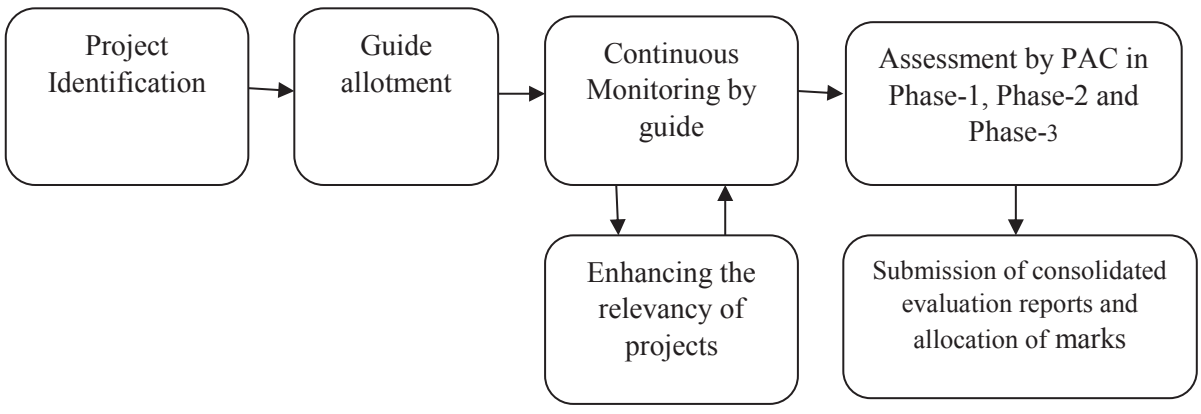


Figure 2.2.e: Project Evaluation Process.

2. Expected Outcomes

At the end of the project student shall

1. Identify and formulate the project problems through review of literature or by interacting with the industry.
2. Demonstrate ability to apply knowledge and design solutions for the engineering problems and realize the same using modern tools/technologies.
3. Demonstrate ability to manage projects, function effectively as an individual and as a member or a leader in a team.
4. Demonstrate ability to engage in self learning through effective presentations.
5. Communicate effectively and write quality technical reports.

3. Rubrics

a. Phase- I: Project Proposal
b. Phase-II: Interim Evaluation
c. Phase-III: Demonstration of working prototype and presentation

Evaluation Phases	Weightage	Evaluation Parameters

Phase-1: Project Proposal	25%	• Literature review.
		• Clarity of problem definition
		• Solution complexity.
		• Functional Requirements
		• Novelty
		• Presentation
		  ○ Understanding of concepts
		  ○ Communication skills
		  ○ Respond to questions
		• Report

Phase-2: Interim Evaluation	25%	• Design (SDLC standard)
		• Platform complexity
		• Usage of modern tools/Technologies
		• Working prototype (Initial Version)
		• Ability to work in team
		• Ability to self learn
		• Presentation
		  ○ Understanding of concepts
		  ○ Communication skills
		  ○ Respond to questions
		• Report

Phase-3: Demonstration of working prototype and presentation	50%	• Working prototype (Final Version)
		• Ability to work in team
		• Ability to self learn
		• Testing and Validation
		• Final Report
		• Paper Publication.
		• Presentation
		  ○ Understanding of concepts
		  ○ Communication skills
		  ○ Respond to questions

2.2.4 Initiatives related to Industry Interactions

The department of Computer Science & Engineering strives to keep abreast of tools and technologies used in the IT industry through frequent interactions with the industries, so that our students can become industry ready and become valued employee from the day he/she joins an organization. The following are some objectives of regularly interacting with the industries:

- ✓ Industry supported laboratories
- ✓ Faculty development by deputing them to Industries for workshops and conferences
- ✓ Invited talks – Speakers are invited from reputed organization for delivering talk on thrust areas.
- ✓ Industrial Visits
- ✓ Sponsored projects
- ✓ Internships
- ✓ Student development program
- ✓ Encouraging the students to participate in various events like hackathon, workshops and conferences

The following are some of the major initiative made by the department related to the objectives mentioned above:

- **Industry supported -Internet of Things (IOT) Laboratory:**

  CoE is established in association with the Centre for Development of Advanced Computing (C-DAC). C-DAC technologies would be able to cater to students, faculty and to research scholar. The objectives of this initiate are:

  - ✓ Encouraging the students to do major projects in the field of IoT
  - ✓ Augments Syllabus–helps students to acquire hands on experience in IoT
  - ✓ Internships/Certification from C-DAC
  - ✓ Hands-on tutorials can be designed

- ✓ CoE can be opened for Bright students during vacations for innovation
- ✓ Faculty can take up research work

- **Red Hat academy:**

  In accordance with this MOU, RED HAT ACADEMY (RHA), Plexus networks implementation partner of Red Hat will provide:

  - ✓ Industry ready Linux and Open source Curriculum and laboratory, which involves hands-on exercise, and focuses on Middleware development, Cloud technologies, System Administration and Network Security
  - ✓ Curriculum is built with input from Red Hat development, support and field consulting teams.
  - ✓ Students are given free access to the modules.
  - ✓ Students learn practical skills based on use cases from thousands of enterprise implementations.

Signing and formal exchange of MoU one 22nd October 2018

Talk by Mr. Gourav Sharma, Red Hat on "Career Opportunities with Open Source" on 22nd October 2018

- **Infosys Campus Connect:**

  The objectives of the tie-up with Infosys under Infosys campus connect initiative are

  - ✓ To provide student access to Infosys courseware, projects and case studies
  - ✓ To provide IT Industry exposure and experience to the students and faculty
  - ✓ To provide education management thought leadership

The activities under this initiative are listed below:

Sl. No	Activity	Beneficiaries
1	No. of students trained	1850 students
2	No. of students certified	98% of students
3	No. of Faculty trained	13 faculty
4	No. of visits made to Infosys	07 (students)
5	No. Faculty Enablement Program at our campus	02 (faculty)
6	No. of technical seminars	05 (students)
7	No. of Webinars	15 (students)

Table 2.2.e: Report of performance

Special Note: AIT is recognized as Advanced Partner Institution based on the performance and listed in Top 10 out of 100+ partner institutions

- **Industrial Visit** to CDAC, Bangalore by pre-final year students of CS & E on 16th March 2018. Learnt IoT related applications

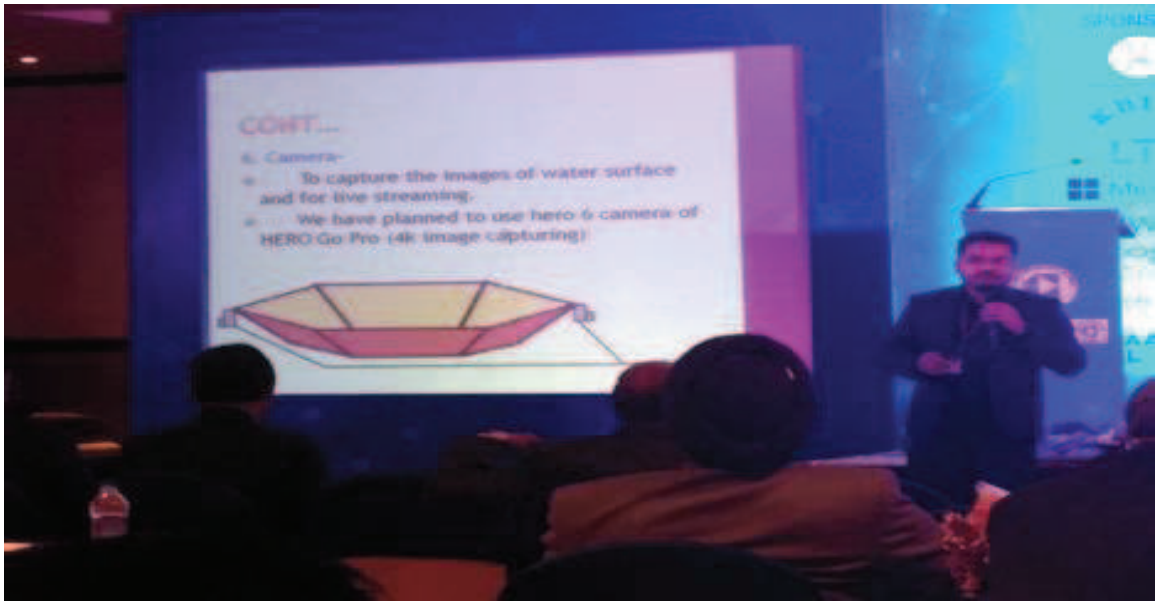
- A talk on "Storage Area Networks and Job opportunities by Miss. Shrigowri, Analyst from DELL EMC^2 to final year students on 13-08-2018.

- Mr. Murali Malladi, Director, Platform & Quality at Nutanix, Bangalore, delivered a talk on "Cloud computing and career" to students of MCA, CSE, ISE and Mechatronics on 29-08-2017

- Sponsored Project from CSI: "

"Design of a DRONE which can take off from a water body & safely land on a water body"

Guides: Mrs. Gayathri Kamath and Dr. Nagaveni



Aaditya Rathod, 5th semester student

Won cash prize of Rs 10,000/-

2.2.5 Initiatives related to Industry internship/Summer training Internship efforts:

The following major industries have been identified for deputing our students for internship, considering industries reputation, global market need, interest to bridge institute-industry gap and their location. However, many Tier-II industries are also associated with us for providing internships.

Sl. No.	Company details	Name and phone number of the contact person
1	Infosys Pvt. Ltd, Bengaluru	Mrs. SahanaKumarswamy sahana_kumaraswamy@infosys.com Mob: 9739917124
2.	CDAC–Knowledge Park, Bengaluru	Mr. Aswath Rao S aswath@cdac.in Mob: 9449086827
3.	RedHat Academy, Bengaluru	Mahesh Gummaraju Business Head Mob: 9535187967
4.	Kennametal Bengaluru	DeepakKumar Ravilla Sr.Manager-Design. deepak.ravilla@kennametal.com M +91 9886877544
5.	Centre for Artificial Intelligence and Robotics bangalore	Manimozhi Theodore director@cair.drdo.in 08025343165
6.	ABB, Bengaluru	Mr. Sudarsan S.D sudarsan.sd@in.abb.com 080-67579950
7.	HIVER, Bengaluru	Mr. Anurag anurag@grexit.com 7829497087
8.	HASHEDIN, Bengaluru	Mr. Naresh babu naresh.babu@hashedin.com 8892983892
9.	Aeronautical Development Establishment, Bengaluru	Anil, Scientist – G 080-25283188
10.	Neocortex Networks Pvt. Ltd. Residency Road, Bangalore	Mr. Vijai Simha, Director, 7702352020

University Identified for Summer Internship

Sl. No.	Name of the University	Contact Person
1	Old Dominion University, USA	Dr. Ajay Gupta, Director, Computer Resources ajay@cs.odu.edu https://www.cs.odu.edu/~**ajay**/

Internships under taken by our students:

2018-19

Sl. No.	**Name of the Industry**	**No. of students**
1.	Heavy Engineering Corporation (Ranchi)	1
2.	Hiver	1
3.	HPE	7
4.	HTG	2
5.	Igeeks Technologies	3
6.	Infidata Technologies	6
7.	Inventeron Technologies And Business Solutions Llp	1
8.	Karunadu technologies pvtlmt	3
9.	KnowxInnovatioms	1
10.	Logisys	1
11.	Mccoy Global Links Pvt Ltd	1
12.	Mindset IT Solutions	1
13.	Mpower Technologies	1
14.	Peruvaje Tech PVT LTD	1
15.	Planet Ganges PVT LTD	1
16.	Rising Tigers PVT LTD	3
17.	SVARKS Information Technology LLP	2
18.	Tata Steel	4
19.	Xcelerator	3
20.	Infosys	7
21.	Hashedin	1
22.	Planet Ganges	2
23.	Hiver	2
24.	Telerad Tech	1
	Total	56

2017-18

Sl. No.	Name of the Industry	No. of students
1.	Kennametal India Ltd .	3
2.	Infosys	12
3.	Hashedin	1
4.	AT&T Global Business Services India Pvt Ltd	1
5.	Aarika Infosystems	2
6.	Bosch India Ltd	1
7.	BSNL	2
8.	Business Toy Pvt Ltd	1
9.	CloudHost Technologies	1
10.	Dulisesom	1
11.	dWise Solutions	1
12.	DYiodes	1
13.	Flagroot Technologies	1
14.	GFactors	1
15.	GVS technology pvt ltd	3
	Total	32

2016-17

Sl. No.	Name of the Industry	No. of students
1.	DRDO ADE	1
2.	TATA Steel	1
3.	Infosys	5
4.	Jamkash Vehicles Kashmir Pvt	1
5.	TATA Technologies	1
6.	Knight Robo Corp	13
7.	Hashedin	1
	Total	23

2015-16

Sl. No.	Name of the Industry	No. of students
1.	HP	1
2.	HAL	1
3.	Wipro	3
4.	Jyopal Technologies	1
5.	Student Ambassador Program	1
6.	RTTC/BSNL	8
7.	Hashedin	1
	Total	16

Industrial visits

Sl. No.	Name of the Industry	No. of students participated	Date of Visit
1.	Center for Development of Advanced Computing (CDAC)- Knowledge Park, Bengaluru	56	16/03/2018.
2.	Haribon Aeronautics	05	08-12-2017
3.	Infosys, Bengaluru	55	22-10-2016
4.	ISRO satellite center, Bengaluru	57	08-11-2016
5.	CSIR- National Aeronautical Laboratories (NAL)	05	21-06-2017
6.	Center for Development of Advanced Computing (CDAC)- Knowledge Park, Bengaluru	102	26-08-2015
7.	ISRO satellite center, Bengaluru	59	30-09-2015
8.	SERC, IISc. Purpose: to see Cray XC40, IBM Blue gene parallel computers	76	04-09-2015

Summer Internship (Old Dominion University, USA):

Sl. No.	Year	No. of Students	Duration
1	2018-19	06	1 Month
2	2017-18	04	1 Month
3	2016-17	03	1 Month
4	2015-16	01	1 Month

CRITERION 3	Course Outcomes and Program Outcomes	120

3. COURSE OUTCOMES AND PROGRAM OUTCOMES (120)

3.1. Establish the correlation between the courses and the Program Outcomes (POs) and Program (COs) (05)

Logic Design: 10CS33 **Year of Study: 2015-16**

After the completion of the course the student will be able to:

10CS32.1	Describe fundamentals of logic gates, combinatorial circuits & sequential circuits.
10CS32.2	Illustrate simplification of Boolean expression using simplification techniques and timing behaviour in sequential circuits.
10CS32.3	Demonstrate the ability to design and describe the operation of sequential circuits
10CS32.4	Design combinational circuits using encoders and decoders

Microprocessors: 10CS45 **Year of Study: 2015-16**

After the completion of the course the student will be able to:

10CS45.1	Describe fundamentals of microprocessor 8086 architecture, programmable timer 8254, Interrupts and DMA operations.
10CS45.2	Illustrate memory addressing mechanisms and working of assembly language instructions.
10CS45.3	Write the assembly language/embedded C programs using data transfer, Arithmetic, logical string and branch instructions and also demonstrate use of procedures.
10CS45.4	Demonstrate ability to design memory interfaces and I/O interfaces

Database Management Systems: 10CS54 **Year of Study: 2016-17**

After the completion of the course the student will be able to:

10CS54.1	Understand the structure and functions of the database management system
10CS54.2	Identify different entities and establish the relationship between them in a database
10CS54.3	Demonstrate the ability to use data definition, data manipulation and data control commands.
10CS54.4	Design optimal database schema using normalization techniques

Compiler Design: 10CS63 **Year of Study: 2016-17**

After the completion of the course the student will be able to:

10CS64.1	Understand the basics of Compilers, its phases and run time environment required for compilation.
10CS64.2	Design any type of scanners/ parsers by using different parsing techniques for the given specifications.
10CS64.3	Illustrate the ability to write syntax directed translations of simple statements and the working of procedure calls.
10CS64.4	Identify the basic blocks and flow graphs for the given high-level language program to generate target code.

Java & J2EE:10CS753 **Year of Study: 2017-18**

After the completion of the course the student will be able to:

10CS753.1	Understand significance and constructs in Java programming language.
10CS753.2	Apply the concepts of OOP in designing robust Java applications
10CS753.3	Illustrate JDBC server-side programming and develop web-based applications
10CS753.4	Analyze and provide solution to business-oriented problems

System Simulation and Modelling: 10CS82 **Year of Study: 2017-18**

After the completion of the course the student will be able to:

10CS82.1	Describe the fundamentals of simulation, models, queuing systems, Random number generation and distributions of Simulation modeling.
10CS82.2	Demonstrate ability to simulate and model a real-world system using different simulation techniques.
10CS82.3	Apply different goodness of fit tests to validate system model.
10CS82.4	Analyze the different random number generation techniques and distribution of given input data by using the goodness of fit tests

Table B.3.1.1: Course Outcomes

3.1.2. CO-PO matrices of courses selected in 3.1.1 (05)

Logic Design:10CS33

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
10CS32.1	2	-	-	-	-	-	-	-	-	-	-	-
10CS32.2	-	2	1	-	-	-	-	-	-	-	-	-
10CS32.3	-	1	2	-	-	-	-	-	-	-	-	-
10CS32.4	-	2	3	-	-	-	-	-	-	-	-	-

Microprocessors: 10CS45

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
10CS45.1	1	-	-	-	-	-	-	-	-	-	-	-
10CS45.2	2	1	-	-	-	-	-	-	-	-	-	-
10CS45.3	3	2	2	-	-	-	-	-	-	-	-	-
10CS45.4	2	2	3	-	-	-	-	-	-	-	-	-

Database Management Systems: 10CS54

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
10CS54.1	2	-	-	-	-	-	-	-	-	-	-	-
10CS54.2	3	2	2	-	-	-	-	-	-	-	-	-
10CS54.3	-	-	3	-	-	-	-	-	-	-	-	-
10CS54.4	-	-	2	-	-	-	-	-	-	-	-	-

Compiler Design: 10CS64

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
10CS64.1	2	-	-	-	-	-	-	-	-	-	-	-
10CS64.2	-	2	2	-	-	-	-	-	-	-	-	-
10CS64.3	-	2	-	-	-	-	-	-	-	-	-	-
10CS64.4	2	1	2	-	-	-	-	-	-	-	-	-

Java & J2EE:10CS753

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
10CS753.1	2	-	-	-	-	-	-	-	-	-	-	-
10CS753.2	-	-	-	-	1	-	-	-	-	-	-	-
10CS753.3	3	-	-	-	1	-	-	-	-	-	-	-
10CS753.4	-	2	-	-	-	-	-	-	-	-	-	-

System Simulation & Modeling: 10CS82

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
10CS82.1	1	-	-	-	-	-	-	-	-	-	-	-
10CS82.2	1	2	-	-	-	-	-	-	-	-	-	-
10CS82.3	2	1	-	-	-	-	-	-	-	-	-	-
10CS82.4	1	2	1	-	-	-	-	-	-	-	-	-

Course outcomes to PSO mapping of the subjects selected above

Logic Design:10CS33

CO	PSO1	PSO2	PSO3
10CS32.1	2	-	-
10CS32.2	1	2	1
10CS32.3	-	-	1
10CS32.4	-	-	1

Microprocessors :10CS45

CO	PSO1	PSO2	PSO3
10CS45.1	1	-	-
10CS45.2	2	1	-
10CS45.3	-	1	-
10CS45.4	-	-	1

Database Management Systems:10CS54

CO	PSO1	PSO2	PSO3
10CS54.1	3	-	-
10CS54.2	3	1	-
10CS54.3	3	2	1
10CS54.4	3	-	-

Compiler Design :10CS64

CO	PSO1	PSO2	PSO3
10CS64.1	2	-	-
10CS64.2	3	-	-
10CS64.3	2	-	-
10CS64.4	3	-	-

Java & J2EE :10CS753

CO	PSO1	PSO2	PSO3
10CS753.1	2	-	-
10CS753.2	1	-	1
10CS753.3	1	2	2
10CS753.4	-	1	2

System Simulation & Modeling :10CS82

CO	PSO1	PSO2	PSO3
10CS82.1	1	-	1
10CS82.2	2	-	-
10CS82.3	1	1	-
10CS82.4	-	-	-

Table B.3.1.2: CO-PO-PSO Mapping

3.1.3 Program Level Course-PO matrix of all courses including first year courses

1st Semester

Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
14MAT11	Engg Mathematics-1	3	2	-	-	-	-	-	-	-	-	-	-	
14CHE12	Engg Chemistry	2	2	-	-	-	-	-	-	-	-	-	-	
14PCD13	Programming in C and Data Structures	2	1	2	-	-	-	-	-	-	-	-	1	
14CED14	Computer Aided Engg Drawing	2	1	2	2	2	-	-	-	-	-	-	-	
14ELN15	Basic Electronics	2	1	-	-	-	-	-	-	-	-	-	-	
14CPL16	C Programming Laboratory	2	2	2	1	-	-	-	-	-	-	-	-	
14CHEL17	Engg chemistry Lab	2	2	-	2	-	-	-	-	-	-	-	-	

2nd Semester

Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
14MAT21	Engg Mathematics-2	3	2	-	-	-	-	-	-	-	-	-	-	
14PHY22	Engg physics	2	2	-	-	-	-	-	-	-	-	-	-	
14CIV23	Elements of Civil Engg	2	2	-	-	-	-	-	-	-	-	-	-	
14EME24	Elements of Mechanical Engg	2	2	1	-	-	-	-	-	-	-	-	-	
14ELE25	Basic Electrical Engineering	2	1	-	-	-	-	-	-	-	-	-	-	
14WSL26	Work shop Practices Lab	2	-	2	2	1	-	-	-	2	-	-	-	
14PHYL27	Engg Physics Lab	2	2	-	2	-	-	-	-	-	-	-	-	
14CIP18	Constitution of India and Professional Ethics	-	-	-	-	-	-	-	3	-	-	-	1	

3rd Semester

Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
10MAT31	Engg Mathematics-III	3	2	-	-	-	-	-	-	-	-	-	-	
10CS32	Electronic Circuits	2	2	2	-	-	-	-	-	-	-	-	-	
10CS33	Logic Design	2	2	3	-	-	-	-	-	-	-	-	-	
10CS34	Discrete Mathematical Structures	2	2	-	-	-	-	-	-	-	-	-	-	
10CS35	Data Structures With C	2	1	1	-	-	-	-	-	-	-	-	1	
10CS36	Object Oriented Programming with C++	2	1	-	-	-	-	-	-	-	-	-	1	
10CSL37	Data Structures With C/C++ Laboratory	3	-	-	2	-	-	-	-	-	-	-	-	
10CSL38	Electronic Circuits & Logic Design Laboratory	2	2	2	2	2	-	-	-	-	-	-	-	

4th Semester

Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
10MAT41	Engg Mathematics-Iv	3	2	-	-	-	-	-	-	-	-	-	-	
10CS42	Graph Theory and Combinotrics	3	2	-	-	-	-	-	-	-	-	-	-	
10CS43	Design and Analysis of Algorithms	3	2	2	-	-	-	-	-	-	-	-	-	
10CS44	Unix And Shell Programming	2	-	-	-	1	-	-	-	-	-	-	1	
10CS45	Microprocessors	2	2	2	-	-	-	-	-	-	-	-	-	
10CS46	Computer Organization	1	1	2	-	-	-	-	-	-	-	-	-	
10CSL47	Design and Analysis of Algorithms Laboratory	2	2	2	2	-	-	-	-	-	-	-	-	
10CSL48	Microprocessor Laboratory	3	2	2	2	2	-	-	-	-	-	-	-	

5th Semester

Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
10IS51	Software Engineering	1	-	1	-	-	1		2	1		1		
10CS52	System Software	2	1	-	-	-	-	-	-	-	-	-	-	
10CS53	Operating Systems	3	2	-	-	-	-	-	-	-	-	-	-	
10CS54	Database Management Systems	3	2	2	-	-	-	-	-	-	-	-	-	
10CS55	Computer Networks - I	2	2	1	-	-	-	-	-	-	-	-	-	
10CS56	Formal Languages and Automata Theory	2	2	2	-	-	-	-	-	-	-	-	-	
10CSL57	Database Applications Laboratory	3	1	1	2	2	-	-	-	-	-	-	-	
10CSL58	SS& OS Lab	3	2	-	2	-	-	-	-	-	-	-	-	

6th Semester

Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
10AL61	Management and Entrepreneurship	-	-	-	-	-	2	2	-	2	-	2	-	
10CS62	Unix System Programming	2	-	-	-	-	-	-	-	-	-	-	-	
10CS63	Compiler Design	2	2	2	-	-	-	-	-	-	-	-	-	
10CS64	Computer Networks-II	2	2	1	-	-	-	-	-	-	-	-	-	
10CS65	Computer Graphics and Visualization	2	-	1	-	1	-	-	-	-	-	-	-	
10CS661	Operations Research	2	3	1		-	-	-	-	-	-	2	-	
10CS663	Data Compression	-	2	-	-	1	-	-	-	-	-	-	-	
10CS664	Pattern Recognition	3	2	-	-	-	-	-	-	-	-	-	-	
10CS665	Stochastic Models and Applications	3	-	2	-	-	-	-	-	-	-	-	-	
10CS666	Programming Languages	-	2	-	-	-	-	-	-	-	-	-	-	
10CSL67	Computer Graphics and Visualization Lab	2	1	2	2	2	-	-	-	2	2	2	2	
10CSL68	Unix Systems Programming and CD lab	2	-	2	2	2	-	-	-	-	-	-	-	

7th Semester

Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
10CS71	Object-Oriented Modeling And Design	1	2	2	-	-	-	-	-	-	-	-	-	
10CS72	Embedded Computing Systems	2	1	2	-	-	-	-	-	-	-	-	-	
10CS73	Programming the Web	2	1	2	-	-	-	-	-	-	-	-	1	
10CS74	Advanced Computer Architectures	2	2	1	-	-	-	-	-	-	-	-	-	
10CS751	Advanced DBMS	-	2	1	-	-	-	-	-	-	-	-	-	
10CS753	Java and J2EE	3	2	-	-	1	-	-	-	-	-	-	-	
10CS754	Multimedia Computing	1	1	-	-	-	-	-	-	-	-	-	-	
10CS755	Data Warehousing and Data Mining	3	2	-	-	-	-	-	-	-	-	-	-	
10CS756	Neural Networks	-	2	2	-	-	-	-	-	-	-	-	-	
10CS761	C# Programming And .Net	2	2	-	-	-	-	-	-	-	-	-	-	
10CS763	Game Theory	3	1	2	-	-	-	-	-	-	-	-	-	
10CS764	Artificial Intelligence	3	-	2	-	-	-	-	-	-	-	-	-	
10CS765	Storage Area Networks	2	2	-	-	-	-	-	-	-	-	-	-	
10CS766	Fuzzy Logic	3	-	2	-	-	-	-	-	-	-	-	-	
10CSL77	Networks Laboratory	2	2	1	1	2								
10CSL78	Web Programming Laboratory	3	1	2	2	3	-	-	-	-	-	-	-	

8th Semester

Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13
10IS81	Software Architectures	2	1	1	-	-	-	-	-	-	-	-	-	
10CS82	System Modeling And Simulation	2	2	1	-	-	-	-	-	-	-	-	-	
10CS831	Wireless Networks and Mobile Computing	1	-	-	-	-	-	-	-	-	-	-	-	
10CS832	Web 2.0 And Rich Internet Applications	2	1	-	-	2	-	-	-	-	-	-	-	
10CS834	Network Management Systems	2	1	-	-	-	-	-	1	-	-	-	-	
10CS835	Information and Network Security	2	1	1	-	-	-	-	-	-	-	-	-	
10CS836	Microcontrollers and Embedded Systems;	2	-	1	-	-	-	-	-	-	-	-	-	
10CS841	Adhoc Networks	1	2	-	-	-	-	-	-	-	-	-	-	
10CS842	Software Testing	2	-	-	-	-	-	-	-	-	-	1	-	
10CS843	Arm Based System Design	2	-	-	-	-	-	-	-	-	-	-	-	
10CS844	Services Oriented Architecture	-	-	-	-	-	-	-	-	-	-	-	-	
10CS845	Clouds, Grids, And Clusters	2	-	-	-	2	-	-	-	-	-	-	-	
10CS846	Multi-Core Architecture and Programming	-	1	-	-	2	-	-	-	-	-	-	-	
10CS85	Project	2	2	2	2	3	1	-	2	2	2	2	2	
10CS86	Seminar	-	2	-	-	1	-	-	-	2	2	-	2	

Program level Course-PSO matrix of all courses including first year courses

1st Semester

SUBJECT CODE	SUBJECT NAME	PSO1	PSO2	PSO3
14MAT11	Engg Mathematics-1	-	-	-
14CHE12	Engg Chemistry	-	-	-
14PCD13	C Programming for Problem Solving	2	1	-
14CED14	Computer Aided Engg Drawing	-	-	-
14ELN15	Basic Electronics	-	-	-
14CPL16	C Programming Laboratory	2	1	2
14CHEL17	Engg Chemistry Lab	-	-	-
14CIV18	Environmental Studies	-	-	-

2nd Semester

SUBJECT CODE	SUBJECT NAME	PSO1	PSO2	PSO3
14MAT21	Engg Mathematics-2	-	-	-
14PHY22	Engg physics	-	-	-
14CIV23	Elements of Civil Engg	-	-	-
14EME24	Elements of Mechanical Engg	-	-	-
14ELE25	Basic Electrical Engineering	-	-	-
14WSL26	Work shop Practices Lab	-	-	-
14PHYL27	Engg Physics Lab	-	-	-
14CIP18	Constitution of India and Professional Ethics	-	-	-

3rd Semester

SUBJECT CODE	SUBJECT NAME	PSO1	PSO2	PSO3
10MAT31	Engg Mathematics-III	1	-	-
10CS32	Electronic Circuits	2	-	1
10CS33	Logic Design	2	-	1
10CS34	Discrete Mathematical Structures	1	2	-
10CS35	Data Structures With C	1	2	-
10CS36	Object Oriented Programming with C++	1	3	-
10CSL37	Data Structures With C/C++ Laboratory	1	2	1
10CSL38	Electronic Circuits & Logic Design Laboratory	1	2	-

4th Semester

SUBJECT CODE	SUBJECT NAME	PSO1	PSO2	PSO3
10MAT41	Engg Mathematics-IV	1	-	-
10CS42	Graph Theory and Combinatorics	1	-	-
10CS43	Design and Analysis of Algorithms	2	2	1
10CS44	Unix And Shell Programming	3	-	1
10CS45	Microprocessors	2	1	1
10CS46	Computer Organization	3	-	1
10CSL47	Design and Analysis of Algorithms Laboratory	1	2	2
10CSL48	Microprocessor Laboratory	1	2	1

5th Semester

SUBJECT CODE	SUBJECT NAME	PSO1	PSO2	PSO3
10IS51	Software Engineering	-	2	3
10CS52	System Software	2	-	-
10CS53	Operating Systems	2	-	-
10CS54	Database Management Systems	3	1	1
10CS55	Computer Networks – I	3	-	-
10CS56	Formal Languages and Automata Theory	2	-	-
10CSL57	Database Applications Laboratory	1	2	2
10CSL58	Ss & OS Lab	1	-	-

6th Semester

SUBJECT CODE	SUBJECT NAME	PSO1	PSO2	PSO3
10AL61	Management and Entrepreneurship	-	-	-
10CS62	Unix System Programming	2	1	1
10CS63	Compiler Design	3	-	-
10CS64	Computer Networks-II	3	-	-
10CS65	Computer Graphics and Visualization	1	2	1
10CS661	Operations Research	2	1	-
10CS662	Signal and System	3	-	-
10CS663	Data Compression	2	1	-
10CS664	Pattern Recognition	2	2	2
10CS665	Stochastic Models and Applications	2	-	-
10CS666	Programming Languages	1	-	-
10CSL67	Computer Graphics and Visualization Lab	2	2	3
10CSL68	Unix Systems Programming And CD	2	2	2

7th Semester

SUBJECT CODE	SUBJECT NAME	PSO1	PSO2	PSO3
10CS71	Object-Oriented Modeling and Design	-	1	1
10CS72	Embedded Computing Systems	2	1	1
10CS73	Programming the Web	2	2	3
10CS74	Advanced Computer Architectures	2	-	1
10CS751	Advanced DBMS	3	2	1
10CS752	Digital Signal Processing	2	-	-
10CS753	Java and J2EE	1	2	2
10CS754	Multimedia Computing	1	-	3
10CS755	Data Warehousing and Data Mining	3	2	-
10CS756	Neural Networks	3	-	1
10CS761	C# Programming & .Net	2	2	-
10CS762	Digital Image Processing	2	-	-
10CS763	Game Theory	-	1	-
10CS764	Artificial Intelligence	-	2	1
10CS765	Storage Area Networks	2	-	-
10CS766	Fuzzy Logic	-	-	-
10CSL77	Networks Laboratory	1	2	-
10CSL78	Web Programming Laboratory	1	1	3

8th Semester

SUBJECT CODE	SUBJECT NAME	PSO1	PSO2	PSO3
10IS81	Software Architectures	2	-	1
10CS82	System Modeling and Simulation	2	1	1
10CS831	Wireless Networks and Mobile Computing	2	-	-
10CS832	Web 2.0 And Rich Internet Applications	-	-	3
10CS833	VLSI Design and Algorithms	2	-	-
10CS834	Network Management Systems	1	2	-
10CS835	Information and Network Security	1	2	-
10CS836	Microcontrollers and Embedded Systems;	-	-	-
10CS841	Adhoc Networks	2	-	-
10CS842	Software Testing	2	-	1
10CS843	Arm Based System Design	2	-	1
10CS844	Services Oriented Architecture	-	2	-
10CS845	Clouds, Grids, And Clusters	-	2	1
10CS846	Multi-Core Architecture and Programming	2	-	-
10CS85	Project	3	2	3
10CS86	Seminar	2	2	-

Table B.3.1.3: Course-PO-PSO matrix

3.2 Attainment of Course Outcomes (50)

3.2.1. Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

The assessment process used to gather data to evaluate course outcomes has both direct and indirect measures, the measures are listed below and weightage for every measure is shown in Table B.3.2.1:

1. Direct Measures
    a. Marks of Continuous Internal Assessment Examinations for theory courses, seminars and projects
    b. Marks of continuous evaluation & Internal Assessment Examination in laboratory courses
    c. Marks of Assignments
    d. Marks obtained in semester end university examination
2. Indirect Measure
    a. Course End Survey

Assessment Tools			Weightage	Frequency	Responsibility
Direct Assessment	Continuous Internal Evaluation (CIE)	Theory Internal Assessment	60%	Thrice in a semester	Department level
		Lab IA		Continuous Evaluation + Lab IA once in a semester	Department level
		Final year project		In 7th & 8th Semester	Department level
		Technical Seminar		In 8th Semester	Department level
	Semester End Exam (SEE)		30%	Once at the end of the semester	University level
Indirect Assessment	Course End Survey		10%	At the end of the semester	Department level

Table 3.2.1: Assessment Tool

3.2.2. Record the attainment of Course Outcomes of all courses with respect to set attainment levels (40)

Set attainment: 75% **Data shown is for year of study: 2014-2018**

Course Code	Course Outcome	CO attainment level	CO Percentage
14MAT11	14MAT11.1	2.42	80.73
	14MAT11.2	1.85	61.71
	14MAT11.3	1.86	62.07
	14MAT11.4	2.48	82.76
	14MAT11.5	2.52	84.08
14PHY12	14PHY12.1	2.32	77.21
	14PHY12.2	2.35	78.45
	14PHY12.3	2.13	70.91
14CIV13	14CIV13.1	2.58	86.03
	14CIV13.2	2.46	81.91
	14CIV13.3	2.49	82.99
	14CIV13.4	2.56	85.23
14EME14	14EME14.1	2.36	78.62
	14EME14.2	2.12	70.82
	14EME14.3	2.07	69.02
14ELE15	14ELE15.1	2.41	80.28
	14ELE15.2	2.42	80.63
	14ELE15.3	2.26	75.22
	14ELE15.4	2.13	71.15
14WSL16	14WSL16.1	2.81	93.72
	14WSL16.2	2.87	95.78
	14WSL16.3	2.83	94.32
14PHYL17	14PHYL17.1	2.75	91.70
	14PHYL17.2	2.76	92.07
	14PHYL17.3	2.72	90.80
14CIP18	14CIP18.1	2.46	81.93
	14CIP18.2	2.54	84.70
	14CIP18.3	2.55	84.90
	14CIP18.4	2.50	83.47
	14CIP18.5	2.47	82.33
14MAT21	14MAT21.1	2.33	77.57
	14MAT21.2	2.29	76.22
	14MAT21.3	1.75	58.40

	14MAT21.4	1.32	43.88
	14MAT21.5	1.85	61.54
14CHE22	14CHE22.1	2.38	79.18
	14CHE22.2	2.25	75.05
	14CHE22.3	2.34	78.08
	14CHE22.4	1.75	58.21
	14CHE22.5	1.53	51.05
14PCD23	14PCD23.1	2.81	93.60
	14PCD23.2	2.74	91.20
	14PCD23.3	2.48	82.57
	14PCD23.4	2.64	87.87
	14PCD23.5	2.73	90.93
14CED24	14CED24.1	2.63	87.73
	14CED24.2	2.16	72.03
	14CED24.3	2.08	69.23
14ELN25	14ELN25.1	2.31	77.10
	14ELN25.2	2.20	73.30
	14ELN25.3	2.37	79.10
	14ELN25.4	2.03	67.80
14CPL26	14CPL26.1	2.80	93.42
	14CPL26.2	2.84	94.69
	14CPL26.3	2.86	95.29
	14CPL26.4	2.84	94.79
14CHEL27	14CHEL27.1	2.83	94.23
	14CHEL27.2	2.86	95.40
	14CHEL27.3	2.87	95.57
14CIV28	14CIV28.1	2.84	94.60
	14CIV28.2	2.88	95.90
	14CIV28.3	2.83	94.20
	14CIV28.4	2.82	94.10
10MAT31	10MAT31.1	2.12	71
	10MAT31.2	2.28	76
	10MAT31.3	2.31	77
	10MAT31.4	2.43	81
	10MAT31.5	2.44	81
	10MAT31.6	2.54	85
10CS32	10CS32.1	2.31	77
	10CS32.2	2.31	77

	10CS32.3	2.34	78
	10CS32.4	2.32	77
	10CS32.5	2.29	76
10CS33	10CS33.1	1.46	49
	10CS33.2	1.59	53
	10CS33.3	1.40	47
	10CS33.4	1.32	44
10CS34	10CS34.1	2.22	74
	10CS34.2	1.91	64
	10CS34.3	1.88	63
	10CS34.4	1.96	65
10CS35	10CS35.1	2.09	70
	10CS35.2	2.03	68
	10CS35.3	1.93	64
	10CS35.4	1.98	66
10CS36	10CS36.1	1.86	62
	10CS36.2	1.92	64
	10CS36.3	1.86	62
	10CS36.4	1.93	64
10CSL37	10CSL37.1	1.96	65
	10CSL37.2	2.77	92
	10CSL37.3	2.80	93
	10CSL37.4	2.79	93
10CSL38	10CSL38.1	2.63	88
	10CSL38.2	2.64	88
	10CSL38.3	2.62	87
	10CSL38.4	2.61	87
10CS41	10CS41.1	2.48	83
	10CS41.2	2.26	75
	10CS41.3	2.24	75
	10CS41.4	2.21	74
	10CS41.5	2.59	86
	10CS41.6	2.44	81
10CS42	10CS42.1	2.14	71
	10CS42.2	2.17	72
	10CS42.3	2.40	80
	10CS42.4	2.32	77
	10CS42.5	2.39	80

10CS43	10CS43.1	2.36	79
	10CS43.2	2.18	73
	10CS43.3	2.42	81
	10CS43.4	2.12	71
10CS44	10CS44.1	2.45	82
	10CS44.2	1.93	64
	10CS44.3	2.09	70
	10CS44.4	2.11	70
10CS45	10CS45.1	1.97	66
	10CS45.2	1.81	60
	10CS45.3	2.20	73
	10CS45.4	2.40	80
10CS46	10CS46.1	2.40	80
	10CS46.2	2.27	76
	10CS46.3	1.89	63
	10CS46.4	1.87	62
10CSL47	10CSL47.1	2.78	93
	10CSL47.2	2.78	93
	10CSL47.3	2.76	92
10CSL48	10CSL48.1	2.72	91
	10CSL48.2	2.73	91
	10CSL48.3	2.68	89
	10CSL48.4	2.67	89
10CS51	10CS51.1	2.37	79
	10CS51.2	2.38	79
	10CS51.3	2.21	74
	10CS51.4	2.22	74
10CS52	10CS52.1	2.51	84
	10CS52.2	2.52	84
	10CS52.3	2.11	70
	10CS52.4	1.93	64
10CS53	10CS53.1	2.55	85
	10CS53.2	2.31	77
	10CS53.3	2.16	72
	10CS53.4	2.35	78
10CS54	10CS53.1	1.74	58
	10CS53.2	1.77	59
	10CS53.3	1.96	65

	10CS53.4	1.99	66
10CS55	10CS55.1	2.12	71
	10CS55.2	2.11	70
	10CS55.3	1.99	66
	10CS55.4	2.17	72
10CS56	10CS56.1	2.57	86
	10CS56.2	2.14	71
	10CS56.3	2.17	72
	10CS56.4	2.62	87
	10CS56.5	2.56	85
10CSL57	10CSL57.1	2.83	94
	10CSL57.2	2.81	94
	10CSL57.3	2.81	94
	10CSL57.4	2.85	95
10CSL58	10CSL58.1	2.87	96
	10CSL58.2	2.88	96
	10CSL58.3	2.90	97
10CS61	10CS61.1	2.56	85
	10CS61.2	2.50	83
	10CS61.3	2.48	83
	10CS61.4	2.55	85
	10CS61.5	2.52	84
10CS62	10CS62.1	2.67	89
	10CS62.2	2.54	85
	10CS62.3	2.10	70
	10CS62.4	2.50	83
10CS63	10CS63.1	2.54	85
	10CS63.2	2.14	71
	10CS63.3	2.47	82
	10CS63.4	2.33	78
10CS64	10CS64.1	1.95	65
	10CS64.2	1.62	54
	10CS64.3	2.21	74
10CS65	10CS65.1	2.55	85
	10CS65.2	2.53	84
	10CS65.3	2.37	79
	10CS65.4	2.38	79
10CS661	10CS661.1	2.69	90

	10CS661.2	2.23	74
	10CS661.3	2.24	75
	10CS661.4	2.74	91
10CSL67	10CSL67.1	2.80	93
	10CSL67.2	2.78	93
	10CSL67.3	2.77	92
	10CSL67.4	2.75	92
	10CSL67.5	2.69	90
10CSL68	10CSL68.1	2.93	98
	10CSL68.2	2.91	97
	10CSL68.3	2.91	97
	10CSL68.4	2.91	97
10CS71	10CS71.1	2.44	81
	10CS71.2	2.27	76
	10CS71.3	2.45	82
10CS72	10CS72.1	2.66	89
	10CS72.2	2.61	87
	10CS72.3	2.64	88
10CS73	10CS73.1	2.60	87
	10CS73.2	2.52	84
	10CS73.3	2.62	87
10CS74	10CS74.1	2.63	88
	10CS74.2	2.36	79
	10CS74.3	2.47	82
	10CS74.4	2.40	80
10CS75	10CS75.1	2.69	90
	10CS75.2	2.56	85
	10CS75.3	2.52	84
	10CS75.4	2.48	83
10CS76	10CS76.1	2.59	86
	10CS76.2	2.11	70
	10CS76.3	1.89	63
	10CS76.4	2.12	71
10CSL77	10CSL77.1	2.81	94
	10CSL77.2	2.80	93
	10CSL77.3	2.78	93
10CSL78	10CSL78.1	2.86	95
	10CSL78.2	2.83	94

	10CSL78.3	2.79	93
10CS81	10CS81.1	2.35	78
	10CS81.2	2.42	81
10CS82	10CS82.1	2.50	83
	10CS82.2	2.57	86
	10CS82.3	2.60	87
	10CS82.4	2.44	81
10CS835	10CS835.1	2.64	88
	10CS835.2	2.60	87
	10CS835.3	2.66	89
10CS841	10CS841.1	2.63	88
	10CS841.2	2.65	88
10CS85	10CS85.1	2.97	99
	10CS85.2	2.97	99
	10CS85.3	2.97	99
	10CS85.4	2.97	99
	10CS85.5	2.97	99
10CS86	10CS86.1	2.94	98
	10CS86.2	2.94	98
	10CS86.3	2.94	98

3.3. Attainment of Program Outcomes and Program Specific Outcomes (50)

3.3.1. Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)

Evaluation of attainment of PO's and PSO's is based on direct and indirect assessment tools. Direct assessment of PO's and PSO's is based on students' performance in internal assessments and university exams. Indirect assessment is based on exit survey of the particular outgoing batch of students. The attainment of POs and PSOs is evaluated for every batch of students completeing the program. The table below shows the weightage assigned to direct and indirect measures.

Assessment Tools		Weightage	Frequency	Responsibility
Direct Assessment	Course Outcomes Attainment	80%	End of the semester	Department level
Indirect Assessment	Exit Survey	20%	At the end of the program	Department level

Computation of attainment of COs

The process of attainment of COs, POs and PSOs starts from writing appropriate COs for each course of the program from first year to fourth year. The course outcomes are written by the respective faculty member using action verbs of learning levels suggested by Bloom's taxonomy and then, a correlation is established between COs, POs and PSOs in a scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium) and 3 being substantial (high). A mapping matrix is prepared in this regard for every course in the program including the elective courses offered. The tables 3.1.1 and 3.1.2 show the COs and the CO-PO mapping matrix for a sample course in each semester. The CO attainment levels can be measured based on the results of the internal assessment and external examination conducted by the university. This is a form of direct measurement of attainment. As per the university norms three internal assessment tests are conducted for each course in a semester. In each test, the percentage of students who achieve a set target for the COs is computed. After the three tests, the average of these percentages is computed to decide the attainment level. The following are set threshold for arriving at an attainment level:

Level 1: If a student scores less than or equal to 40% of maximum marks

Level 2: If a student scores 41% to 59% of maximum marks

Level 3: If a student scores 60% or more than 60% of maximum marks

Thus, the average of percentage of students attaining all the stated COs are computed and CO wise attainment table is prepared. Similarly, after the declaration of the university results, the

percentage of students who attained the COs is computed and the levels shown above are used for the computation. The over all attainment for each course outcome is computed as shown in the table 3.2.1.

The above procedure of computing overall CO attainment is to be repeated for each course from first year to final year (including opted electives, project work and technical seminar) in order to enable computation of PO and PSO attainment levels.

Computation of Attainment of POs & PSOs

Attainment for particular Program Outcome/Program Specific Outcome is calculated by taking weighted average of all course outcome attainment addressing that particular PO & PSO (Refer to tables 3.1.2 & 3.1.3). Similar calculation is repeated for all the POs & PSOs and for every course. The POs/PSOs attainment for a batch of students is computed by taking average of PO attainments/PSO attainments of all the courses.

Indirect Assessment

Exit Survey

A questionnaire is prepared in one of the meetings of DAC, which contains a set of questions relevant to the program outcomes/graduate attributes and also questions relevant to Program Specific Outcomes. This questionnaire is circulated among the graduating students to collect their feedback on the POs/PSOs. The questions are to be rated by the outgoing batch in the range of 1 to 3 and the exit survey attainment is calculated as done for COs. Finally, POs attainment/PSOs attainment of a particular batch is calculated by giving 80% weightage to the direct attainment and 20% weightage to exit survey.

Exit survey questions

1. **Engineering knowledge**: Are you capable of applying your knowledge to solve Engineering problems?

2. **Problem analysis**: Will you be able to Identify/Formulate/Analyze a solution for a given Engineering problem?
3. **Design/development of solutions**: Will you be able to design/Develop a solution or a system for a given Engineering problem with appropriate consideration for the benefit of the Society?
4. **Conduct investigations of complex problems** Are you capable of solving research-based problems including analysis/interpretation/Synthesis of data with the knowledge gained by the courses of your program?
5. **Modern tool usage**: Can you apply appropriate techniques to solve a complex Engineering activity using modern tools?
6. **The engineer and society**: Are you able to apply/assess your knowledge related to engineering practice for the societal and Environmental issues?
7. **Environment and sustainability**: Are you able to understand the impact of engineering solutions for sustainable development of the society?
8. **Ethics**: Are you trained enough about ethics and commitments /norms of engineering practice?
9. **Individual and team work**: Can you manage a team or work as an individual in a multidisciplinary team?
10. **Communication**: Are you confident of writing reports/design documents and present effectively.
11. **Project management and finance**: Can you manage finances, deadlines and HR resources when working for a project?
12. **Life-long learning**: Are you adequately prepared to enhance your knowledge and engage in self-learning?

3.3.2. Provide results of evaluation of each PO & PSO (40)

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
14MAT11	2.25	2.25	-									
14PHY12	2.28	2.11										
14CIV13	2.49	2.44										
14EME14	2.15	2.12	2.04									
14ELE15	2.27	2.26										
14WSL16	2.8		2.81	2.81	2.8				2.79			
14PHYL17	2.71	2.72		2.7								
14CIP18								2.39				2.36
14MAT21	1.9	1.9										
14CHE22	1.86	2.26										
14PCD23	2.7	2.77	2.6									2.7
14CED24	2.33	2.24	2.33	2.33	2.33							
14ELN25	2.21	2.05										
14CPL26	2.8	2.81	2.8	2.81								
14CHEL27	2.84	2.86		2.84								
14CIV28						2.85	2.86					
10MAT31	2.33	2.33										
10CS32	2.2	2.20	2.21									
10CS33	1.53	1.52	1.48									
10CS34	2.00	1.95										
10CS35	2.03	-	1.93	1.86	1.93							
10CS36	1.99	2.01										1.98
10CSL37	2.75			2.76								
10CSL38	2.58	2.57	2.58	2.58	2.58							
10MAT41	2.33	2.33										
10CS42	2.22	2.22										

10CS43	2.28	2.27	2.21									
10CS44	2.11				2.15							2.00
10CS45	2.1	2.1	2.26									
10CS46	2.11	2.18	1.87									
10CSL47	2.75	2.75	2.74	2.75								
10CSL48	2.77	2.77	2.76	2.77								
10CS51	2.29		2.23			2.36		2.36	2.36		2.27	
10CS52	2.37	2.27										
10CS53	2.38	2.35										
10CS54	1.76	1.76	1.90									
10CS55	2.04	2.11	1.97									
10CS56	2.28	2.45	2.41									
10CSL57	2.81	2.83	2.81	2.82	2.82							
10CSL58	2.88	2.88		2.88								
10CS61						2.43	2.45		2.41		2.47	
10CS62	2.43											
10CS63	2.35	2.25	2.18									
10CS64	1.92	-	2.21									
10CS65	2.32		2.29		2.29							
10CS66	2.34	2.27	2.27								2.27	
10CSL67	2.74	2.75	2.70	2.77	2.73				2.70	2.7	2.70	2.70
10CSL68	2.91		2.91	2.91	2.91							
10CS71	2.39	2.25	2.38									
10CS72	2.61	2.60	2.60									
10CS73	2.51	2.50	2.50									2.51
10CS74	2.46	2.43	2.38									
10CS75	2.53	2.44			2.49							
10CS76	2.17	2.02										
10CSL77	2.77	2.78	2.79	2.78	2.79							

10CSL78	2.82	2.82	2.82	2.82	2.82							
10CS81	2.35	2.37	2.37									
10CS82	2.51	2.49	2.41									
10CS83	2.60	2.62	2.56									
10CS84	2.58	2.58										
10CS85	2.97	2.97	2.97	2.97	2.97	2.97		2.97	2.97	2.97	2.97	2.97
10CS86		2.94			2.94				2.94	2.94		2.94
Sum of Levels	138.63	123.72	84.13	44.23	37.32	10.61	5.31	7.72	16.17	8.61	12.68	22.04
No of Subjects mapped	58	52	35	16	14	4	2	3	6	3	5	9
Direct Attainment	2.39	2.38	2.40	2.76	2.67	2.65	2.66	2.57	2.70	2.87	2.54	2.45
Percentage	79.67	79.31	80.12	92.15	88.86	88.42	88.50	85.78	89.83	95.67	84.53	81.63
Indirect Attainment	2.5	2	1.5	1	1.4	1.8	1.5	1.5	1.2	2.2	1.6	1.3
Percentage	83.33	66.67	50.00	33.33	46.67	60.00	50.00	50.00	40.00	73.33	53.33	43.33
Total PO Attainment	2.41	2.30	2.22	2.41	2.41	2.48	2.42	2.36	2.40	2.74	2.35	2.22
Percentage	**80.40**	**76.78**	**74.10**	**80.38**	**80.42**	**82.73**	**80.80**	**78.62**	**79.87**	**91.20**	**78.29**	**73.97**

Table 3.3.2

PSO Attainment

Course Code	PSO1	PSO2	PSO3
14MAT11	-	-	-
14PHY12	-	-	-
14CIV13	-	-	-
14EME14	-	-	-
14ELE15	-	-	-
14WSL16	-	-	-
14PHYL17	-	-	-
14CIP18	-	-	-
14MAT21	-	-	-
14CHE22	-	-	-
14PCD23	2.74	2.67	-
14CED24	-	-	-
14ELN25	-	-	-
14CPL26	2.81	2.82	2.83
14CHEL27	-	-	-

14CIV28	-	-	-
10MAT31	2.33	-	-
10CS32	2.2	-	2.24
10CS33	1.57	-	1.52
10CS34	2.00	2.01	-
10CS35	1.88	1.94	-
10CS36	1.97	2.01	-
10CSL37	2.76	2.74	2.76
10CSL38	2.57	2.57	-
10MAT41	2.33	-	-
10CS42	2.22	-	-
10CS43	2.26	2.29	2.30
10CS44	2.12	-	2.07
10CS45	1.87	1.99	2.33
10CS46	2.05	-	1.97
10CSL47	2.75	2.75	2.74
10CSL48	2.67	2.71	2.67
10CS51	-	2.29	2.29
10CS52	2.37	-	-
10CS53	2.37	-	-
10CS54	1.85	1.87	1.92
10CS55	2.06	-	-
10CS56	2.40	-	-
10CSL57	2.82	2.82	2.81
10CSL58	2.89	-	-
10CS61	-	-	-
10CS62	2.56	2.30	2.48
10CS63	2.27	-	-
10CS64	1.90	-	-
10CS65	2.41	2.29	2.29
10CS66	2.41	2.27	-
10CSL67	2.79	2.73	2.70
10CSL68	2.91	2.91	2.91
10CS71	-	2.32	2.39
10CS72	2.61	2.60	2.60
10CS73	2.52	2.52	2.50
10CS74	2.42	-	2.50
10CS75	2.58	2.46	2.47
10CS76	2.14	1.99	-
10CSL77	2.78	2.79	-
10CSL78	2.78	2.78	2.82
10CS81	2.33	-	2.37

10CS82	2.51	2.54	2.46
10CS83	2.60	2.58	-
10CS84	2.58	-	-
10CS85	2.97	2.97	2.97
10CS86	2.94	2.94	-
Sum of Levels	108.87	74.47	63.91
No of Subjects mapped	45	30	26
Direct Attainment	2.42	2.48	2.46
Percentage	80.64	82.74	81.94
Indirect Attainment	2.5	2	1.5
Percentage	83.33	66.67	50.00
Total PSO Attainment	2.44	2.39	2.27
	PSO1	PSO2	PSO3
Percentage	81.18	79.53	75.55

Table 3.3.2: PSO Attainment

CRITERION 4	Students Performance	150

4. STUDENTS' PERFORMANCE (150)

Item	2018-19	2017-18	2016-17
Sanctioned intake of the program (N)	120	120	120
Total number of students admitted in first year minus number of students migrated to other programs/institutions plus no. of students migrated to this program (N1)	120	116	118
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	-	27	26
Separate division students, if applicable (N3)	-	-	-
Total number of students admitted in the Program (N1 + N2 + N3)	120	143	144

Table B.4a

Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)			
		I year	II year	III year	IV year
2018-19	120 (120 + 0 + 0)				
2017-18	143 (116 + 27 + 0)	81			
2016-17	144 (118 + 26 + 0)	57	55 (52 + 3)		
2015-16	139 (113 + 26 + 0)	77	53 (53 + 0)	46 (46 + 0)	
2014-15	141 (116 + 25 + 0)	72	80 (67 + 13)	75 (63 + 12)	75 (63 +12)
2013-14	141 (117 + 24 + 0)	72	73 (65 + 8)	67 (60 + 7)	66 (60 + 6)
2012-13	139 (115 + 24 + 0)	64	67 (59 + 8)	66 (58 + 8)	65 (57 + 8)

Table B.4 b

Year of entry	N1 + N2 + N3 (As defined above)	Number of students who have successfully graduated (Students with backlog in stipulated period of study)			
		I year	II year	III year	IV year
2018-19	120 (120 + 0 + 0)				
2017-18	143 (116 + 27 + 0)	103			
2016-17	144 (118 + 26 + 0)	101	110 (89 + 21)		
2015-16	139 (113 + 26 + 0)	102	108 (87 + 21)	105 (85 + 20)	
2014-15	141 (116 + 25 + 0)	104	114 (92 + 22)	109 (89 + 20)	97 (78 + 19)
2013-14	141 (117 + 24 + 0)	112	118 (100 + 18)	104 (91 + 13)	85 (74 + 11)
2012-13	139 (115 + 24 + 0)	106	123 (103 + 20)	114 (97 + 17)	103 (89+14)

Table B.4c

4.1. Enrolment Ratio (20)

Year	Number of Students admitted (N1)	Sanctioned Intake (N)	Enrolment Ratio
2018 -19	120	120	1
2017-18	116	120	0.96
2016-17	118	120	0.98
		Average	0.98

Average Enrolment Ratio= 354/360 = 98.3 %

4.2. Success Rate in the stipulated period of the program (40)

4.2.1. Success rate without backlogs in any semester/year of study (25)

SI= (Number of students who have graduated from the program without backlog)/ (Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = Mean of Success Index (SI) for past three batches Success rate without backlogs in any year of study = 25 × Average SI

Item	2014-15	2013-14	2012-13
Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separate division, if applicable	116 + 25	117 + 24	115 + 24
Number of students who have graduated without backlogs in the stipulated period	75	66	65
Success Index (SI)	0.53	0.46	0.46
Average SI	**0.48**		

Table B.4.2.1

Success Rate: 12

4.2.2. Success rate with backlog in stipulated period of study (15)

SI= (Number of students who graduated from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and actual admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = mean of Success Index (SI) for past three batches

Success rate = 15 × Average SI

Item	2014-15	2013-14	2012-13
Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separate division, if applicable	116 + 25	117 + 24	115 + 24
Number of students who have graduated with backlog in the stipulated period	97	85	103
Success Index (SI)	**0.68**	**0.6**	**0.74**
Average SI	**0.67**		

Table B.4.2.2

Success Rate: 10.05

4.3. Academic Performance in Third Year (15)

*Academic Performance = 1.5 * Average API (Academic Performance Index)*

***API** = ((Mean of 3rd Year Grade Point Average of all successful Students on a 10-point scale) or (Meanof the percentage of marks of all successful students in Third Year/10)) x (number of successful students/number of students appeared in the examination)*

Successful students are those who are permitted to proceed to the final year.

Academic Performance	2017-18	2016-17	2015-16
Mean of CGPA or Mean Percentage of all successful students (X)	56.05	63.38	62.72
Total no. of successful students (Y)	105	109	104
Total no. of students appeared in the examination (Z)	108	114	118
API = X* (Y/Z)	4.92	6.06	5.53
Average API = (AP1 + AP2 + AP3)/3	**5.50**		

Table B.4.3

Academic Performance =8.255

4.4. Academic Performance in Second Year (15)

*Academic Performance Level = 1.5 * Average API (Academic Performance Index)*

***API** = ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or(Mean of the percentage of marks of all successful students in Second Year/10)) x (number of successful students/number of students appeared in the examination)*

Successful students are those who are permitted to proceed to the Third year.

Academic Performance	2017-18	2016-17	2015-16
Mean of CGPA or Mean Percentage of all successful students (X)	68.78	51.83	61.52
Total no. of successful students (Y)	110	108	114
Total no. of students appeared in the examination (Z)	127	128	129
API = X* (Y/Z)	5.95	4.37	5.43
Average API = (AP1 + AP2 + AP3)/3	**5.25**		

Table B.4.4

Academic Performance Level =7.875

4.5. Placement, Higher Studies and Entrepreneurship (40)

Assessment Points = 40 × average placement= 32.12

Item	2017-18	2016-17	2015-16
Total No. of Final Year Students (N)	109	104	114
No. of students placed in companies or Government Sector (x)	67	82	92
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	10	6	3
No. of students turned entrepreneur in engineering/technology (z)	03	0	0
x + y + z =	80	88	95
Placement Index: (x + y + z)/N	0.73	0.85	0.83
Average placement= (P1 + P2 + P3)/3	**0.803**		

Table B.4.5

4.5a. Provide the placement data in the below mentioned format with the name of the program and the assessment year:

2017 - 2018

Sl. No.	Name of the student placed	Enrollment No. (USN)	Name of the Employer	Appointment letter reference No. with date
1	BHAVANA T S	1AY14CS028	Infosys	
2	DEBANGSHU BANERJEE	1AY14CS035	Infosys	
3	JAGMAN KAUR	1AY14CS048	Infosys	
4	M ARJUN	1AY14CS060	Infosys	
5	MAHEER ASHRAF BABA	1AY14CS062	Infosys	
6	PAVITHRA. M	1AY14CS080	Infosys	
7	VIVEK KUMAR ANAND	1AY14CS136	Infosys	
8	ABHISHEK R	1AY14CS089	Mindtree	
9	ROHAN AGARWAL	1AY14CS101	HashedIn Technologies	

10	SAHIL DEBNATH	1AY14CS108	Capgemini	
11	ASHIK K	1AY14CS022	Capgemini	
12	KEERTHI.N	1AY14CS054	Capgemini	
13	NISCHITA R M	1AY14CS076	Capgemini	
14	MASHOOQ M A	1AY14CS067	Capgemini	1505054/198578 DATED 07/06/2018
15	SUSHMITHA R	1AY14CS126	INSZoom Technologies	INS/HRD/BLR/17-18/38 DATED 22/11/2017
16	ANANTH NARAYAN BHAT	1AY14CS018	Cognizant	OFFER LETTER DATED 13/07/2018
17	K MANU SHANKAR NAIR	1AY14CS050	NTT Data	
18	MEGHANA.B.P		NTT Data	
19	SRILAGNA SANYAL	1AY14CS120	NTT Data	
20	VINAY.D	1AY14CS134	NTT Data	
21	DATTAKIRAN C S	1AY14CS034	TeleradTech	TRT/C/offr/17-18/002 DATED 28/02/2018
22	AMITH G SHETTY	1AY14CS017	CapitalVia	
23	INDUSHREE K G	1AY14CS046	CapitalVia	
24	KAVYA M K	1AY14CS052	CapitalVia	
25	SHIVAM PANDEY	1AY13CS113	Sunrise Biztech Systems Pvt Ltd	
26	BINNU C	1AY14CS030	Byju's	
27	HARSHITHA P	1AY14CS044	Byju's	
28	NISHANT SINGH	1AY14CS077	Collabera	
29	YASH BAGARIA	1AY14CS137	Collabera	
30	ADARSH KUMAR	1AY14CS009	Clear Tax	
31	E SANDEEP CHOUDARY	1AY14CS039	Profectum Market Solutions Pvt Ltd	
32	VIDYA B.S	1AY14CS132	Quinnox	OFFER LETTER DATED 22/06/2018
33	PRASAD.P	1AY14CS084	Prama Hikvision	OFFER LETTER DATED 16/07/2018
34	AYUSHI DAS	1AY14CS025	Sonata Software	
35	SACHIN M S	1AY14CS104	Sonata Software	
36	BHAGYASHRI PARASHURAM MOHITE	1AY15CS402	Sonata Software	SSL/HR /APPT/18/73be6ac0-526f-418d-aa6d-7990ac5b819a DATED 08/06/2018
37	PRIYANK MATHUR	1AY14CS088	Accenture	OFFER LETTER DATED 29/06/2018
38	MEGHANA U	1AY14CS070	Toshiba	OFFER LETTER DATED 12/09/2018
39	AKASH DEBNATH	1AY14CS013	Syntel	OFFER LETTER DATED 11/10/2018
40	ANKUR.V. VINEKAR	1AY14CS019	Volvo (Internship) waiting for confirmation	
41	CHIDAMBARAM SETTY R	1AY14CS032	Randstand	
42	MANOJ KUMAR SHETTY	1AY14CS065	Stratogent	
43	RAMNATH	1AY14CS097	Primacy	

44	SANJAY RAWAL	1AY14CS114	Loyalitics	
45	NANDA KUMAR.G	1AY15CS413	HCL	
46	RENISH	1AY15CS416	XORStack	
47	SUBHRA SATYAL	1AY14CS122	BYJU'S	
48	VARSHA M P	1AY14CS130	Tata Elxsi	
49	YESHVITHA S	1AY15CS424	HP	
50	YUKTI BASNET	1AY14CS141	BYJU'S	
51	SADHANA ADAPPA MATTIKALLANNAVAR	1AY14CS105	SLK Software	
52	AATISH KUNAL	1AY14CS003	Analytics Vidya	
53	R. INCHARA	1AY14CS090	BEL	
54	SANJANA K	1AY14CS112	Tata Elxsi	
55	SANJAY KUMAR R	1AY14CS113	DXC Technology	
56	SATYAM KUMAR	1AY14CS116	EDII	
57	KRUTHIKA T	1AY14CS057	Capgemini	
58	RITESH MATTAM	1AY14CS100	Chromosomes Networks	
59	ASHWITHA.G.BABU	1AY14CS023	Chromosomes Networks	
60	MEGHA T K	1AY15CS412	ABC Technologies	
61	RESHMA MURTUJASAB KUSTAGI	1AY15CS417	ABC Technologies	
62	MANOJ R	1AY14CS066	ABC Technologies	
63	TOSLIM ARIF	1AY14CS129	AT & T	
64	VACHANASHREE B S	1AY15CS422	ABC Technologies	
65	SUNEETHA G	1AY15CS421	ABC Technologies	
66	M.NARENDRA	1AY14CS059	ABC Technologies	
67	NIKHIL K	1AY14CS073	Infosys	

2016-2017

Sl. No.	Name of The Student Placed	Enrollment No. (USN)	Name of the Employer	Appointment letter reference No. with date
1	PRAJAPATI ASHISHBHAI GOKULBHAI	1AY13CS078	M/S HashedIn Technologies	
2	AKANKSHA ARUN	1AY13CS007	Infosys	
3	K P LIKHITH	1AY13CS043	Infosys	
4	RAHUL SINGH	1AY13CS081	Infosys	
5	SHEETHAL.P	1AY13CS110	Infosys	
6	SHIVA PRASAD K	1AY13CS114	bevie	Offer Letter Dated 07/12/2018
7	ANURAG SAHANA	1AY13CS012	Cognizant Technology Solutions	Offer Letter Dated 29/12/2016
8	JUHI LATA	1AY13CS042	Infosys	HRD/3T/17-18/11413908
9	M ABHIJITH N REDDY	1AY13CS053	Cognizant Technology Solutions	
10	MANISHA RANI	1AY13CS056	Cognizant Technology Solutions	
11	MANJUANTH B MARIGOUDAR	1AY13CS057	Cognizant Technology Solutions	
12	NEELKANT K JAIN	1AY13CS064	Cognizant Technology Solutions	

13	PASHA UMME FIAZA SARWARRUKSANA	1AY13CS074	Cognizant Technology Solutions	
14	P SANKETH	1AY13CS077	Cognizant Technology Solutions	
15	RAVI KUMAR	1AY13CS089	Cognizant Technology Solutions	
16	SAMEER M ADYA	1AY13CS097	Cognizant Technology Solutions	
17	SANKETH S.G	1AY13CS101	Cognizant Technology Solutions16	
18	SHREYAS MOHAN	1AY13CS115	Cognizant Technology Solutions	
19	SHUBHA NS	1AY13CS116	Cognizant Technology Solutions	
20	SHYAMKUMAR JHA	1AY13CS119	Cognizant Technology Solutions	
21	SNEHA S	1AY13CS120	Cognizant Technology Solutions	
22	VARSHA RAVI	1AY13CS130	Cognizant Technology Solutions	
23	PARUL RANJAN	1AY13CS138	Cognizant Technology Solutions	
24	M ABHIJITH REDDY	1AY13CS013	M/S Xoriant Technologies	
25	SATYAM	1AY13CS103	Capgemini India Pvt Ltd	Offer Letter Dated 30/01/2018
26	SHAMITHA N R	1AY13CS106	Capgemini India Pvt Ltd	
27	DIMPLE G	1AY13CS028	Capgemini India Pvt Ltd	
28	MAYANK SAURABH	1AY13CS059	Mindtree	
29	KRISHNANATH	1AY13CS049	Tech Mahindra	
30	REEMA MIRANDA	1AY13CS091	Tech Mahindra	
31	ANUSHA C	1AY13CS013	Tech Mahindra	**696643/1481392/ELTP** DATED 11/04/2018
32	ADITYA KUMAR	1AY13CS005	Tech Mahindra	
33	HITHYSHE H.B	1AY13CS037	Tech Mahindra	
34	RAJAN SINGH	1AY13CS084	Tech Mahindra	
35	SHIVAKUMAR D K	1AY13CS112	Tech Mahindra	
36	SANJANA S ATHREYA	1AY13CS099	Tech Mahindra	
37	SANJAY J BHAT	1AY13CS100	Tech Mahindra	
38	NIRMALA D O	1AY13CS070	Mphasis	Apps/1063120/07694027/Mangalore/December/V0 - Dated 22/12/2017
39	KAVYA M S	1AY13CS046	Mphasis	
40	RAJ KUMAR PANDEY	1AY13CS082	Mphasis	
41	RIJUTA GHOSH	1AY13CS092	Cognizant	Offer Letter Dated 14/03/2018
42	MURLI KUMAR	1AY13CS062	L & T Infotech	L&T Infotech/Hr/Campus/2017
43	RASHMI	1AY13CS088	L & T Infotech	
44	RAKSHITH NAIRY B	1AY13CS086	Sonata Software Pvt Ltd	
45	ABHIJITH D KADAM	1AY13CS003	Sonata Software Pvt Ltd	
46	AKSHATA KULKARNI	1AY13CS008	Sonata Software Pvt Ltd	
47	NISHANTH KAUSHIK	1AY13CS071	ABIBA Systems	
48	SRIJANA SHARMA	1AY13CS124	M/S Think and Learn Pvt Ltd (Byjus)	
49	DEEPTIMAAN MALL	1AY13CS024	Vdart Software Solutions Pvt Ltd	

50	NIKHIL SHARMA	1AY13CS067	Vdart Software Solutions Pvt Ltd	
51	VARUN CHAMOLI	1AY13CS132	Volvo IT	
52	V ANUSHA	1AY13CS129	Volvo IT	
53	PASHA UMME FIAZA SARWARRUKSANA	1AY13CS074	Cervello	
54	ANUBHAW	1AY12CS016	CMS IT	
55	NISHANTH S SHETTY	1AY13CS072	CMS IT	
56	SOURAV ROY	1AY13CS123	PRODUCTLABS	Appt/Emp/Hrd/2018 Dated 02/07/2018
57	NR RAJATH JAMADAGNI	1AY13CS140	CMS IT	
58	AVINASH GUPTA	1AY13CS017	NTT DATA	
59	GAURAV ROHILLA	1AY13CS030	NTT DATA	
60	RAJAN PARASHAR	1AY13CS083	CELL WORKS	Offer Letter Dated 28/08/2017
61	JESHWAANTH S	1AY14CS406	Infodart technologies india ltd	Offer Letter Dated 05/06/2018
62	ABHISHAKE KHAJURIA	1AY13CS004	CAPGEMINI	
63	AMIT GUPTA	1AY13CS009	Wipro	
64	ANUSHA R SWAMY	1AY13CS014	Accenture	
65	AVINASH KUMAR JAISWAL	1AY13CS018	Hacker Earth	
66	AZAM KHAN A	1AY13CS019	VxCeed	Offer Letter Dated 02/07/2018
67	GEETHANJALI B M	1AY13CS033	Mindtree	
68	HARSHA L SURYAVAMSHI	1AY13CS036	HUAWEI TECHNOLOGIES	
69	MALGI RASIKA VAMAN	1AY13CS055	NTT Data	
70	SHWETHA.H	1AY13CS117	Cognizant	
71	YASH THAKUR	1AY13CS136	Hackerearth	Offer Letter Dated 21/08/2017
72	AVINASH GOWDA R	1AY14CS402	Byju's	
73	SINDHUMANI S	1AY14CS420	Micro Land	
74	SOWMYA.R	1AY14CS421	Integra Technologies	
75	VIKASH KUMAR	1AY13CS134	Mediaware	
76	SHWETHA PS	1AY13CS118	Acutuant	Offer Letter Dated 23/07/2018
77	SHAIKH AYEED	1AY14CS417	Entrepreneur-Hexesys Soft Solutions Pvt Ltd	
78	DHANUSH T K	1AY13CS025	Accenture	Offer Letter Dated 26/02/2018
79	SANTOSH T LAMANI	1AY14CS416	VCNR technology	Offer Letter Dated 31/12/2018
80	NAVEEN MULIMANI	1AY13CS063	MindTree	
81	DARSHAN HS	1AY14CS403	Accenture	
82	BASAVARAJU M N	1AY13CS020	Accenture	

2015-2016

Sl. No.	Name of The Student Placed	Enrollment No. (USN)	Name of the Employer	Appointment letter reference No. with date
1	ABHIJEET SASIDHARAN	1AY12CS001	Infosys	
2	AMRITA SINGH	1AY12CS009	Infosys	
3	HARI ASHWATH R	1AY12CS041	Infosys	
4	KOMAR KANTHI SANNAPPA	1AY12CS045	Infosys	
5	M .C. AKASH	1AY12CS047	Infosys	
6	NIKHITHA.P	1AY12CS061	Infosys	
7	PRERNA SHARMA	1AY12CS070	Infosys	
8	RAM KRISHNA HARIOM	1AY12CS074	Infosys	
9	SHIVAPRASAD B	1AY12CS093	Infosys	
10	HARSHITHA P S	1AY12CS136	Infosys	
11	LOKESHA BG	1AY13CS414	Infosys	
12	MD. NAWAID ALI	1AY12CS053	TechMahindra	
13	NIHAL P GHANATHE	1AY12CS062	TechMahindra	
14	SUBENDRA KUMAR S	1AY12CS108	TechMahindra	
15	SULEKHA KUMARI	1AY12CS112	TechMahindra	
16	AISHWARYA N	1AY12CS007	Mu Sigma	
17	MEGHASHYAM V RAO	1AY12CS055	Mu Sigma	Offer Letter Dated 26/07/2018
18	SRIVATSA .K	1AY12CS106	Mu Sigma	
19	SHILPI SINHA	1AY12CS091	M/s Cognizant	
20	BASAVALINGA S.	1AY12CS023	M/s Cognizant	
21	RASHMI G.	1AY12CS076	M/s Cognizant	
22	SHISHIRA K. R.	1AY12CS092	M/s Cognizant	
23	VARUN B. S.	1AY12CS123	M/s Cognizant	
24	DHIRENDRA KUMAR SINGH	1AY12CS033	M/s Cognizant	
25	UJJWAL JAIN	1AY12CS122	M/s Cognizant	
26	S.LEKHA	1AY12CS084	M/s Cognizant	
27	ANKITA DIVYA	1AY12CS014	M/s Cognizant	
28	SHREEDHAR BHAT	1AY12CS095	M/s Cognizant	
29	ARPITHA J.	1AY12CS019	M/s Cognizant	
30	SACHIN C. S.	1AY12CS085	M/s Cognizant	
31	SAURAV KUMAR	1AY12CS089	M/s Cognizant	
32	SURAJ M. DURGAD	1AY12CS116	M/s Cognizant	
33	SRISHAILA K.R.	1AY12CS105	M/s Cognizant	
34	SHIVANAND TIRKI	1AY12CS094	M/s Cognizant	
35	NIKHITHA P.	1AY12CS061	M/s Cognizant	
36	SANDHYA D. BIRAJDAR	1AY12CS088	M/s Cognizant	
37	NIHAL PRATAP GHANATHE	1AY12CS062	M/s Cognizant	
38	SOHUM WAHI	1AY12CS099	M/s Cognizant	
39	ABHISHEK KUMAR SINGH	1AY12CS002	Inszoom	INS/HRD/BLR/15-16/34 Dated 30/09/2015
40	H L GURUDATH	1AY12CS038	iGate	
41	HULSI KUMARI	1AY12CS042	iGate	

42	POOJA V	1AY12CS068	iGate	
43	PRATIK KUMAR	1AY12CS069	iGate	
44	SHASHWATHI K N	1AY12CS090	iGate	
45	SREERAG K K	1AY12CS104	iGate	
46	SRUSHTI.K	1AY12CS107	iGate	
47	SUJEET YERNALLE	1AY12CS111	iGate	
48	SWASTIK BISWAS	1AY12CS119	iGate	
40	REET SHRIVASTAVA	1AY12CS079	Hashedin	
50	AKASH	1AY12CS008	L&T Infotech	L&T/Hr/Campus/2016 Dated 16/10/2015
51	SUBRAHMANYA	1AY12CS110	L&T Infotech	
52	VINAYAK S KAKAMARI	1AY12CS126	L&T Infotech	L&T/Hr/Campus/2016 Dated 16/10/2015
53	DARSHINI.N	1AY12CS030	Mindtree	Offer Letter Dated 26/10/2015
54	RASHMI .C.S	1AY12CS075	Mindtree	
55	MOUNICA A	1AY12CS057	NTT DATA	Offer Letter Dated 04/11/2015
56	NEHA KUMARI	1AY12CS060	NTT DATA	Offer Letter Dated 04/11/2016
57	SOURAJEET CHATTERJEE	1AY12CS102	NTT DATA	Offer Letter Dated 04/11/2017
58	RICHA MEHTA	1AY12CS080	Onmobile	
59	VIGNESH N. K.	1AY12IS096	Onmobile	
60	ABHISHEK CHANDRA SINGH	1AY12CS003	Sunrise Biztech Systems	
61	NITESH KUMAR	1AY12CS065	HCL-TSS	
62	PRIYANKA P B	1AY12CS071	HCL-TSS	
63	ABHISHEK UPADHYAY	1AY12CS005	CAPGEMINI	Offer Letter Dated 15/03/2017
64	ANISH K	1AY12CS011	Medzic Pvt Ltd	
65	ARATHI.T	1AY12CS017	Tech Mahindra	
66	ASHISH KUMAR VERMA	1AY12CS020	Suntec Business Solutions	
67	BIRENDRA SAH	1AY12CS028	Suntec Business Solutions	
68	DARSHINI N	1AY12CS030	Mindtree ltd	Offer Letter Dated 06/11/2017
69	DIPANKAR GHOSH	1AY12CS034	ADA Software	
70	JEEVAN S R	1AY12CS043	L & T Technology	
71	MADHURI C	1AY12CS048	MOZAVI TECH	
72	MEGHANA R	1AY12CS054	MOZAVI TECH	
73	NAVEEN.C	1AY12CS058	SPANEOUS SOFTWARE SOLUN PVT LTD	
74	NISCHITHA S.	1AY12CS063	ModeFin Server Pvt Ltd	
75	RAVIKESH KUMAR	1AY12CS077	Bhagin Technologies	
76	SAMIR RAI	1AY12CS086	Amazon	
77	SURAJ KUMAR	1AY12CS115	OXL Technologies	
78	SUSHMITA KUMARI	1AY12CS118	Mphasis	
79	TAFHEEM M	1AY12CS120	IBM	
80	ROHIT PAWAR	1AY13CS420	First Source	Offer Letter Dated 06/11/2017
81	MAHESH KUMAR B M	1AY12CS050	Amazon	
82	KUMAR AVINASH	1AY12CS046	Allgcargo logistic	

83	ABHISHEK M A	1AY12CS004	sakeesost.com	
84	JAGADISH H S	1AY13CS412	VCNR technology	
85	DILEEPA M	1AY13CS406	Dell Emc	
86	DARSHAN P	1AY13CS405	Intellectual info solution	
87	VIVEK KUMAR PATEL	1AY12CS131	Garuda Secure Technology	
88	MAHALAKSHMI	1AY12CS049	NTT DATA	Offer Letter Dated 04/11/2015
89	SONAL SNEHA	1AY12CS100	Byju's	
90	SUMIT KUMAR	1AY12CS113	CAPGEMINI	
91	BABA GURAV	1AY13CS401	CAPGEMINI	
92	HARISH H T	1AY13CS410	Map Systems	

4.6. Professional Activities (20)

4.6.1. Professional societies/chapters and organizing engineering events (05)

Technical events under CSI Students chapter

Sl. No.	Event	Date	Resource person	No. Of students attended
1	CSI Technical Symposium	25/04/2018	-	50
2	Workshop on Progressive web app	3/3/2018	Akash Pandey	30
3	Workshop on Android Mobile App Development	2/4/2016	Alexander Rebaucus Leite	27
4	Workshop on Bigdata and Hadoop Ecosystem	4/3/2016 & 11/3/2016	Prof. Chethan M, Prof Chayapathi A R, Prof. Satish S, Hemantha T D	25

Other Technical Events

Sl. No.	Academic Year	Workshops	Technical Talk	Industry Visit/ Educational Tour	Guest Lectures
1	2018-19	5	2	-	1
2	2017-18	5	1	1	-
3	2016-17	4	1	2	5
4	2015-16	7	1	4	-
	TOTAL	21	5	7	6

4.6.2. Publication of technical magazines, newsletters, etc. (5)

Sl. No.	Technical Magazine/News Letter	Name of the Technical Magazine	Issue No. and Month	Name(s) of the Editor(s)
Academic Year 2015-16				
1	Magazine	MAGNUM OPUS	6TH ISSUE	**FACULTY** Dr. P V Kumar Prof.Gayathri Kamath Prof. Suresh Patel **Students** Mr. Shreedhar Bhat Ms. Prerana Sharma Mr. Shiva Prasad Ms. Maheer Mr. Likhith K P Mr. Neelkant Jain Mr. Debangshu Banergee Ms. Varsha M P Ms. Sushmitha R Mr. Ritesh Mattam Mr. Toslim Arif
Academic Year 2016-17				
1	Magazine	MAGNUM OPUS	7TH ISSUE	**Faculty** Dr. P V Kumar Prof.Gayathri Kamath **Students** Ms. Juhi Latha Mr. Shiva Prasad Mr. Gagan Bharadwaj Mr. Sai Tarun Mr. Hrushikesh Mr. Maheer Mr. Ritesh Mattam Mr. Toslim Arif
Academic Year 2017-18				
1	Magazine	MAGNUM OPUS	8TH ISSUE	**Faculty** Dr.Prashanth C M Prof.Gayathri Kamath **Students** Mr. Toslim Arif Mr. Ritesh Mattam Mr. Ajay Kumar B C Ms. Maheer Mr. Shubham Naik Mr.Praveensharma Mr. Rahul Pradeep Mr. Ranjeet Singh Mr.Jatin Prakash Mr. Shiv Kailash Ms. Anjali Sinha

4.6.3. Participation in Inter-Institute Events by students of the program of study (10)

Sl. No.	Name	Date	Event	Venue	Participation/Awards/ Recognition
Academic Year 2018-19					
1	Shikhar Chawra and Nikhil Talwar	7/7/2018 to 5/8/2018	2018 Summer Research Workshop,	ODU, USA	Runner-up, Chat Bot Challenge
2	Abhishek Maurya	04/11/2018	Workshop on hands on introduction Machine Learning using TensorFlow Organized by IEEE-IISc Student Branch	IISc. Bangalore	Participation
Academic Year 2017-18					
1	Himel Das	14/4/2018	National Level Techno Exhibition,	Ambedkar Institute of technology, Bangalore	Participation
Academic Year 2016-17					
1	Varsha Ravi	27/4/2017	Offered Assistantship in ODU	ODU USA	Recognition
2	Aditya Das	2017 June	ODU Internship	ODU, USA	Most Outstanding Intern
Academic Year 2015-16					
1	Himel Das	2015	Region, Robotryst 2015 Organized by Robosapiens Technologies Pvt. Ltd. In association with IIT, Delhi	Acharya Polytechnic, Bangalore	Second Runner-Up,
2	Sanjay Kumar	4/3/2016 and 5/3/2016	National Level Annual Techno-Cultural Fest (General Quiz)	NMIT, Bangalore	Fourth place
3	Sanjay Kumar	4/3/2016 and 5/3/2016	National Level Annual Techno-Cultural Fest (Vices Quiz)	NMIT, Bangalore	Second Place
4	Shiva Prasad K	24/6/2016	Invited Talk on Web Development and Virtual Reality	Christ University, Bangalore	Resource Person

CRITERION 5	Faculty Information and Contributions	200

5. Faculty Information and Contributions (200)

Details of the faculty for all academic years from current year is given in Annexure -III

5.1 Student-Faculty Ratio (SFR) (20)

No of UG Programs in the department : 01

No of PG Programs in the department : 01

Year	2018-19	2017-18	2016-17
No. of students in UG 2nd year (U1.1)	120+24	120+24	120+24
No. of students in UG 3rd year (U1.2)	120+24	120+24	120+24
No. of students in UG 4th Year (U1.3)	120+24	120+24	120+24
UG1 = U1.1+U1.2+U1.3	**432**	**432**	**432**
No. of students in PG 1st Year (P1.1)	24	24	24
No. of students in PG 2nd Year (P1.2)	24	24	24
PG1 = P1.1+P1.2	**48**	**48**	**48**
Total No. of students in the Department **(S)**	480	480	480
No. of Facultyin the Department **(F) (Excluding First Year)**	25	25	26
Student Faculty Ratio **(SFR)**	**19.2**	**19.2**	**18.5**
Average SFR	18.97		

Table B.5.1

5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

Year	Total number of regular faculty in the department	Total number of contractual faculty in the department
2018-2019	28	Nil
2017-2018	28	Nil
2016-2017	29	Nil

Table 5.1.1

5.2. Faculty Cadre Proportion (25)

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F1	Available	Required F1	Available
2018-2019	3	3	5	0	16	22
2017-2018	3	2	5	1	16	23
2016-2017	3	1	5	1	16	25
Average Numbers	RF1=3	AF1=2	RF2=5	AF2=0.67	RF3=16	AF3=23.33

Table 5.2

Cadre Ratio Marks = 16.66

5.3. Faculty Qualification (25)

FQ =2.5 x [(10X +4Y)/F)] where x is no. of regular faculty with Ph.D., Y is no. of regular faculty with M.Tech. F is no. of regular faculty required to comply 20:1 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

Years	X	Y	F	FQ=2.5 x [(10X +4Y)/F)]
2018-19	3	22	24	12.3
2017-18	3	22	24	12.3
2016-17	2	24	24	12.1
Average Assessment				**12.23**

Table B.5.3

5.4. Faculty Retention (25)

No. of regular faculty members in 2016-17= 29 2017-18 = 28 2018-19 = 28

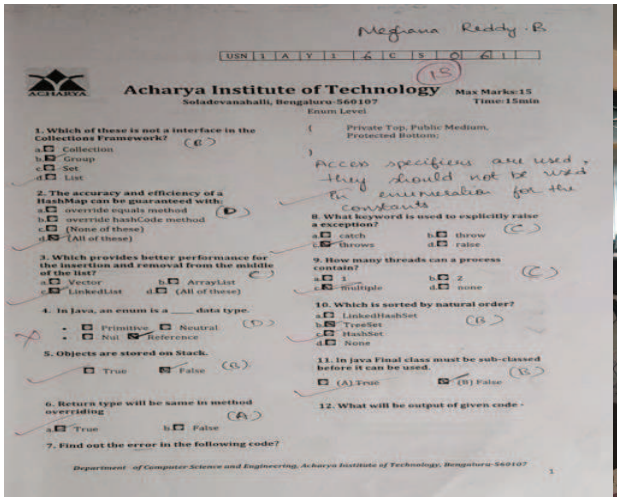
No. of regular faculty members in	2015-16	2016-17	2017-18	2018-19
	-	100%	77%	46%
AVG Faculty Retention Percentage	**74%**			

5.5. Innovations by the Faculty in Teaching and Learning (20)

Faculty members of department of CS&E department follows innovative teaching methodologies in the classroom in addition to the conventional methods like, Blackboard teaching, sharing learning materials and questioning in every class. These innovative methods employed helps the students to actively involve in the classroom.

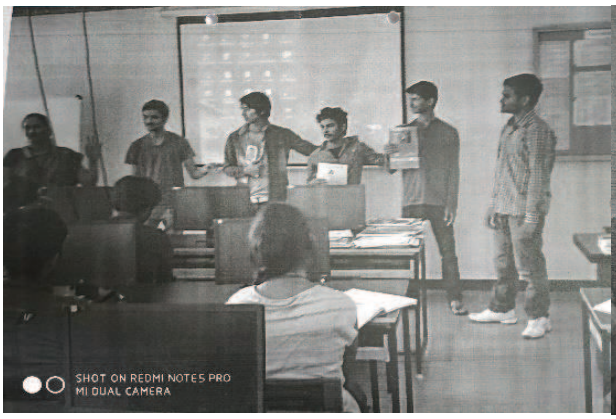
QUIZ: Analyzing Skills

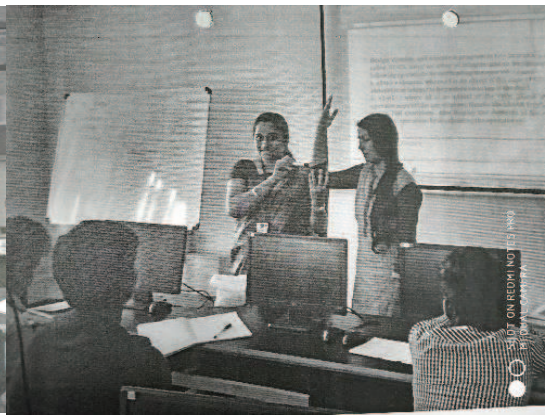
Quiz on basic of Java programming for the subject Java and J2EE (5th Sem A & B) was conducted on 25th September and 27th September 2018. This activity helped students to improve in analyzing and applying the concepts taught.


Acharya Institute of Technology
Soladevanahalli, Bengaluru-560107
Max Marks:15 Time:15min

ROLE PLAY: Demonstration Skills

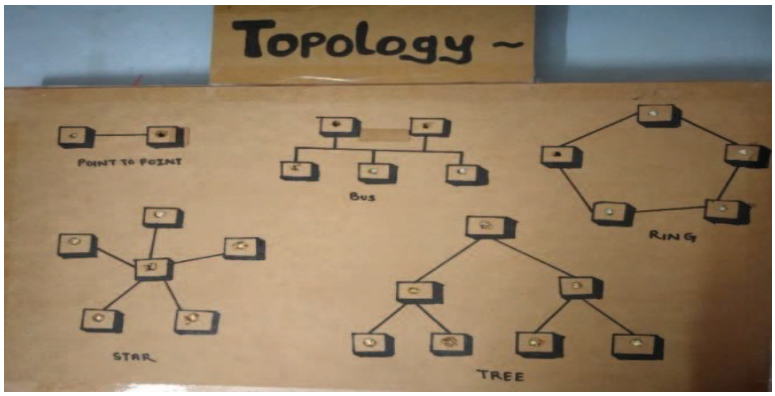
Role play was conducted for data structure lab on the topic stack, linked list for 3rd Sem B Sec on 11th august and 21th august 2015-16. It helped students to understand the concept analytically.





MODEL BASED TEACHING: Visualizing Skills

Model based teaching was conducted for Computer Network subject for some of the basic topics on August 6th 2017. It gave a visualization of network topology what we are using in our day to day activities.



PRACTICE EXAM: Time Management Skills

Practice exam was conducted for FLAT (10CS56) 100 marks exam was scheduled for slow learners on 28-12-2016 at 1:00 PM at 205 class room. It helped them to plan for final examination and also time management skills.

GROUP DISCUSSION: Analytical Skills

Group discussion was conducted for 5th Sem students on the topics "is management art or science?" in the month of September 2016.In this method students were asked to reflect on the subject what they had learnt and their thinking about the given topic.

SIMULATED SOFTWARE BASED LEARNING: Demonstration Skills

Formal language and automata theory subject are taught with the help of tools like JFLAP and JFAST in the year 2017-18. Topics like Finite Automata, Push Down Automata, etc aresimulatedusingsoftwaretoolsbywhichthe students can directlyrelateto thetopics beingtaught.

SEMINAR: SELF LEARNING

Seminar was conducted on De compiler and live demo was given on JAD Java de compiler on Compiler Design subject in the year 2016-17. The aim of the seminar was to understand and gain knowledge to manage major project in the final year.

5.6 Faculty as Participants in Faculty Development /Training activities/STTPs (15)

Name of the Faculty	Max. 5 per Faculty		
	CAYm1	CAY*m2*	CAYm3
	(2017-18)	(2016-2017)	(2015-16)
Dr. Prashanth C M	5		
Dr Surekha K B		5	
Dr. Nagaveni V	3	5	5
Prof Gayathri Kamath	3	5	5
Prof. Varalakshmi B D	5	3	
Prof Naidila Sadashiv	3	5	3
Prof Manujakshi B C			5
Prof Bhavana A		3	5
Prof. Vani K S	5	5	5
Prof. Vaishak Sundaresh	5		3
Prof. Dayanand Lal N	5		
Prof Varshini Vidyadhar	5	3	5
Prof. Ziaur Rahman		3	3
Prof. Sunil G L	3	5	3
Prof. Latharani T R		3	5
Prof. Karthik D U	5	3	
Prof. Prasanna Kumar	5		
Prof. Ancy Thomas	5		
Prof Prachi Kawalkar	5		
Prof Geetha N	5		
Prof Soumiya Patil	3		
Prof Shruthi H R	3		
Prof M P Nisha	3		
Chethan M	5		
Prof. Nagesha A G	5		

Prof. Mithuna H R		3	
Prof. Akshatha Ballal	5	5	
Kavyashree Dalawai		3	
Usha Kumari	5	3	
Prof. Jamuna S D	5		
Sum	101	62	47
RF= Number of Faculty required to comply with 20:1 Student-Faculty ratio as per 5.1	24	24	24
Assessment = 3 × (Sum/0.5RF) (Marks limited to 15)	25.25	15.5	11.75
Average assessment over three years (Marks Limited to 15) = 16.5			

Table B.5.6

5.7 Research and Development

5.7.1. Academic Research:

Year	Number of Publication
2015-16	33
2016-17	34
2017-18	27
2018-19	22 (till March 2019)

Sr. No.	Faculty Name	Scopus/Web of Science/ Google scholar index/IEEE	H-index	i10-index	No of Citations
1	Dr Prashanth C M	Scopus-02/IEEE-04/Springer-01	3	1	23
2	Dr PV Kumar		5	2	143
3	Dr V Nagaveni	Scopus- 4	1	-	8
4	Dr Surekha K B		2	-	5
5	Vani K S		1	-	5
6	Naidila Sadashiv	IEEE-5	2	1	198
7	Varalakshmi B D		1	1	25
8	Prachi K	IEEE- 1	1	0	3
9	Karthik D U		1	-	3
10	Latharani T R		1	-	10

students awarded PhD during assessment years

Name of the guide	Name of research scholar	Area of research	Year of registration	Year
Dr. P V Kumar	Dr. Venkatesh Sharma	Software Engineering	2010	Nov. 2014
	Dr. V. Hari Prasad	Bio-Informatics		March 2015
	Dr. K. Basava Raju	Image Recognition		May 2016
	Dr. Y. Sagar	Data warehouse		August 2017

Students pursuing Ph.D:

Name of the guide	Name of research scholar	Area of research	Year of registration	status
Dr. Prashanth C M	Vinai George	Machine Learning	2013	Comprehensive Viva Completed
	Ragini Krishna	Machine Learning	2013	Comprehensive Viva Completed
	Ancy Thomas	Data mining	2015	In Progress
	Rajeev Bilagi	Cloud computing	2012	In Progress
Dr. P V Kumar	Arpitha Ramya	Data warehouse	2010	Thesis submitted
	W. Sarada	Pattern Recognition	2010	Thesis submitted
	K. Srikanth	Web security	2010	In Progress
	Shailaja	Query Optimization	2011	In Progress
	V Radha Krishna	Temporal Databases	2012	In Progress
	V. Shyam Prasad	Web Technology	2012	In Progress
	Kalpana	Software Engineering	2012	In Progress
	V Chandra Prakash	Algorithms-KNN	2012	In Progress
	B. Naveen Kumar	Data warehouse	2013	In Progress
	Udaya Rani M	Data Clusterings	2013	In Progress
Dr. Nagaveni V	Ashwini N	Artificial Intelligence	2017	Comprehensive Viva Completed
	Sohara Banu	IOT –Health Care Devices	2018	In Progress
	Shruthi U	Image Processing	2017	In Progress
	Navya Shridhar	IOT Security	2017	In Progress

5.7.2. Sponsored Research (5)

Funded research:

Sl No	Name of the Faculty	Funding Agency	Amount Received	Academic Year
1.	Prof Naidila Sadashiv	VGST under SMYSR scheme	Rs 5 Lakh	2016-17

5.7.3. Development activities **(10)**

Product Development

1. IOT Smart Mirror
2. Home Automation and security system with IOT
3. Spy Robot for surveillance system using IP of Raspberry Pi
4. Song generation using AI
5. Safe and secure cooperative vehicle to vehicle communication for next generation driverless car.

Research Laboratories

Sl No	Laboratory Name	No of Computers	Configurations	Softwares/Hardwares Available
1	R & D Lab	10	Computer System with Intel Core i5,RAM 8GB,64 bit OS,HDD 500GB,DELL Monitor	MATLAB CDAC IOT KITS
2	Project Lab	40	Computer System with Intel Core i5,RAM 8GB,64 bit OS,HDD 500GB,DELL Monitor	MATLAB

Instructional Materials:

Sl No	Semester	Instruction Materials (Lab Manuals)
1	Third Semester	➢ Electronic Circuits and Logic Design ➢ Data Structures with C/C++
2	Fourth Semester	➢ Design and Analysis of Algorithms ➢ Microprocessor ➢ Microcontrollers and Embedded systems
3	Fifth Semester	➢ Computer Network ➢ Database Applications ➢ System Software and Operating System
4	Sixth Semester	➢ Unix System Programming and Compiler Design ➢ Computer Graphics Laboratory with Mini Project
5	Seventh Semester	➢ Artificial Intelligence and Machine Learning ➢ Web Technology ➢ Computer Network ➢ Web Programming

Working Models/Charts/Monograms

1. Network Toplogy Model
2. Chat Bot model
3. Missile deactivation System
4. Laboratory Manuals

5.7.4. Consultancy (from Industry) (5)

Acharya Institute of Technology is a recognized centre for Institution of Engineers (AMIE).

Year	No of students	Amount Paid per Student	Total Amount
2015-16	08	4000/-	32,000/-
2016-17	05		20,000/-
2017-18	04		16,000/-
2018-19	08		32,000/-

Grand Total Received from AMIE: 1,00,000/-

5.8. Faculty Performance Appraisal and Development System (FPADS) (30)

Period for Appraisal

Period of appraisal is from June of previous year to July of current year; post appraisal actions shall become due on 1st of August of current year.

Source Data for Appraisal

The data sources for evaluating performance of the faculty are listed below.

- Statement of purpose
- Online student appraisal
- Course file
- Personal and performance file.
- Proctorial file
- Leave availing Pattern
- Login/Logout time.

Performance Appraisal of Faculty

The faculty appraisal system is in place since last few years at Acharya institute of technology. Performance Based Appraisal System (PBAS) is modeled on recommendation made by MHRD, Pay Commission Report, Guidelines issued by AICTE & UGC. Faculty Appraisal

process is as shown in the Figure 5.1. The faculty self development guidelines are embedded into this process. However, management's support for faculty development is stated below.

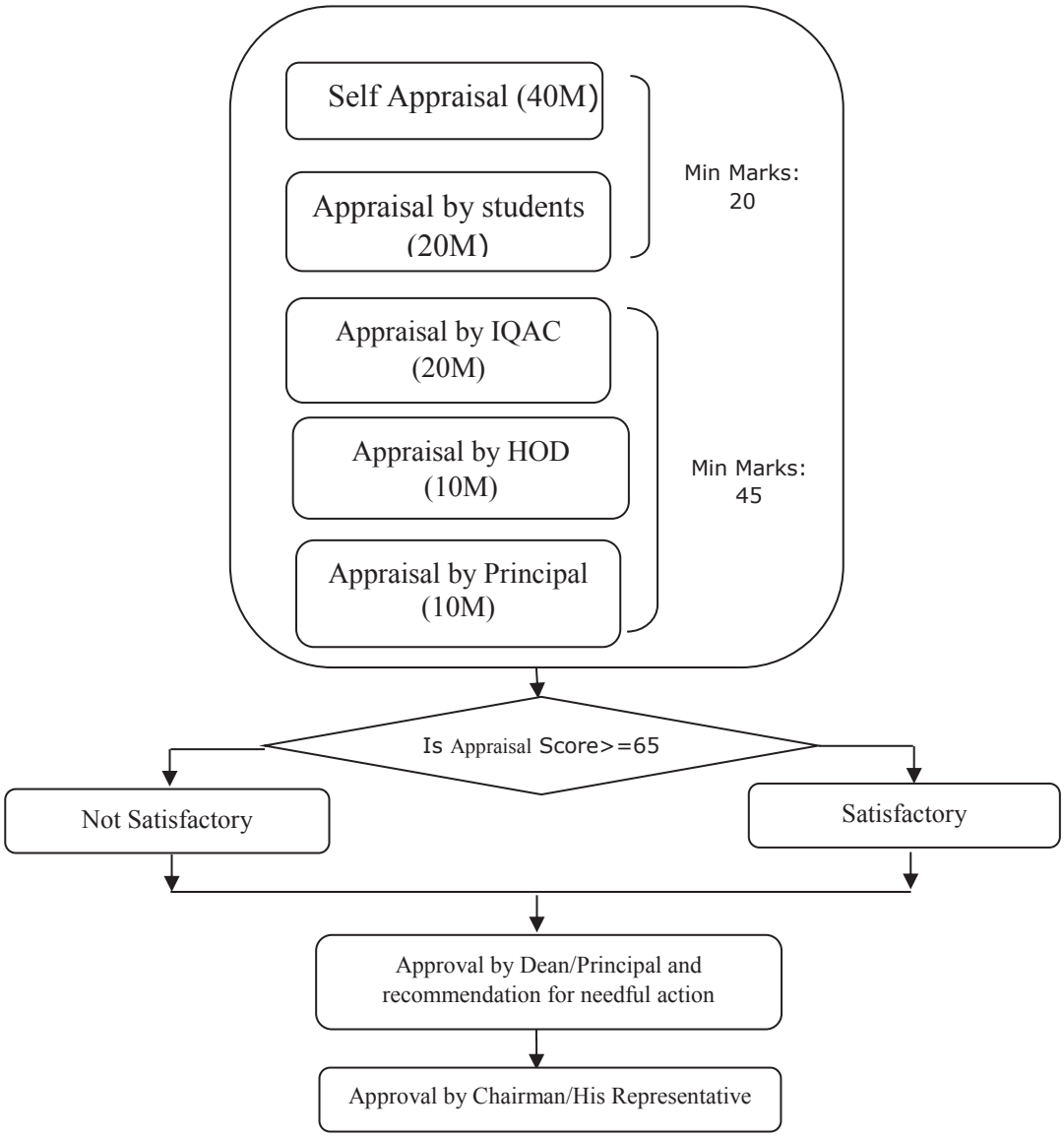


Figure 5.1 Faculty Appraisal process

The faculty performance is measured from following 5 different perspectives.

Self Appraisal **(40)**

Parameter 1: Teaching Learning Evaluation related activities **(20)**

- Duties and responsibilities discharged.

- Teaching methods adopted.

Parameter 2: Professional Development and co curricular activities. **(10)**

- Conferences/workshops organised
- Educational tours /Industrial visits organised.
- Support to the department for governance.
- Participation in conference/seminars/workshops.
- Interaction with outside world.
- Membership in professional bodies/editorial of journals.

Parameter 3: Research, publication and consultancies **(10)**

- Research projects
- Research guidance
- Publications in journal/conference
- Books published
- Consultancies
- Patents

Faculty Appraisal by students **(20)**

The students will evaluate the faculty's performance based on following parameters.

- Adequacy of depth of coverage.
- Audibility of faculty.
- Lectures make you think.
- Encouraged to ask Questions.
- Usage of the Black board

- Punctuality of faculty to classes.
- Effective delivery of topics.
- Assignments are given.
- Effective use of class time.
- Challenging test and assignments questions.
- The test and assignments valued in time.
- Communication.
- Fairness in Evaluation.
- Motivation to Learn.
- Meeting expectations by the faculty.
- Course coverage as per lesson plan.
- Help in solving academic difficulties.
- Satisfaction in general about teaching.
- Class room discipline.
- You are provided with new knowledge/ recent developments.

IQAC assessment of TLP **(20)**

- Planning of course delivery
- Quality of course outcomes.
- Quality of course materials.
- Quality of internal Assessment & assignments questions.
- Quality of scheme of Evaluation.
- Adherence to Academic calendar.
- Teaching method incorporated.
- Fairness in evaluation of internal Assessment & Assignments.

- Support to students.

Appraisal by Head of the Department **(10)**

- Discipline, regularity, punctuality -02
- Teaching ability -02
- Interaction with students -02
- Maintenance of records and involvement in departmental activities and support to administration -02
- Initiatives by the faculty -02

Appraisal by the Principal of the College **(10)**

- Involvement in the Academic/Administrative management of the Institution -02
- Participation in Policy Planning/Project Proposals / Research Projects and Guidance, Extension activities -02
- Discipline, Regularity, Punctuality -02
- Potential to be groomed for institutional/ personal growth -02
- Rating of the Faculty -02

Post 'PBAS' Actions:

The PBAS course shall be used for various activities mentioned below:

- Review of continuation in employment is case of PBAS score less than 50%
- Sanction of annual increments only if the score is above or equal to 65%.
- Any faculty getting less than 65% is counseled and advised with hand folding for subsequent improvement
- For promotions:
    - Eligibility and sustained performance for previous three years (PBAS score>=65%)
- Support for Ph. D Programs and R&D:
    - Eligibility and sustained performance for previous three years (PBAS score>=65%)

Support from the management:

To enhance the professional development faculty, institution supports as stated below:

- Special leaves/Research leaves for pursuing Ph.D/R&D activities
- Sabbatical leave for a period of 15 days in a year to visit industry for research and consultancy projects
- Every faculty is provided up to Rs. 10,000 every year towards the publication of research papers, attending conference(s)/workshops and faculty development program(s)
- Travelling expenses to the faculty for presenting research proposals

5.9. Visiting/Adjunct/Emeritus Faculty etc. (10)

Mr.Jagadeesh A Y who is a Technical Advisor for improving SEO, Search Engine Marketing Manager and Face book Marketing Manager for few clients is working as visiting faculty in the department of CSE from the 2018-19.

CRITERION 6	Facilities and Technincal support	80

6. Facilities and Technical Support (80)

6.1. Adequate and well-equipped laboratories, and Technical manpower (30)

SL	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the Important equipment	Weekly utilization status	Technical Manpower support		
					Name of the Technical Staff	Designation	Qualn
1.	Computer Networks and graphics Laboratory	30	Computer System with intel core i5, Ram 8GB, 64 bit OS HDD 500 GB Dell monitor, Projector	27 hrs [9*3]	Ms.MahaLakshmi	Instructor	B.E
2.	Data structure and algorithm Laboratory	30	Computer System with intel core i5,Ram,8GB 64 bit OS HDD 500 GB Dell monitor Projector	27 hrs	Mrs.Yogitha C	Instructor	M. Tech
3.	System software and Web Laboratory	30	Computer System with intel core i5,Ram8GB 64 bit OS, HDD 500 GB, Dell monitor, Projector	27 hrs	Mr.Shivaprasad H	Instructor	Diploma
4.	Programming Laboratory	30	Computer System with intel core i5,Ram8GB, 64 bit OS, HDD 500 GB, Dell monitor, Projector	27 hrs	Mr. Anirodha Keshvan	Instructor	B.E
5.	Electronic Laboratory	30	Trainer Kit CRO, Function Generator,Ics Computer System with intel core i5,Ram8GB, 64 bit OS, HDD 500 GB, Dell monitor, Projector	18 hrs+ 12hrs*	Mr.Shivaprasad H	Instructor	Diploma
6.	Project Laboratory	24* (6 batches per session)	Computer System with intel core i5,Ram8GB 64 bit OS, HDD 500 GB, Dell monitor, Projector	18hrs	Govindarajulu S	Instructor	M. Tech

Table B.6.1

6.2. Additional facilities created for improving the quality of learning experience in laboratories (25)

Sl. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	R & D Center	It is equipped with high configured 20 systems. And has access to various other facilities [mentioned below] which helps the research work.	To support R & D activities. Encourage students to purse research and continuous learning.	It is utilized by research scholar, PG students & UG students.	IOT, Cloud computing, Computer networks, Data mining, Image processing	PO1, PO2, PO3, PO4, PO5, PO12 PSO3
2	IOT Lab	It is equipped with Raspberry pi kit, Arduino kit Customized CDAC kit	To explore in the field of IOT and conduct experiments.	It is utilized by students to conduct IOT experiments	IOT	PO2, PO3, PO4, PO5 PSO3
3.	Software available	Sublime text XAMPP Flash Magic *MASM* Keil NS2 Anaconda MATLAB LaTeX	Simplify programming technique	It is used by the students to conduct various experiments	Web programming, ARM Processor programming, Assembly programming, Simulator programming, Python and R programming languages, Project work Report writing	PO3, PO5 PSO2 PSO3
4	ICT tools	Every lab is equipped with Projector along with cable lock, mount kit & Motorised screen. Few systems are equipped with Webcam & Head phone	To improve the teaching learning process. And also, to facilitate student with a good learning environment	It is utilized by faculty and students. It is available throughout the year for utilization		
5	Access to Internet	Ethernet/WiFi	For students to enhance their knowledge	It is available throughout the year for utilization	Inculcate self learning skills	PO10, PO12 PSO
6	Access to e-learning and journals	e-Resources packages available, IEEE-IEL Online, Springer, Taylor & Francis, Proquest Technology, Knimbus (10000+ e-journals), Kopykitab E-Books/Test Preparation platform	To help students to enhance their knowledge with latest trends and updates in the field of technology	It is available throughout the year for utilization		PO1, PO2, PO12 PSO3

Table B.6.2

6.3. Laboratories: Maintenance and overall ambiance (10)

Overall ambiance:

- All laboratories have a seating capacity of 40 students.
- All laboratories are equipped with LCD projectors, white screen and white board. The boards are installed in places with proper lighting.
- The laboratories are spacious, well ventilated and well furnished.
- The laboratories are provided with un-interrupted power supply.
- The overall ambiance of the laboratories is serene and provide excellent learning environment.

Maintenance of Laboratory Equipments

- Maintenance of laboratory equipments includes computer system, CRO, digital kit and Function generator.
- Maintenance is done in two ways:

Regular maintenance: Regular maintenance of computer system is done by deleting junk files and formatting the system [if required]. This is done once in every fortnight. Regular maintenance of digital kit, CRO, function generator is calibrated to get accurate rating. This is done once in a semester.

On call maintenance: On call maintenance is done in case of major issue or breakdown of the equipment.

- In case of any major issue or breakdown of the equipment, a complaint is raised on the ERP tool to Systems department.
- After the issue is resolved by Systems department the complaint shall be closed on the ERP tool
- Based on the recommendation the equipped shall be procured.
-

6.4. Project laboratory (5)

Name	Capacity	No. of systems & configuration	Other facilities	Weekly utilization status	Software's Available
Project Laboratory	**40**	**40** Configuration: Intel core i5 3470 Ram 8GB 64-bit OS HDD 500 GB Dell monitor	One LCD projector, one white screen and one white board.	18 hours	MAT lab, Visual studio, Anaconda, Latex, NS2, XAMPP

6.5. Safety measures in laboratories (10)

Sr. No.	Name of the Laboratory	Safety measures
1.	Networks and graphics Laboratory	- Fire Extinguisher - All Electrical Wires are protected by MCBs - Do's and Don'ts board - First aid box - Antivirus - Air Conditioner
2.	Data structure and algorithm Laboratory	- Fire Extinguisher - All Electrical Wires are protected by MCBs - Do's and Don'ts board - First aid box - Antivirus - Air Conditioner
3.	System software and Web Laboratory	- Fire Extinguisher - All Electrical Wires are protected by MCBs - Do's and Don'ts board - First aid box - Antivirus - Air Conditioner
4.	Programming Laboratory	- Fire Extinguisher - All Electrical Wires are protected by MCBs, - Do's and Dont's board - First aid box - Antivirus - Air Conditioner
5.	Electronics Laboratory	- Fire Extinguisher - All Electrical Wires are protected by MCBs, - Do's and Dont's board - First aid box - Antivirus - Air Conditioner
6.	Project Laboratory	- Fire Extinguisher - All Electrical Wires are protected by MCB - Do's and Dont's board - First aid box - Antivirus - Air Conditioner

Table B.6.5

CRITERION 7	Continuous Improvement	50

7. CONTINUOUS IMPROVEMENT (50)

7.1. Actions taken based on the results of evaluation of each of the POs & PSOs (20)

POs & PSOs Attainment levels and Actions for improvement 2018-19

POs	Target	Attainment	Observations
P01: Engineering knowledge: Apply the knowledge of mathematics, science, engineeringfundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO1	75%	80.40%	Target Met
Action: **NIL**			
P02: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
PO2	75%	76.78%	Target Met
Action: **NIL**			
PO3: Design/development of solutions: Design solutions for complex engineering problems anddesign 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.			
PO3	75%	74.10%	1. Due to students preoccupied notion about the electronics related subjects being tough low attainments in Electronic circuits, Microprocessors and Computer Organization courses continued. 2. Performance of lateral entry students is consistently low in many of the subjects in 3rd and 4th semesters
Actions Taken: Action 1: Course instructor with research interest in Internet of Things was allotted Electronics Circuits course. Action 2: A workshop on "Outcome based Education Implementation "was conducted on 7th and 8th of March 2018 to create the awareness of OBE in course instructors to improve the overall quality of course delivery. Action 3: An industrial visit to CDAC was organized on 16th March 2018 to enhance knowledge of student in Computer Organization, IoT and Computer Architecture. Action 4: A talk on "Storage Area Networks "was organized on 13-08-2018 by Ms .Shrigowri, Analyst from DELL EMC^2. Action 5: A talk on Internet Protocols and Multimedia Applications by Prof. Anandi Giridharan, Principal Research Scientist, IISC was organized on 29/08/2017. Action 6: A talk on "Cloud Computing and Careers" by Mr. MURALI MALLADI, Nutanix, Bangalore was organized on 9th September 2017.			

P04: Conduct investigations of complex problems: Use research-based knowledge and researchmethods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
PO4	75%	80.38%	Target met
Action: **NIL**			
PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modernengineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.			
PO5	75%	80.42%	Target met
Action: **NIL**			
PO6 : The engineer and society: Apply reasoning informed by the contextual knowledge to assesssocietal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
PO6	75%	82.73%	Target met
Action: **NIL**			
PO7: Environment and sustainability: Understand the impact of the professional engineering solutionsin societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.			
PO7	75%	80%	
Action: **NIL**			
PO8: The engineer and society: Apply reasoning informed by the contextual knowledge to assesssocietal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
PO8	75%	78.62%	Target met
Action: **NIL**			
PO9: Individual and team work: Function effectively as an individual, and as a member or leader indiverse teams, and in multidisciplinary settings.			
PO9	75%	79.87%	Target met
Action: **NIL**			
PO10: Communication: Communicate effectively on complex engineering activities with the engineeringcommunity 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.			
PO10	75%	91.20%	Target met
Action: **NIL**			
PO11: Project management and finance: Demonstrate knowledge and understanding of theengineering 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.			
PO11	75%	78.29%	Target met
Action: **NIL**			
PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage inindependent and life-long learning in the broadest context of technological change.			
PO12	75%	73.97%	Except few courses like seminar and Projects, no other course has self-learning component(s).
Action taken: 1. Students were encouraged to take up NPTEL, MOOC and SWAYAM online courses and certification exams to develop self-learning and life-long learning ability. 2. An industrial visit to CDAC was organized on 16th March 2018 to enhance knowledge of student in Computer Organization, IoT and Computer Architecture.			

Table B.7.1.1 Academic year 2017-2018

POs & PSOs Attainment levels and Actions for improvement 2017-18:

<table>
<tr><th>POs</th><th>Target</th><th>Attainment</th><th>Observations</th></tr>
<tr><td colspan="4">P01: Engineering knowledge: Apply the knowledge of mathematics, science, engineeringfundamentals, and an engineering specialization to the solution of complex engineering problems.</td></tr>
<tr><td>PO1</td><td>70%</td><td>68.88%</td><td>1. Low attainments in Microprocessor and Electronics courses in this year as well.

2. Low attainment in C#.net (Elective) as it had lot of built in libraries and students failed to remember them.

3. Performance of lateral entry students is consistently low in many of the subjects in 3rd and 4th semesters, especially in mathematics.</td></tr>
<tr><td colspan="4">Actions Taken:

Action 1: Additional classes were conducted for courses, where set targets were not achieved.

Action 2: Students were encouraged to attend coding competitions to improve on their Programming skills.

Action 3: A workshop on Android Application Development by Mr. Alexander was organized on 19th October 2016.

Action 4: A technical talk on “Mathematical Modelling” by Dr. Jitendra R Rao was organized on 6th May 2017.</td></tr>
<tr><td colspan="4">P02: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.</td></tr>
<tr><td>PO2</td><td>70%</td><td>69.16%</td><td>1. Attainment is close to set target; however, IA question papers lacked questions on analysis of problems.

2. Performance of lateral entry students is consistently low in many of the subjects in 3rd and 4th semesters.</td></tr>
<tr><td colspan="4">Actions Taken:

1. Separate section for lateral entry students were created in the academic year 2017-18.

2. A Workshop on Awareness Program on FOSS Open Source Software was conducted on 8th February 2017 by Mr.Nagesh , Director, CDAC.</td></tr>
<tr><td colspan="4">PO3: Design/development of solutions: Design solutions for complex engineering problems anddesign 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.</td></tr>
<tr><td>PO3</td><td>70%</td><td>69.39%</td><td>1. Students expressed that, they did not put necessary effort to study basic electronics course. Hence, they found courses such as Electronic Circuits, Computer Organization and Microprocessors difficult.

2. Performance of lateral entry students is consistently low in many of the subjects in 3rd and 4th semesters.</td></tr>
<tr><td colspan="4">Actions Taken:</td></tr>
</table>

Action 1: Conducted the bridge classes to teach basics of electronics in the beginning of the 3rd semester before the commencement of the actual syllabus for courses mentioned in the observations. Action 2: Students were encouraged to take up MOOC courses – an online certification on recent technologies. Action 3: A workshop on Big Data was conducted by Mr. Hemanth and team was organized on 4th March 2017 to enhance their design and development skills.			
P04: Conduct investigations of complex problems: Use research-based knowledge and researchmethods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
PO4	70%	74.00%	Target met
Action: **NIL**			
PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modernengineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.			
PO5	70%	72.95%	Target met
Action: **NIL**			
PO6 : The engineer and society: Apply reasoning informed by the contextual knowledge to assesssocietal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
PO6	70%	72.85%	Target met
Action: **NIL**			
PO7: Environment and sustainability: Understand the impact of the professional engineering solutionsin societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.			
PO7	70%	69.21%	It is observed that, rubrics employed continued to fail in proper assessment of impact of seminar and projects on society and environment.
Action 1: Rubrics refined further to address the issue mentioned in observations.			
PO8: The engineer and society: Apply reasoning informed by the contextual knowledge to assesssocietal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
PO8	70%	72.38%	Target met
Action: **NIL**			
PO9: Individual and team work: Function effectively as an individual, and as a member or leader indiverse teams, and in multidisciplinary settings.			
PO9	70%	74.97%	Target met
Action: **NIL**			
PO10: Communication: Communicate effectively on complex engineering activities with the engineeringcommunity 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.			
PO10	70%	77.52%	Target met
Action: **NIL**			
PO11: Project management and finance: Demonstrate knowledge and understanding of theengineering 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.			
PO11	70%	72.69%	Target met
Action: **NIL**			
PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage inindependent and life-long learning in the broadest context of technological change.			
PO12	70%	74.38%	Target met
Action: **NIL**			

Table 7.1.2 Academic year 2016-2017

POs & PSOs Attainment levels and Actions for improvement 2016-17:

<table>
<tr><th>POs</th><th>Target</th><th>Attainment</th><th>Observations</th></tr>
<tr><td colspan="4">P01: Engineering knowledge: Apply the knowledge of mathematics, science, engineeringfundamentals, and an engineering specialization to the solution of complex engineering problems.</td></tr>
<tr><td>PO1</td><td>65%</td><td>59.69%</td><td>Electronic Circuits and Microprocessors courses were major contributors for the low attainment.
The following are the observations:
1. Enough equipment’s were not available for conduction of experiments in Electronics and Microprocessors laboratories. Hence, students may have failed to understand the basic concepts.
2. Adequate space was not available to accommodate 30 students in Electronics and Microprocessors laboratories. Hence, the students may not have conducted experiments effectively.</td></tr>
<tr><td colspan="4">Actions Taken:

Action 1: Procured additional equipments to Electronics circuits and Microprocessors laboratories.

Action 2: Proposed to shift Laboratories mentioned above to a spacious place.</td></tr>
<tr><td colspan="4">P02: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.</td></tr>
<tr><td>PO2</td><td>65%</td><td>60.31%</td><td>In addition to the observations made for PO1;

1. The students felt electronics related courses are difficult.
2. Internal Assessment questions were not suitable to evaluate the problem analyzing ability of students in Microprocessor and Electronic Circuits courses.</td></tr>
<tr><td colspan="4">Actions Taken:

Action 1: Review of the course delivery by instructor was carried out (decided to change the instructor).

Action 2: The quality of internal assessment questions was reviewed by one of the senior faculty.

Action 3: Peer learning approach was introduced by conducting a workshop on “Mobile Application Development” on 2nd April 2016 by one of the students of pre-final year.</td></tr>
<tr><td colspan="4">PO3: Design/development of solutions: Design solutions for complex engineering problems anddesign 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.</td></tr>
<tr><td>PO3</td><td>65%</td><td>60.27%</td><td>1. Internal Assessment questions were not suitable to evaluate the ability of students to design solutions to the problems in some of the courses</td></tr>
<tr><td colspan="4">Actions Taken:

Action 1: Established a mechanism to review of the quality of internal assessment questions by a senior faculty.

Action 2: Additional classes were conducted for courses, where set targets were not achieved.</td></tr>
</table>

Action 3: A seminar on IoT was organized on 13th April 2015.			
P04: Conduct investigations of complex problems: Use research-based knowledge and researchmethods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
PO4	65%	67.47%	Target met
Action: **NIL**			
PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modernengineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.			
PO5	65%	65.91%	Target met
Action: **NIL**			
PO6 :The engineer and society: Apply reasoning informed by the contextual knowledge to assesssocietal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
PO6	65%	66.09%	Target met
Action: **NIL**			
PO7: Environment and sustainability: Understand the impact of the professional engineering solutionsin societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.			
PO7	65%	61.11%	No proper rubrics employed to assess the impact of seminar and projects on society and environment.
Action 1: Refine rubrics further.			
PO8: The engineer and society: Apply reasoning informed by the contextual knowledge to assesssocietal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
PO8	65%	68.44%	Target met
Action: **NIL**			
PO9: Individual and team work: Function effectively as an individual, and as a member or leader indiverse teams, and in multidisciplinary settings.			
PO9	65%	69.24%	Target met
Action: **NIL**			
PO10: Communication: Communicate effectively on complex engineering activities with the engineeringcommunity 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.			
PO10	65%	71.78%	Target met

Action: **NIL**			
PO11: Project management and finance: Demonstrate knowledge and understanding of theengineering 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.			
PO11	65%	66.76%	Target met
Action: **NIL**			
PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage inindependent and life-long learning in the broadest context of technological change.			
PO12	65%	65.33%	Target met
Action: **NIL**			

Table B.7.1.3 Academic year 2015-2016

PSOs	Target	Attainment	Observations
PSO1: Students shall have the knowledge of hardware, system software, algorithms, networking and data bases.			
PSO1	75%	81.18	Target Met
PSO2: Students shall design, analyze and develop efficient and secure algorithms using appropriate data structures, databases for processing of data.			
PSO2	75%	79.53	Target Met
PSO3 : Students shall be capable of developing stand alone, embedded and web-based solutions having easy to operate interface using software engineering practices and contemporary computer programming languages.			
PSO3	75%	75.55	Target Met

Table 7.1.4 Evaluation of PSOs for the academic year 2017-2018

PSOs	Target	Attainment	Observations
PSO1: Students shall have the knowledge of hardware, system software, algorithms, networking and data bases.			
PSO1	65%	69.89	Target Met
PSO2: Students shall design, analyze and develop efficient and secure algorithms using appropriate data structures, databases for processing of data.			
PSO2	65%	70.99	Target Met
PSO3: Students shall be capable of developing stand alone, embedded and web-based solutions having easy to operate interface using software engineering practices and contemporary computer programming languages			
PSO3	65%	69.93	Target Met

Table 7.1.5 Evaluation of PSOs for the academic year 2016-2017

PSOs	Target	Attainment	Observations
PSO1: Students shall have the knowledge of hardware, system software, algorithms, networking and data bases.			
PSO1	60%	60	Target Met
PSO2: Students shall design, analyze and develop efficient and secure algorithms using appropriate data structures, databases for processing of data.			
PSO2	60%	60.81	Target Met
PSO3 : Students shall be capable of developing stand alone, embedded and web-based solutions having easy to operate interface using software engineering practices and contemporary computer programming languages			
PSO3	60%	60	Target Met

Table 7.1.6 Evaluation of PSOs for the academic year 2015-2016

7.2. Academic Audit and actions taken thereof during the period of Assessment (10)

The institute established Internal Quality Assurance Cell (IQAC) in the year 2014 -15, whose major responsibility is to conduct periodical audits and take corrective/preventive measures for assuring/improving the academic performance.

Audit Process and its implementation:

1. One of the senior Professors of the institute is chosen as the director of IQAC. He with the consensus of the Principal constitutes a committee for assessing the academic performance of the different departments. The members in the audit committee are drawn from the IQAC, Heads of the various Departments and senior faculty in the institution.
2. On an average, two academic audits are planned for every semester
3. Every committee member is assigned with auditing of one or two departments
4. The auditor will visit the department as per the schedule givenby IQAC to inspect the correctness and completeness of academic documents:
    a. Planning of course delivery
    b. Quality of course outcomes
    c. Quality of learning materials
    d. Quality of internal assessment and assignment questions
    e. Quality of scheme of valuation
    f. Adherence to academic calendar
    g. Teaching methods incorporated
    h. Fairness in evaluation of internal assessment and assignments
    i. Support to the students
5. Auditor will then prepare a report of his findings and submits the same to the Director, IQAC and also shares it with Head of the Department.
6. Director, IQAC shall consolidate the reports submitted by all the members and prepares corrective/preventive actions as necessary.

7. The report of the Director, IQAC is submitted to the Principal to deliberate implementation of the suggested actions in the academic council.

The Head of the department discusses audit findings with the faculty and prepares plan of action in the DAC meeting for addressing any concern(s) raised by the auditor.

7.3. Improvement in Placement, Higher Studies and Entrepreneurship (10)

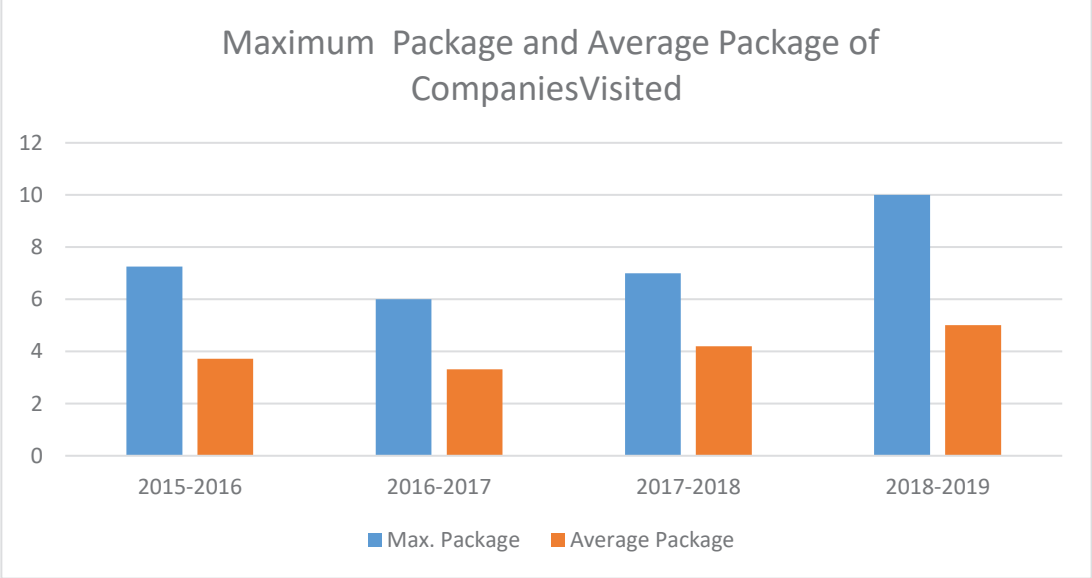
Assessment is based on improvement in:

Year	No. of companies visited	Number of students placed
2017-2018	20	67
2016-2017	20	82
2015-2016	15	92

Table 7.3.1 Student placement details for past 3 years

Year	Max. Package	Average Package
2018-2019	10 LPA	5.01 LPA
2017-2018	7 LPA	4.20 LPA
2016-2017	6 LPA	3.31 LPA
2015-2016	7.25 LPA	3.72 LPA

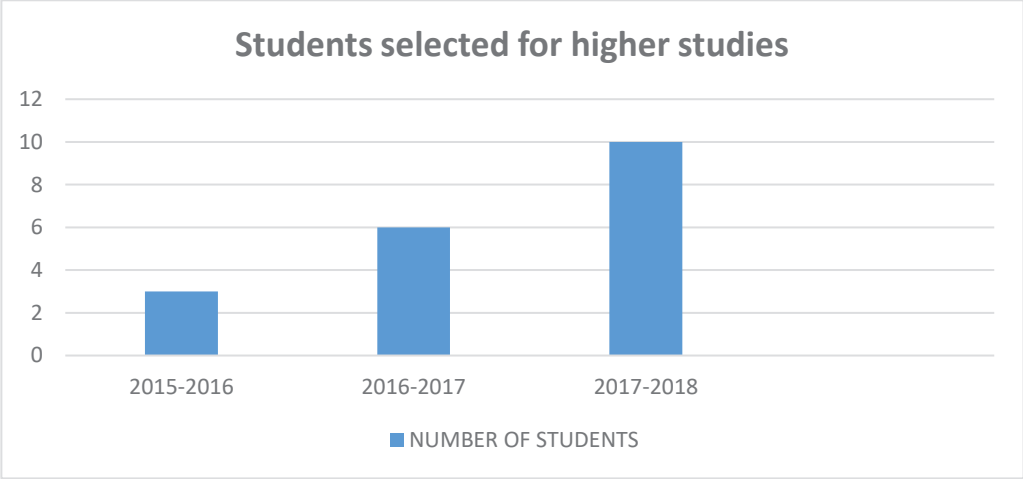
Table 7.3.2 Max. Package and Average Package of companies visited for past 3 years



Higher Studies

Year	Number of students selected for higher studies
2017-2018	10
2016-2017	06
2015-2016	03

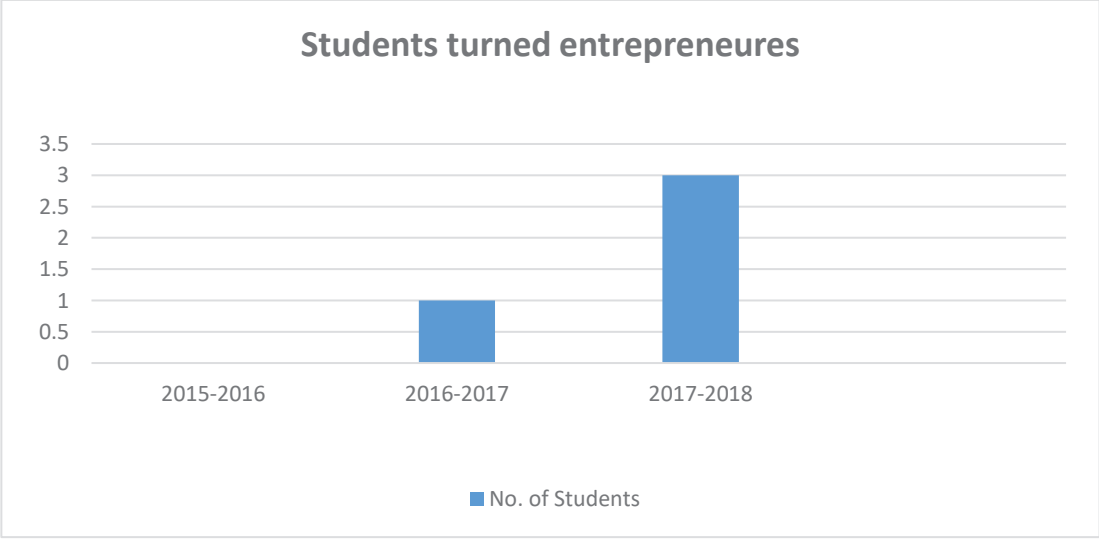
Table 7.3.3 Higher studies data for past 3 years



Entrepreneurs

Year	Number of students turned entrepreneures
2017-2018	3
2016-2017	1
2015-2016	-

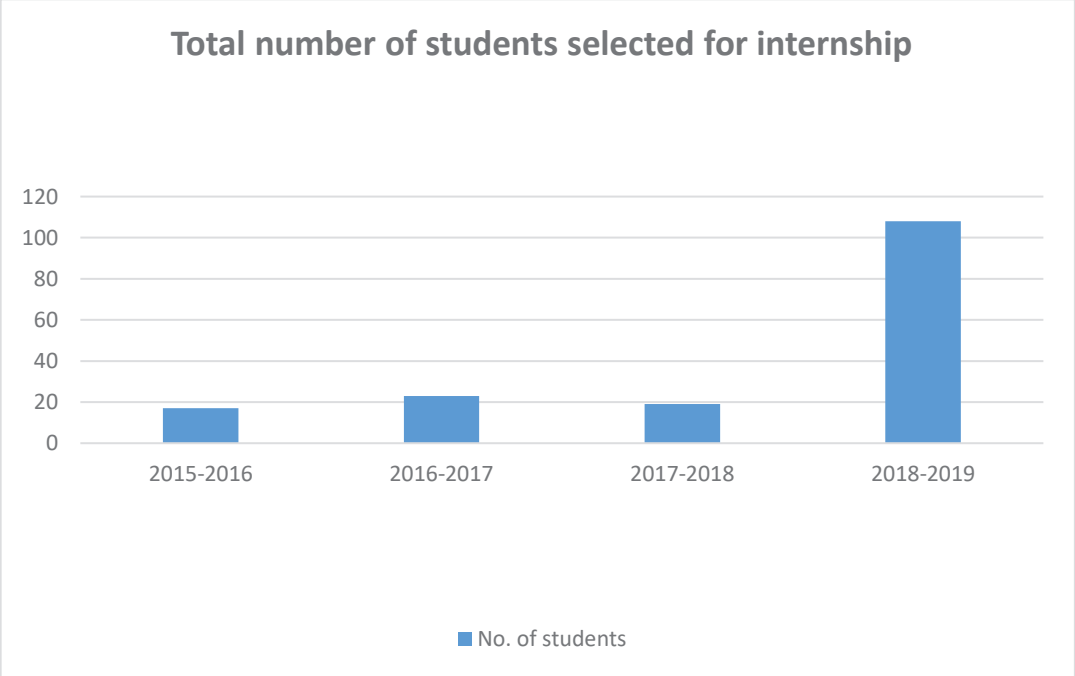
Table 7.3.4 Entrepreneurs data for past 3 years



Internship

Year	Total number of students selected for internship
2018-2019	108
2017-2018	19
2016-2017	23
2015-2016	17

Table 7.3.5 Internship data for past 3 years



Year	Number of students selected for internship with stipend
2018-2019	14
2017-2018	14
2016-2017	02
2015-2016	01

Table 7.3.6 Internship data for past 3 years (With stipend)

7.4. Improvement in the quality of students admitted to the program (10)

Entrance Examination	Closing Score/Rank	2018-19	2017-2018	2016-2017
National Level Entrance Examination	No. of Students admitted	-	--	--
	Opening Score/Rank	-	--	--
	Closing Score/Rank	-	--	--
Karnataka Common Entrance Test (CET)	No. of Students admitted	60	55	56
	Opening Score/Rank	5804	5810	5076
	Closing Score/Rank	20781	21712	17039
Consortium of Medical, Engineering and Dental Colleges of Karnataka (COMED-K)	No. of Students admitted	36	36	32
	Opening Score/Rank	6102	4201	7495
	Closing Score/Rank	15661	33951	51279
Karnataka Diploma Common Entrance Test (DCET)	No. of Students admitted	27	26	26
	Opening Score/Rank	551	5546	1801
	Closing Score/Rank	12217	17277	20573
Average CBSE/Any other Board Result of admittedstudents (Physics, Chemistry & Mathematics)		79.6	75.3	76.5

Table 7.4.1: Student admissions for past 3 years

CRITERION 8	First Year Academics	50

8.1. First Year Student-Faculty Ratio (FYSFR) (5)

Data for first year courses to calculate the FYSFR:

Year	Number of students (approved intake strength)	Number of faculty members (Considering fractional workload)	FYSFR	Assessment=(5x20)/FYSFR (Limited to Max.5)
2018-19	1020	59	17.2	5.81
2017-18	1170	60	19.5	5.12
2016-17	1170	57	20.5	4.87
Average	1120	58.6	19.0	5.00

Table B.8.1

8.2. Qualification of Teaching First year common Courses (5)

Assessment of qualification = (5x +3y)/RF,

x = Number of Regular Faculty with Ph.D.,

y = Number of Regular Faculty with Post-graduate qualification

RF = Number of faculty members required as per SFR of 20:1,

Year	X	Y	RF	Assessment of faculty Qualification(5x+3y)/RF
2018-19	10	49	51	3.86
2017-18	9	51	58.5	3.38
2016-17	11	46	58	3.29
Average Assessment				3.51

Table B.8.2 Average Assessment Calculation

8.3. First Year Academic Performance (10)

Item	2017-18	2016-17	2015-16
Mean of percentage of marks/Grade point average(X)	7.98	7.23	7.16
Total Number of successful students(Y)	116	115	116
No of students appeared in examination(Z)	125	130	129
AP=[X*(Y/Z)]	7.40	6.39	6.43
Average Academic Performance	6.73		

Table 8.3.1 Academic Performance at Department Level (CSE)

Branch/ Academic year	No. of students appeared in the exam	No. of successful students proceeded to 2nd year	Academic Performance AP = Mean of Successful Students X Successful Students/ No. of Students Appeared
2017-18			
ECE	105	99	7.15
CSE	125	116	7.40
ME	91	83	6.78
CV	114	88	5.64
MT	68	61	6.95
2016-17			
ECE	119	103	5.9
CSE	130	115	6.4
ME	119	92	4.5
CV	89	72	4.7
MT	67	54	4.5
2015-16			
ECE	114	97	5.4
CSE	129	116	6.44
ME	131	110	5.3
CV	114	91	4.8
MT	51	46	5.4

Table 8.3.2 Academic Performance at College Level

8.4. Attainment of course outcome of first year courses (10)

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

Assessment process for course outcomes (CO's) computation

<table>
<tr><td rowspan="2">Direct Assessment</td><td colspan="2">Continuous Internal Assessment (CIE) Marks</td><td colspan="2">60% (Weightage)</td></tr>
<tr><td colspan="2">Semester End Exams (SEE) Marks</td><td colspan="2">40% (Weightage)</td></tr>
<tr><td rowspan="4">CIE(Theory)</td><td colspan="2">Internal Assessment</td><td colspan="2">30</td></tr>
<tr><td colspan="2">Assignments</td><td colspan="2" rowspan="3">10</td></tr>
<tr><td colspan="2">Seminars</td></tr>
<tr><td colspan="2">Quiz</td></tr>
<tr><td>CIE(Lab)</td><td colspan="4">Divided in to two components</td></tr>
<tr><td rowspan="7">Marks breakup for Engineering chemistry Lab(17CHEL17)</td><td colspan="2">Continuous Assessment(30marks)</td><td colspan="2">Internal Assessment(10marks)</td></tr>
<tr><td colspan="2">➢ The student will be assessed during the performance of each experiment.
➢ Each experiment will be evaluated for 30 marks.</td><td colspan="2">After the completion of all experiments, an internal test shall be conducted for 100 marks and scaled down to 10 marks.</td></tr>
<tr><td>Attributes</td><td>Marks</td><td>Attributes</td><td>Marks</td></tr>
<tr><td>Procedure write-up</td><td>5</td><td>Procedure write-up</td><td>15</td></tr>
<tr><td>Conduction of Experiment</td><td>16</td><td>Conduction of Experiment</td><td>52</td></tr>
<tr><td>Calculations and Record submission</td><td>4</td><td>Calculations</td><td>18</td></tr>
<tr><td>Viva voce</td><td>5</td><td>Viva voce</td><td>15</td></tr>
<tr><td>Total</td><td>30</td><td></td><td>100</td></tr>
</table>

8.4.2. Record the attainment of course outcomes of all first-year courses (5)

2017-18

Course Code	Course Outcome	Target	CO attainment level	CO Percentage
17MAT11	17MAT11.1	70	2.53	84.47
	17MAT11.2	70	2.58	85.92
	17MAT11.3	70	2.51	83.78
17PHY12/22	17PHY12.1	70	2.62	87.45
	17PHY12.2	70	2.58	86.07
	17PHY12.3	70	2.42	80.55
17CIV13/23	17CIV13.1	70	2.24	74.63
	17CIV13.2	70	2.55	85.15
	17CIV13.3	70	2.40	79.86
17EME14/24	17EME14.1	70	2.44	81.33
	17EME14.2	70	2.44	81.33
	17EME14.3	70	1.60	53.33
	17EME14.3	70	1.60	53.33
17ELE15/25	17ELE15.1	70	2.44	81.30
	17ELE15.2	70	2.13	71.02
	17ELE15.3	70	1.88	62.62
17WSL16/26	17WSL16.1	70	2.64	87.93

	17WSL16.2	70	2.64	87.93
	17WSL16.3	70	2.64	87.93
17PHY17/27	17PHYL17.1	70	2.63	87.57
	17PHYL17.2	70	2.63	87.57
	17PHYL17.3	70	2.63	87.57
17MAT21	17MAT21.1	70	2.50	83.34
	17MAT21.2	70	2.50	83.31
	17MAT21.3	70	2.40	79.98
17CHE12/22	17CHE22.1	70	2.43	80.87
	17CHE22.2	70	2.36	78.55
17PCD13/23	17PCD23.1	70	2.32	77.40
	17PCD23.2	70	2.18	72.60
	17PCD23.3	70	2.18	72.60
17CED14/24	17CED24.1	70	2.59	86.33
	17CED24.2	70	2.59	86.33
	17CED24.3	70	2.59	86.33
17ELN15/25	17ELN25.1	70	2.42	80.67
	17ELN25.2	70	2.48	82.53
	17ELN25.3	70	2.44	81.33
	17ELN25.4	70	2.47	82.43
17CPL16/26	17CPL26.1	70	2.42	80.67
	17CPL26.2	70	2.48	82.53
	17CPL26.3	70	2.44	81.33
	17CPL26.4	70	2.47	82.43
17CHEL17/27	17CHEL27.1	70	2.78	92.73
	17CHEL27.2	70	2.78	92.73
	17CHEL27.3	70	2.78	92.73

2016-2017

Course Code	Course Outcome	Target	CO attainment level	CO Percentage
15MAT11	15MAT11.1	65	2.52	84.01
	15MAT11.2	65	2.56	85.46
	15MAT11.3	65	2.54	84.62
15PHY12/22	15PHY12.1	65	2.46	82.12
	15PHY12.2	65	2.45	81.62
	15PHY12.3	65	2.39	79.74
15CIV13/23	15CIV13.1	65	2.24	74.55
	15CIV13.2	65	2.19	72.91
	15CIV13.3	65	2.25	75.00
15EME14/24	15EME14.1	65	2.70	90.00
	15EME14.2	65	2.70	90.00
	15EME14.3	65	2.20	73.33
	15EME14.3	65	2.20	73.33
15ELE15/25	15ELE15.1	65	2.17	72.42

	15ELE15.2	65	2.06	68.60
	15ELE15.3	65	2.06	68.63
15WSL16/26	15WSL16.1	65	2.97	99.00
	15WSL16.2	65	2.97	99.00
	15WSL16.3	65	2.97	99.00
15PHY17/27	15PHYL17.1	65	2.39	79.53
	15PHYL17.2	65	2.39	79.53
	15PHYL17.3	65	2.39	79.53
15MAT21	15MAT21.1	65	2.33	77.71
	15MAT21.2	65	2.29	76.19
	15MAT21.3	65	2.26	75.32
15CHE12/22	15CHE22.1	65	2.56	85.33
	15CHE22.2	65	2.37	78.98
	15CHE22.3	65	2.16	71.97
15PCD13/23	15PCD23.1	65	2.53	84.27
	15PCD23.2	65	2.41	80.47
	15PCD23.3	65	2.42	80.67
15CED14/24	15CED24.1	65	2.39	79.67
	15CED24.2	65	2.39	79.67
	15CED24.3	65	2.39	79.67
15ELN15/25	15ELN25.1	65	2.45	81.67
	15ELN25.2	65	2.48	82.67
	15ELN25.3	65	2.54	84.67
	15ELN25.4	65	2.50	83.27
15CPL16/26	15CPL26.1	65	2.78	92.60
	15CPL26.2	65	2.78	92.60
	15CPL26.3	65	2.78	92.60
	15CPL26.4	65	2.78	92.60
15CHEL17/27	15CHEL27.1	65	2.90	96.67
	15CHEL27.2	65	2.90	96.67
	15CHEL27.3	65	2.90	96.67

2015-16

Course Code	Course Outcome	Target	CO attainment level	CO Percentage	Met/Not Met
15MAT11	15MAT11.1	60	2.34	77.93	Met
	15MAT11.2	60	2.27	75.65	Met
	15MAT11.3	60	2.37	78.90	Met
	15MAT11.4	60	1.97	65.64	Not Met
	15MAT11.5	60	1.77	59.16	Not Met
	15MAT11.6	60	2.38	79.17	Met
15PHY12/22	15PHY12.1	60	2.46	81.60	Met
	15PHY12.2	60	2.44	83.40	Met
	15PHY12.3	60	2.39	75.10	Met
15CIV13/23	15CIV13.1	60	2.23	70.57	Met

	15CIV13.2	60	2.18	72.82	Met
	15CIV13.3	60	2.24	73.12	Met
15EME14/24	15EME14.1	60	2.36	78.54	Met
	15EME14.2	60	2.36	78.54	Met
	15EME14.3	60	1.88	62.50	Not Met
	15EME14.4	60	1.42	47.29	Not Met
	15EME14.5	60	1.42	47.29	Not Met
15ELE15/25	15ELE15.1	60	1.88	62.80	Not Met
	15ELE15.2	60	1.49	49.73	Not Met
	15ELE15.3	60	1.86	62.13	Not Met
	15ELE15.4	60	1.88	62.53	Not Met
15WSL16/26	15WSL16.1	60	2.97	99.00	Met
	15WSL16.2	60	2.97	99.00	Met
	15WSL16.3	60	2.97	99.00	Met
15PHY17/27	15PHYL17.1	60	2.41	80.23	Met
	15PHYL17.2	60	2.41	80.23	Met
	15PHYL17.3	60	2.41	80.23	Met
15MAT22	15MAT21.1	60	2.16	71.98	Met
	15MAT21.2	60	2.18	72.59	Met
	15MAT21.3	60	2.09	69.51	Met
	15MAT21.4	60	1.85	61.83	Not Met
	15MAT21.5	60	1.78	59.26	Not Met
	15MAT21.6	60	1.79	59.71	Not Met
15CHE12/22	15CHE22.1	60	2.72	90.60	Met
	15CHE22.2	60	2.48	82.80	Met
	15CHE22.3	60	2.81	93.60	Met
	15CHE22.4	60	2.74	91.40	Met
	15CHE22.5	60	2.72	90.60	Met
	15CHE22.16	60	2.49	83.00	Met
15PCD13/23	15PCD23.1	60	2.57	85.73	Met
	15PCD23.2	60	2.46	81.93	Met
	15PCD23.3	60	2.34	77.93	Met
	15PCD23.4	60	2.60	86.73	Met
	15PCD23.5	60	2.45	81.53	Met
15CED14/24	15CED24.1	60	2.49	83.00	Met
	15CED24.2	60	2.49	83.00	Met
	15CED24.3	60	2.49	83.00	Met
15ELN15/25	15ELN25.1	60	2.16	72.09	Met
	15ELN25.2	60	2.16	72.09	Met
	15ELN25.3	60	2.16	72.09	Met
	15ELN25.4	60	2.16	72.09	Met
	15ELN25.5	60	2.16	72.09	Met
15CPL16/26	15CPL26.1	60	2.91	96.93	Met
	15CPL26.2	60	2.91	96.93	Met
	15CPL26.3	60	2.91	96.93	Met

	15CPL26.4	60	2.91	96.93	Met
	15CPL26.5	60	2.91	96.93	Met
15CHEL17/27	15CHEL27.1	60	2.87	95.67	Met
	15CHEL27.2	60	2.87	95.67	Met
	15CHEL27.3	60	2.87	95.67	Met

8.5. Attainment of Program Outcomes from first year courses (20)

8.5.1 Indicate results of evaluation of each relevant PO and/or PSO, if applicable (15)

Relevent POs	TAREGET LEVEL		
	2017-18	2016-17	2015-16
PO1	2.5	2.35	2.2
PO2	2.5	2.35	2.2
PO6	2.5	2.35	2.2
PO7	2.5	2.35	2.2
PO12	2.4	2.3	2.1

The first-year courses for all the UG engineering branches are handled by various departments, viz., Mathematics, Physics, Chemistry, ECE, EEE, Mechanical, CS&E,and Civil. These departments define the CO-PO correlation matrices for the corresponding subjects/ courses handled by them for all the branches of engineering i.e., the definitions are at the Institution level. The entries in the CO-PO correlation matrix are the correlation levels as defined in Criteria 3 & reproduced below.

Correlation Level Assignment				
Assignment Level	1	2	3	'- 'or no entry/blank
Description	Slightly correlated (Low)	Moderately correlate (Medium)	Substantially correlated (High)	Implies no correlation

PO attainment of all first-year courses is tabulated below

2017-18

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P010	PO11	PO12
17CIV13/23	2.63	2.62				2.63						
17EME14/24	2.72	1.60					2.4					2.02
17ELE15/25	2.15	1.97										2.13
17WSL16/26	2.64	2.63				2.64						2.64
17PHYL17/27	2.63	2.62										
17CHE12/22	2.39	2.36				2.36	2.4					
17PCD13/23	2.23	2.32										2.23
17CED14/24	2.59	2.59										2.59
17ELN15/25	2.46	2.47										
17CPL16/26	2.94	2.94										
17CHEL17/27	2.78	2.782				2.78	2.78					2.78
Direct Attainment*	**2.38**	**2.29**				**2.6**	**2.5**					**2.43**

Table B.8.5.1.1

*Direct attainment level of PO is determined by taking average across all courses addressing that PO.

2016-17

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P010	PO11	PO12
15PHY12/22	2.45	2.39										
15CIV13/23	2.24	2.24				2.2						
15EME14/24	2.56	2.2					2.7					2.45
15ELE15/25	2.09	2.05										2.06
15WSL16/26	2.9	2.97				3						2.97
15PHYL17/27	2.38	2.38										
15CHE12/22	2.4	2.22				2.4	2.4					
15PCD13/23	2.45	2.52										2.45
15CED14/24	2.39	2.39										2.39
15ELN15/25	0.9	0.84										
15CPL16/26	2.77	2.77										
15CHEL17/27	1.63	2.9				2.9	2.9					2.9
Direct Attainment*	**2.29**	**2.33**				**2.6**	**2.7**					**2.53**

Table B.8.5.1.2

2015-16

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P010	PO11	PO12
15MAT11/22	2.05	2.05										
15PHY12/22	1.84	1.72										1.83
15CIV13/23	2.57	2.57				2.40						
15EME14/24	1.88	1.25					2.09					1.67
15ELE15/25	1.96	1.97										1.90
15WSL16/26	2.01	2.01				2.01						
15PHYL17/27	2.16	2.16										
15CHE12/22	1.86	2.02				2.08	2.05					
15PCD13/23	2.24	2.22										2.30
15CED14/24	2.49	2.49										2.49
15ELN15/25	2.15	2.11										
15CPL16/26	2.80	2.80										
15CHEL17/27	2.48	2.02				2.48	2.48					2.48
Direct Attainment*	**2.16**	**2.11**				**2.24**	**2.20**					**2.11**

Table B.8.5.1.3

8.5.2. Actions taken based on the results of evaluation of relevant POs **(5)**

(The attainment levels by direct (student performance) are to be presented through

Program level Course-PO matrix as indicated)

PO Attainment Levels and Actions for improvement - CAY – Mention for relevant

POs

2017-18

POs	Target Level	Attainment Level	Observations

PO1: Engineering knowledge			
PO1	**2.5**	**2.38**	1. Students rarely have set carrier goals, so need orientation towards possible carrier options. 2. Faculty expressed disparity between the course content and the allotted number of lecture hours by university.
Actions: 1. One extra hour per week than the university prescribed number of hours is allotted to conduct tutorials to motivate students to improve their understanding in basic engineering subjects 2. Seminars and invited talks are arranged on need of basic concepts of first year topics in higher semester courses 3. Branch specific seminars by industry experts to give over view of latest technology			
PO2:: Problem analysis			
PO2	**2.5**	**2.29**	1. Students lacking in problem analyzing skills. 2. Faculty expressed students lack in understanding of basic concepts required for first year engineering subjects. 3. Student needed motivation to connect first year subjects to their chosen branch of engineering.
Actions: To Improve analytical thinking skills in first year engineering subjects following steps were taken 1. Group Activities to be conducted to enhance presentation skills & thinking skill etc. 2. Special classes to be conducted to revise prerequisite required for first year subjects. 3. Additional programs are solved in class hours and hands on to be conducted. 4. Encouraged to solve Additional problems to enhance the performance in solving the complex engineering Problems.			
PO6: The engineer and society			
PO6	**2.5**	**2.6**	Target Attained
PO7: Environment and sustainability			
PO7	**2.5**	**2.5**	Target Attained
PO12: Life-long learning			
PO12	**2.4**	**2.43**	Target Attained

Table B.8.5.2.1

2016-17

POs	Target Level	Attainment Level	Observations
PO1: Engineering knowledge			
PO1	**2.35**	**2.29**	1. Some students expressed use of audio video clippings in regular classes will give them better understanding of concepts. 2. Reduction in Results of problematic courses of first year engineering. 3. Students requested for industrial/museum visit for practical exposure of theoretical concepts.
Actions planned: 1. Use of innovative teaching methods (ITC tools) by all faculties in regular classes if needed. 2. Remedial classes shall be conducted to improve results. 3. Practical exposure of theoretical concepts by arranging industrial/museum visits			

4. In house Faculty development Programme on innovative teaching skills shall be organized to make newly added faculty to implement better TLP. 5. Students were motivated for engineering exam structure and study techniques required for semester pattern.			
PO2: Problem analysis			
PO2	**2.35**	**2.33**	1. Faculty expressed that the knowledge of fundamental in Physics Chemistry &Mathematics is insufficient to cope for the first-year engineering syllabus. 2. Students requested for type of university exam questions and some set of practice questions for developing confidence for external exams.
Actions planned. 1. Diagnostic test in Physics, Chemistry and Mathematics to analyze students entry-level problem-solving capacity 2. One-week induction Programme on teaching basic concepts of Engineering Physics, Engineering Chemistry& Engineering Mathematics. 3. Practice problems were given to solve in class under teacher supervision for all subjects.			
PO3: Design/development of solutions			
PO6: The engineer and society			
PO6	2.35	2.6	Attainment Reached
PO7: Environment and sustainability			
PO7	2.35	2.7	Attainment Reached
PO12: Life-long learning			
PO12	2.35	2.53	Attainment Reached

Table: B.8.5.2.2

2015-16

POs	Target Level	Attainment Level	Observations
PO1: Engineering knowledge			
PO1	**2.2**	**2.16**	1.Newly joined faculty expressed need for training in teaching methodology 2.Students finding difficult to adjust for engineering course pattern 3.Faculty couldn't complete syllabus due to heterogeneity of class which includes students from various states and countries
Actions planned 1. In house Faculty development Programme on innovative teaching skills to make faculty to implement better TLP. 2. Students were motivated for engineering exam structure and study techniques required for semester pattern. **3.** Extra classes to be conducted if faculty requires to complete syllabus following the TLP			
PO2: Problem analysis			
PO2	**2.2**	**2.11**	1. Some students who have not learnt basics of programming up to 12th standard need extra support in Programming courses. 2.Students had no exposure about applications of basic science in engineering 3. Majority of Students up to 12th standard are used to teacher supported learning process.

Actions Planned 1. Additional programs are solved in class hours and hands on conducted in labs. 2. Handouts covering problems and applications of various concepts were distributed 3. Question bank including previous University exams and some challenging questions to be given after completion of every module.			
PO6	2.2	2.24	Target attained
PO7: Environment and sustainability			
PO7	2.2	2.20	Target attained
PO12 :Life-long learning			
PO12	2.1	2.11	Target attained

Table: B.8.5.2.3

CRITERION 9	Student support system	50

9. STUDENT SUPPORT SYSTEMS (50)

9.1 Mentoring system to help at individual level (5)

Acharya Institute of Technology has a very strong system of mentoring to provide students a sense of security, bonhomie, guidance for academic and personal needs. A mentor or proctor, a member of the faculty, so entrusted with the responsibility, pays personal attention to and monitors students' academic progress in institution hours and behavioral attitude outside the campus.

A mentor records personal data of each student including parent contact details, regular attendance, academic and communication to parents into ERP portal of the institute. The Chief

Proctor, Head of the Department and the Principal has access to ERP data of the students and intervene if necessary. This process helps to closely monitor student's progress in terms of his/her attendance, academic performance, behavior and learning capabilities. Also it helps to identify, outside the curricular requirements, the student's habitual deviations and attitudinal aberrations, utilization of facilities and associative growth of personal attributes.

The system provides an early warning through the mentor's feedback on a periodic basis to the parents/guardians, heads of departments, class teacher, course instructor, Principal. The mentors, counselors, conduct psycho-social counseling.

The process of mentoring consists of

1) A student after admission to the programme is allotted a mentor by the department and communicated through the chief proctor.
1) The students meet the mentor and his/her record is created in ERP.
2) Mentor and the students meet fortnightly as per schedules.
3) Mentor reviews the academic and all-round progress of the mentees and makes the record of observations.
4) An SMS/ email are used to communicate the progress/observations to the parents/guardians.
5) In case of nonperformance, the mentor speaks to the parents and briefs them the possible measures to improve the students' performance.
6) Parents are also encouraged to contact the mentor to keep track of the ward.
7) All communications with parents/guardians are recorded electronically in https://www.acharyainstitutes.in/
8) The placement cell briefs the need of training for soft skills, analytical skills and life skills to aspire for the career goal.

9) The training to the placements is planned for all the four years integrating the training into the academic calendar.
10) Profiling of the student is carried out at the beginning of the first year to understand his/her learning abilities and suggest the way of learning.
11) A three-week induction programme in line with the AICTE guide lines is carried out from the academic year 2018-19 emphasising on professional ethics and values.

9.2. Feedback analysis and reward /corrective measures taken, if any (10)

YES, the feedback is collected on teaching learning process, support for curricular and extracurricular activities, the hostilities give feedback on living and food thorough online system.

Student feedback is analyzed by HOD, warden and administrative heads. Any grievances are addressed by bringing into the notice of the principal and all concerned.

9.3. Feedback on facilities (5)

Assessment is based on student feedback collection, analysis and corrective action taken.

Feedback is taken on teaching, infrastructure for learning, the learning environment, and learning resources. In case of difficulty in learning from a faculty discussion are held with the concerned faculty and supported to overcome the grievances. Any infrastructure requirements are assessed and procurement / provisions of the facility is provided. The library provides all learning resources required by procuring all subscribing. In hostels the grievances are addressed by the chief warden and the wardens for any shortcomings

The grievances are also considered through the feedback given by the parents during the parents-teachers meeting conducted every semester. These grievances are addressed and actions taken accordingly.

9.4. Self-Learning (5)

- Learning at Acharya Institute of Technology is student-centric encouraging students self-learning. The assignments and exercises are provided to learn individually and team.
- Projects are encouraged to implement the concepts learnt.
- Encouraged to use e-learning resources of NPTEL, UDACITY, MIT-OCW, EDX and KHAN academy which can be accessed on local area network by the students.

Figure 9.4a NPTEL certificate by student

- 24x7 Wi-Fi network of 1Gbps is a back bone of learning through e-resources.
- Industrial training/Internships help in enhancing learning capability.
- The department's forums and technical clubs activities exposing the students to newer technologies, process and products.

Table 9.4a Department forums

Name of the department	Forum Name
Aeronautical Engineering	Udaan
Automobile Engineering	Cruze
Bio Technology	Bio-Infinity
Civil Engineering	Srujan
Computer Science and Engineering	Lakshya
Construction Technology and Management	Tecton
Electronics and Communication Engineering	Spectra
Electrical and Electronics Engineering	Elexso
Information Science and Engineering	Stigen
Mechanical Engineering and Manufacturing Science and Engineering	Fame
Mechatronics	Renisanse
Mining Engineering	Magnum
Master of Business Administration	Pragma
Master of Computer Applications	e-Disha

- The student chapters such as ISTE, ASME, IEEE, IEI, CSI, ASAE support self learning by conducting technical activities.
- Departments organize alumni expert series, which gives platform for students to interact and learn from their seniors.
- Institute supports students to take up projects by funding and showcasing in workshops, conferences and exhibitions.
- Experts from reputed Industries/R and D organization are invited to the campus to deliver their expertise provide a platform for student interaction.
- A common English and language laboratory helps to improve the communication.

- Field trips, survey camps and industrial visits are arranged.
- Seminars and presentations are held on regular basis.

9.5. Career Guidance, Training, Placement (10)

The institution has a structured and organized training and placement cell. Domain specific training and skill-based trainings through outsourced agencies and in-house training is conducted during four years of programme. In the last three years

Career guidance

All the students of Acharya Institute of Technology are provided with intense and multidimensional career guidance throughout the course duration. Professional organizations and consultants/experts in higher education conduct seminars and counselling sessions, group wise. Special emphasize is given to induce students to undertake higher education in forms of master degree, doctoral degrees in India and abroad.

Training and placement facility

Acharya Institute of Technology has an exclusive training department which takes care of the training needs of all its departments. The training imparted includes aptitude, communication, analytical reasoning, problem solving along with the basic etiquettes. In addition domain training for the respective departments is provided both by the centralised training department as well as from the departments themselves.

The placement at Acharya campus is a dynamic, real-time process which is inclusive, proactive, ambitious and wholesome. The placement process is constantly tuned based on industry need and feedback. The placement cell monitors the employment opportunities and arranges campus recruitment process interviews for the final year students and provides internship opportunities for pre-final year students. A dedicated training and placement cell

works round the year to provide efficient, effective training and employment opportunities for all the students.

Industrial Visits

Industrial visits are organized by all the departments to ensure practical and industrial exposure to students. The students acquire ample knowledge on current trends in technology through real time learning based on the actual industrial standards and practises.

GATE, GRE, TOEFEL Training

Each department has a GATE coordinator who coordinates GATE training to students of the respective department with the support of all faculty in the department. The English Language Lab provides necessary support required by students for GRE and TOEFEL. The students are also given the opportunity to learn foreign languages required for jobs and higher studies in countries like Germany, France and Japan.

Workshops and Seminars

Workshops, Seminars and Guest lectures are organised in respective departments where industrial experts are invited to deliver lectures and conduct workshops in order to create awareness among the students about the latest trends in industry and research. The students also acquire hands on experience during the sessions.

Figure 9.5a: Guest Lectures by industrial experts.

Figure 9.5b: Industrial Visit and Students at Krishi Mela

9.6. Entrepreneurship Cell (5)

Acharya Institute of Technology has incubation cell to convert innovative ideas into products. To encourage entrepreneurial skills, institute has started Technology Business Incubator (TBI), to nurture and leverage innovative minds in embracing on sustainable business.

Objectives

1) To foster innovative ideas and support sustainable growth
2) To create a viable entrepreneurial ecosystem

Impact of the efforts

A good number of student projects have been undertaken under the SASKEN innovation laboratory

Some of the noteworthy ones are mentioned below.

1) 4KUHD- Modify the existing H.265 codec to make it efficient in terms of Power and resolution for UHD TV's
2) Audio analysis- to extract the information and meaning from audio signals for analysis, classification, storage in the development of new audio-related products and services.
3) I See You- a Java based GUI that can be used to locate persons
4) RFID-range extender by developing RF repeaters
5) Master hub- a low cost universal master hub device that can be used for multiple applications
6) Mobile hearing aid-Mobile phone-based body ware digital hearing aid (MBW) device
7) ANNOVIL- Vehicle to vehicle communication through light
8) Object locator- a low cost object locator device that can be used for multiple applications
9) Mobile Glass- android application that can be used as reading glass/ magnifying glass
10) Lane departure detecting system in highway
11) Students and faculty mentors have participated in Smart India Hackathon and Chattra Vishwakarma Projects Award competition for the consecutive last two years.

Some of the successful enterprises incubated under the IBM Acharya Incubation Centre are:

1) INFOBOUTIQUE - Fully incubated and product launched in the market
2) TECHNOCRAT - Incubation done at Acharya incubation centre
3) CODE PIP - Incubation done at Acharya incubation centre

4) ATOM ROBOTICS - Incubated by Mechatronics Engineering students and robot called Jarvis sent for Patenting
5) SKY IMAGINATIONS - one developed by Mechatronics Engineering student and one being used commercially
6) MAVITRONICS –Student's from Mechatronics who successfully developed a 3D printer and for which they have won several national prizes

Some of the projects have been taken for commercialisations with various industries are as follows:

1) 3D Printer(Machine)
2) Automated coir-plyer
3) Multipurpose wheelchair for Neurologically Disabled People
4) Development of noise contour for Bangalore city
5) *In vitro* Anti diabetic Study by Glucose uptake assay on Skeletal Muscle cell line and Glut4gene expression studies
6) Auto irrigation based on IOT
7) Floating solar panel
8) Prototype of UAV for agricultural applications
9) MUD concrete block using C and D waste

Collaboration with Foreign Universities to Enhance and Encourage Entrepreneurship

Acharya Institutes has MOU's with the following universities in the areas of student and faculty exchange, research collaboration, internships, joint programs etc. to enhance Entrepreneurship among the students. Under these MOU's our students are engaged in Research Projects under the mentorship of the Foreign University and the same is completed in a period of about 8-10 months and finally the best students are selected to do an internship at the respective University. We have MoUs with Universities and with Industries

Last year 13 students went to ODU, 14 students went to Carleton University and 15 went to Lubbock, Germany for internship. This year also, 13 students at ODU and 30 students at Northern Illinois University are expected to do internship.

Few of these students are continuing their work with the mentors from the ODU.

Alumni network

Acharya Institute of Technology has a well-established alumni network comprising of about more than 15000 students who have graduated from our institution of which over 100 students have become entrepreneurs.

Network with various industries and industrial associations

Acharya Institute of Technology has understandings with various industries and industrial associations. Some of these are as mentioned below:-

National Aeronautics Ltd, Sasken Communication Technologies Limited, Moog India Tech. Centre, IBM India Pvt. Ltd., UTL Tech. Pvt. Ltd., SAP India Pvt. Ltd., Dynamatic Technologies Ltd, Prasiddi Engineers, Trinity Institute of NDT Technology, Mahindra and Mahindra Ltd., Infosys Campus Connect Program, Edall Systems, TIME.

Network with foreign institutions

Acharya Institute of Technology has a very good network with several foreign institutions. Some of these are 1)Illinois Institute of Technology, Chicago, USA 2)Florida International University, Florida, USA 3)Northern Illinois University, Dekalb, Illinois, USA, 4)Harrisburg University, PA, USA, 5)Carleton University, Ottawa, Canada, 6)Trinity Western University, Canada, 7)Old Dominion University, Norfolk, USA, 8)University of Illinois, Rockford, USA, 9)The University Institute of the Coast, Cameron, 10) Waljat Institution of Applied Sciences, Muscat, Sultanate of Oman,11)University of Applied Sciences, Lubeck, Germany

Evidence of success

Details on entrepreneurship orientation for faculty/and proposed AITBI team.

Acharya Institutes TBI has entered into a MoU with Entrepreneurship Development Institute of India (EDII), Ahmedabad, and a pioneer institution in the field of entrepreneurship education. To ensure that all the AI-TBI members have a common understanding of entrepreneurship and management of an Incubation Centre, EDII designed a bespoke training program.

A 20 member team underwent the training workshop that was spread over four days residential program at EDII, Ahmadabad. The program was delivered by resource persons from various segments of the startup ecosystem and included Incubation.

The program also involved interaction with the CIIE, IIM-Ahmadabad. The core team is also interacting with NSRCEL, the Incubator at IIM, Bangalore. AI-TBI members are already exposed to entrepreneurship.

Problems encountered and resources required

Since BOX-AITBI is at its inception and yet to convert an idea in to incubation. Till now it is more of discussions and sharing of ideas and handholding. No specific difficulties have been noticed. Table shows a few prominent startups by AIT alumnii

Table 9.6a Startups by AIT alumni

Name of the Alumni	Organization/Company	Website
Hirpararavi	Nixapp technologies	http://www.nixapp.com
Sauravchoudhary	Shree Balajee industries	http://www.shreebalajiindustries.org
Parsanavipul	Swat Info system	http://www.swatinfosystem. com
Manoranjanjena	Jena informaticspvt. Ltd.	http://www.jenainformatics. com
Revathy K	Finsol	http://finsolconsultancy.com
Nisha G and Mahanthesha H	Keenkite It Solutions Pvt. Ltd.	http://www.keenkite.com/

Ashwin B N	THT Technologies	http://www.thttechnologies.com
Lakshmikanth	Quals Technologies Pvt Ltd.	http://www.qualstech.com
Bhojrajsahu	Jena informaticspvt. Ltd.	http://www.jenainformatics.com
Luitjyoti and kanhaiyalal	Signoryle solutions	http://www.signoryle.com
Balajij, website:	Shoot bob	http://www.shootbob.com/
Jasmeetsingh	Softlogique it solutions (p) ltd	http://www.softlogique.com
Ketanjaiswal	Director, hsrk foods and beverages pvt. Ltd	http://wwwaurnate.com
Aravind G.	DOGMA GLOBAL	http://dogmaglobal.com/
Naveen P	Npn-12 Service Network, Bangalore	http://npn12.com/
Parthsharma	Knight srobocorp, Bangalore	http://knightsrobocorp.com
Prakash Ranjan	Asperify Technologies	http://aspirify.in

9.7. Co-curricular and Extra-curricular Activities (10)

The institution has the policy to identify and nurture the talents among the students. At the beginning of the every academic year during induction program students are appraised about facilities and opportunities to exhibit their talent by participating in extracurricular and co-curricular activities.

Also scheduling the events are sent through circulars and campus network e-news. Strategies for scouting and nurturing the talents in sports, cultural activities and debates/discussions and quiz/competition are by holding institutional level competitions and also by participating in other institution program Following are some of the strategies adopted to promote students participation in extracurricular and co-curricular activities.

1) Students are allowed to participate in various intra and inter institution competitions like, Technical quiz/symposiums to develop their competition skills.

2) Various sports activities are well published on the notice board and campus News e-network. The interested students are subjected to selection process, talented and eligible students are encouraged to improve the skills and participate in different events. Students after getting medals are honored/acknowledged through institution website and news Acharya
3) Every department on campus has a forum and here technical skills, technical competitions like Robo soccer, technical seminar, debits, paper presentation, guest lecture etc. are organized.
4) Cultural events are regularly planned within the university level and inter institution. After proper rehearsal different groups are identified to participate and represent at the inter institution and university level youth festivals.
5) The Department of Physical Education and Sports has six dedicated sports teachers for different kinds of games and organize many sports events.
6) Tennis court, Basketball court, cricket stadium, Volley Ball, Badminton, Table Tennis, Kabaddi, Kho-Kho, Shuttle Badminton, Weight Lifting and Power Lifting, Softball, Archery and indoor games facilities are available on campus. Horse riding training is given for the interested students. College has multipurpose stadium with a capacity of 20,000, which caters to events like Cricket, Foot Ball, Hockey, Softball, Handball and Athletics.
7) The Department faculty and student representatives from Cultural committees. This committee will identify students having interest in cultural activities and encourage/support them to participate in the institution day function/other institution.
8) Seminar halls & auditorium are available for performing events.

Additional academic support

1) Students represented state/nation at junior level is given scholarships during admissions.
2) Attendance benefit is given to students as and when they represent the Institution, University or National level sports as well as Cultural events.
3) Special classes and Makeup Internal assessment tests are conducted for those students who tend to miss their regular academic classes on account of extracurricular and co-curricular activities.

Special dietary requirements, sports uniform and materials

Special dietary requirements, sports uniform and materials are provided, during practice and match sessions.

1) Uniforms and ID cards are provided to all sports teams representing the institution.
2) Sports materials and kits are provided whenever necessary.
3) During matches, TA and DA are given as per the norms fixed by Sports Committee of the Institution.

Any other

1) Every year, for first year students science department conducts activities under "Science Forum" in which students are allowed to participate in events like Quiz, Poster presentation, Fun with Maths, Mathematical modeling.
2) Each Department has an association namely Forum, Lakshya, Spectra etc which conduct various programs like Technical quiz, collage etc. This helps students to gain confidence in communication, organizing capability, budgeting, leadership, fund management, and team building.
3) Every year Kreeda habba is celebrated as a part of Acharya Habba, where maximum students participate in Athletics and in games like volleyball, basketball, chess etc.

4) To encourage Cricket interest among the students, Acharya Premier League (APL) is conducted by the institution with cash prize of Rs.70,000 for winning team.
5) Acharya Institute of Technology also has horse riding training and facility.
6) The institute also has Archery training facility.
7) The institute also has a nature club to create environment and societal importance.


Figure 9.7a: Acharya Premier League


Figure 9.7b: Graduation Day Celebration at AIT

Figure 9.7c: Kannada Rajyotsava Celebration at AIT

Figure 9.7d: Outbound Training Program for First Year BE studentsebrations

Figure 9.7e: Onam Celebrations

Figure 9.7f: Acharya received cash prize of 1,00,000. **Figure 9.7f1 Acharya Football League**

Figure 9.7g: SAEINDIA REEV Virtuals

Figure 9.7h: Horse Riding Facility

Table 9.7a: Sports and Cultural Achievers

Year	Name of the award/ medal	National/ International	Sports/ Cultural	Name of the student
2015-16	Inter University	South Zone	Sports	Charan V P
2015-16	Inter University	South Zone	Sports	Manjunath Swamy
2015-16	Inter University	South Zone	Sports	Kruthi j Rao

2015-16	Inter University	South Zone	Sports	Lahari Shree Y
2015-16	Inter University	All India	Sports	Harsha M V
2015-16	1 Bronze	All India	Sports	Shirisha K
2015-16	Inter University	South –Zone	Sports	Harshitha S J
2015-16	Inter University	South –Zone	Sports	Jai Kiran
2015-16	Inter University	South –Zone	Sports	Srushti K
2015-16	Inter University	All India	Sports	Mahalakshmi
2015-16	Inter University	All India	Sports	Surekha hiroli
2015-16	Inter University	All India	Sports	Disha Niranjan
2015-16	Inter University	All India	Sports	Adithya K E
2015-16	Inter University	All India	Sports	Swathi K H
2015-16	Inter University	All India	Sports	Monish M
2015-16	Inter University	All India	Sports	Prajwal S
2015-16	Inter University	All India	Sports	Rohith Sriranga K S
2016-17	Inter University	South Zone	Sports	Aishwarya Basker
2016-17	Inter University	South Zone	Sports	Neetu Kadam
2016-17	Inter University	South Zone	Sports	Adarsh M S
2016-17	Inter University	South Zone	Sports	Sushma Bhat
2016-17	Inter University	All India	Sports	Bharath M C
2016-17	Inter University	All India	Sports	Thevadas Visvajith
2016-17	Inter University	All India	Sports	Lakshmisree M O

2016-17	Inter University	All India	Sports	Adithya K E
2016-17	Inter University	All India	Sports	Swathi K H
2016-17	Inter University	All India	Sports	Rakshith S
2016-17	Inter University	All India	Sports	Surekha hiroli
2016-17	Inter University	All India	Sports	Neetu Kadam
2016-17	Inter University	All India	Sports	Aishwarya Yadav S
2017-18	Inter University	South Zone	Sports	Sushma Bhat
2017-18	1 Bronze	South Zone	Sports	Madhan Kumar S
2017-18	1 Bronze	South Zone	Sports	Charan V P
2017-18	Inter University	South Zone	Sports	Raghavendra M D
2017-18	Inter University	All India	Sports	Khushnaaz Soni
2017-18	Inter University	All India	Sports	Mohammed parvez R S
2017-18	Inter University	All India	Sports	Sumeeth B S
2017-18	Inter University	All India	Sports	Prashanth M
2017-18	Inter University	All India	Sports	Shrigouri Jumnalkar
2017-18	Inter University	All India	Sports	Disha B S
2017-18	Inter University	All India	Sports	Adithya K E
2017-18	Inter University	All India	Sports	Shrigouri Jumnalkar
2017-18	Inter University	All India	Sports	Likitha S
2017-18	Inter University	All India	Sports	Charan V P
2017-18	Inter University	All India	Sports	Madhan Kumar S

2017-18	Inter University	South Zone	Sports	Sharath G S
2017-18	Inter University	South Zone	Sports	Roshan I M
2017-18	Inter University	Federation Cup	Sports	Mohammed parvez R S
2017-18	Inter University	Senior Nationals	Sports	Likitha S
2017-18	Inter University	Senior Nationals	Sports	Madhan Kumar S
2017-18	Inter University	Senior Nationals	Sports	Charan V P
2017-18	Inter University	Senior Nationals	Sports	Supriya M
2017-18	Inter University	Senior Nationals	Sports	Aishwarya Yadav S
2017-18	Inter University	Senior Nationals	Sports	Prashanth M
2017-18	Inter University	Senior Nationals	Sports	Mohammed parvez R S
2017-18	Inter University	Senior Nationals	Sports	Lakshmisree M O
2017-18	Inter University	Senior Nationals	Sports	D Srinivas
2017-18	Inter University	Senior Nationals	Sports	Adithya K E
2017-18	Represented India	International	Sports	Vishnu K K
2015-16	1st Place	National	Cultural	Arya V
2016-17	3rd Prize	University	Cultural	Chinmay Bhat & Soumya G Bhat

ACHARYA HABBA

Every year Acharya Habba a techno-cultural festival is celebrated in the month of March. The extravaganza is considered as the most happening event among all engineering colleges in Bangalore.

The event witnesses variety of events both technical and cultural events. A due recognition is given to all foreign nationals to exhibit their tradition and culture in terms of International Habba.

Figure 9.7i: Acharya Habba

(*The institution may specify the co-curricular and extra-curricular activities*)*(Quantify activities such as NCC, NSS etc.)*

NSS Unit of the college

National Service Scheme is a student centered programme and it is complementary to education. It is a noble experiment in academic extension. It inculcates the spirit of voluntary work among students and teachers through sustained community interaction. It brings our academic institutions closer to the society.

It is a link between the campus and community, the college and village, knowledge and action.

The overall aim of NSS is the Personality Development of students through community service. It gives an extension dimension to Higher Education system and orients the student youth to community service.

Objectives

The broad objectives of NSS are to:-

- Understand the community in which they work and in relation to other community
- Identify the needs and problems of the community and involve them in problem solving process;
- Develop among themselves a sense of social and civic responsibility;
- Develop capacity to meet emergencies and natural disaster and Practice national integration and social harmony.

Table 9.7b: Composition of the NSS Cell:

Sl. No.	Name	Designation	Role
1.	Dr. Prakash M R	Principal	Chairperson
2.	Dr. S M Gopinath	Prof and HOD, BT	Chief Program Officer
3.	Dr. Aruna M	Asst. Prof., EEE	Coordinator
4.	Mr. Praveen B B	Asst. Prof., ME	Coordinator
5.	Mr. Narasimhamurthy	Asst. Prof., MI	Coordinator
6.	Ms. Thriveni	Asst. Prof., BT	Member
7.	Mr. Mahanthayya	Asst. Prof., AE	Member
8.	Mr. Mallikarjun	Asst. Prof., Phy	Member
9.	Mr. Satish K B	Asst. Prof., Chem	Member
10.	Ms. Bhagirathi	Asst. Prof., MT	Member
11.	Mr. Chetan	Asst. Prof., Maths	Member
12.	Mr. Dhananjaya	Asst. Prof., CV	Member
13.	Mr. Swamy M R	Asst. Prof., MCA	Member
14.	Mr. Avinash	Asst. Prof., CSE	Member
15.	Mr. Arun Kenchapur	Asst. Prof., ISE	Member
16.	Ms. Nagapushpa	Asst. Prof., ECE	Member
17.	Mr. Prajwal	Asst. Prof., AU	Member

18.	Mr. Lohit	Asst. Prof., MS	Member
19.	Mr.Suhas Patil	Asst. Prof., MBA	Member

Number of activities were held under the guidance of NSS cell and are shown in the following table

Sl.No	Name of the activity	Organising unit/ agency/ collaborating agency	Year of the activity	Number of teachers participated	Number of students participated in such activities
1	Blood Donation Camp	Acharya Institute of Technology	2018	18	200
2	Digital Banking and Related mobile Application uses	Seven days NSS Special Camp at Hoskere, GubbiTaluk, Tumkur District	2017	14	100
3.	International Earth Day and Seed Bomb Program	NSS and Acharya Institute of Technology	2018	18	250
4.	Blood donation camp organised by INDIAN RED CROSS SOCIETY	Indian red cross society, Karnataka state Branch	2018	25	100
5.	Blood Donation Camp	NSS and Lions Blood Bank	2018	15	519
6.	National service scheme (NSS) Special camp	Acharya institute of Technology with National Service Scheme (NSS) and VTU Hoskere Gubbi Taluk, Tumakuru(Dist)	2017	10	60
7.	Blood Donation Camp	Lions Blood Bank	2017	20	88

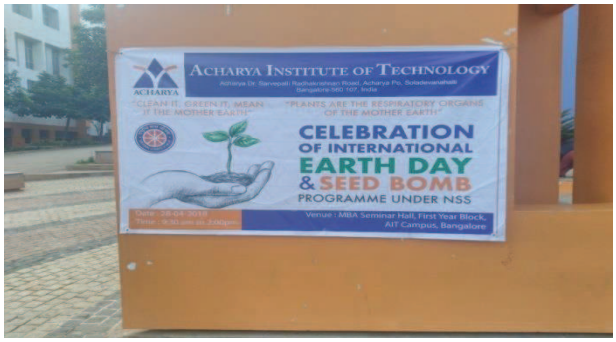


Figure 9.7j: Celebration of Earth Day and Seed Bomb Program under NSS




Figure 9.7k: NSS Camp at Hoskere Gubbi Taluk, Tumakuru(Dist)-Plantation, Yoga and Cultural


Figure 9.7l: NSS Camp at Hoskere Gubbi Taluk, Tumakuru(Dist)-Swachh Bharath

Figure 9.7m: NSS Camp at **Hoskere Gubbi Taluk, Tumakuru(Dist)-Health Camp**

Figure 9.7n: Blood Donation Camp

Figure 9.7o: Guinness World of Records

NCC at AIT

A NCC COY (9 KAR BATTALION) is also available in the campus where students of AIT are a part.

Motto of NCC:"Unity and Discipline".

Aims and Objectives of NCC

To create a human resource of organized, trained and motivated youth, to provide leadership in all walks of life and be always available for the service of the nation.

To provide a suitable environment to motivate the youth to take up a career in the Armed Forces.

To develop character, comradeship, discipline, leadership, secular outlook, spirit of adventure, and ideals of selfless service amongst the youth of the country.

Figure 9.7p: NCC Parade on Independence Day

Figure 9.7q: Guard of Honour to Chief Guest by NCC students

CRITERION 10	**Governance, Institutional Support and Financial Resources**	**50**

10. GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

10.1 Organization, Governance and Transparency (40)

10.1.1 State the Vision and Mission of the Institute (5)

Vision:

"Acharya Institute of Technology, committed to the cause of sustainable value-based education in all disciplines, envisions itself as a global fountainhead of innovative human enterprise, with inspirational initiatives for Academic Excellence."

Mission:

"Acharya Institute of Technology strives to provide excellent academic ambience to the students for achieving global standards of technical education, foster intellectual and personal development, meaningful research, ethical, and sustainable service to societal needs."

The vision and mission statements are communicated to all the staff, students and parents and stake holders through the institute website, prospectus, and induction programme, back cover page of blue books, departmental newsletter, and institute magazine. These statements are also displayed at prominent places of the institute.

Values: Pursuit of Excellence

Integrity and Transparency

Leadership

Motto "Nurturing Aspiration and supporting Growth"

10.1.2 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

List the governing, senate and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; and attendance there in, in a tabular form. A few sample minutes of the meetings and action-taken reports should be annexed. The published rules including service rules, policies and procedures; year of publication shall be listed. Also state the extent of awareness among the employees/students.

Acharya Institute of Technology is having well defined Governing Structure under the aegis of JMJ Education Society Governed by the Secretary of the Society Shri B.Premnath Reddy, is followed by the Governing Council consisted as per the governing rules of AICTE, IQAC, Academic, Administrative and other supporting functionalities. The organization structure followed for the regular governance of both academic and administrative activities as shown in the Fig: 10.1.

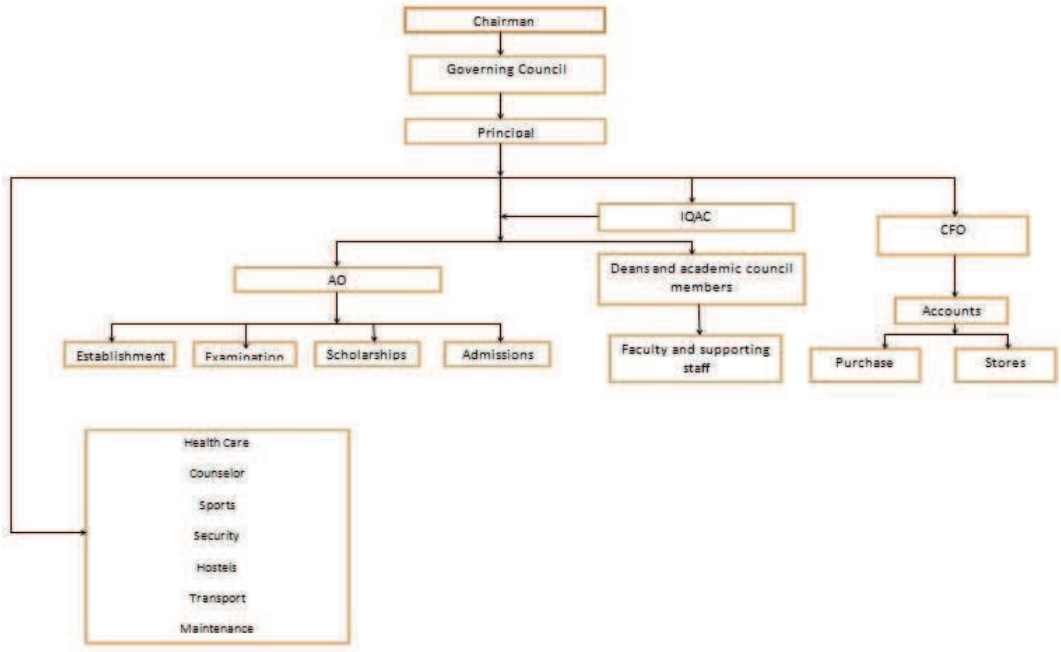


Fig: 10.1: Organization structure of the Institute

The composition, roles, responsibilities, functions and frequency of meeting of each defined functionalities are as follows:

GOVERNING COUNCIL (GC):

Composition of the council

The composition of this Council comprised of representatives from Industry, academic and statutory regulatory bodies shown in the Table 10.1a.

Table 10.1a: Composition of the Governing Council

Sl no.	Name	Designation

1	Mr. B. PREMNATH REDDY, Founder Chairman, Acharya Institute of Technology	Chairman
2	Dr. K. RAMACHANDRA , Former Director, GTRE, Bangalore	Member
3	Mr. GEORGE PUNNOOSE ,Chief Operations Officer, Kalkitech	Member
4	Dr. H. N.SHIVA SHANKAR, Director, RNSIT, Bangalore	Member
5	Dr. D.K. SUBRAMANYAM, RETD. Prof. IISc, Govt. Nominee	Member
6	Dr. R. NATARAJAN , Former AICTE Chairman	Member
7	Director of Technical Education, Govt. of Karnataka, Bangalore.	Member
8	Mr. VENKAT SATHISH, VTU Nominee	Member
9	Regional Officer, AICTE, SWRO, BANGALORE.	Member
10	Dr. RAJESWARI, Prof. &HOD-E&CE, Representative of faculty	Member
11	Dr. Y. VENKATARAMI REDDY, Former, Vice-Chancellor, JNTU	Member
12	Dr. PRAKASH M R, Principal, Acharya Institute of Technology	Member secretary

Roles, Responsibilities and functions of the Governing Council

There are totally 12 members in the Governing Council including Chairman and member secretary. It is the responsibility of the each and every member of the Council to attend the meeting regularly, actively participate by contributing with valuable advises to the Institute in imparting quality education.

The Council has the power of suggestions, advises on the improvement of the overall governance of academic, administrative activities of the Institute/ organization. It also approves the proposals for statutory authorities working on controlling, monitoring of the functions of the professional Institutions, such as expansion of courses/ programs, closure of courses/ program, recognition, ratification of appointment /relieving, budget, allocation of infrastructures, funds, authorizing the persons to sign the proposals.

- The Member secretary of the GC fixes up the meeting every semester to understand the knowhow of the academic and administrative activities of the Institute.
- The meeting date will be fixed upon obtaining their availability.
- The agenda is circulated in advance to all the members.
- Each and every item of the agenda will be discussed in the meeting, upon detailed discussion; unanimous appropriate decision will be taken where ever applicable.
- Minutes of the meeting will be circulated to all the members of the council, HODs and the authorities concerned.
- The action to be initiated as per the suggestions will be circulated to the concerned such as HODs, Management, R & D cell, Placement &Training for implementation.
- The report on the action taken will be placed before the council in the subsequent meetings.

The council shall meet twice in a year, beginning/end of academic semester viz. July/August or Jan / Feb of every calendar year. 50 percent of the quorum is considered for meeting.

COLLEGE ACADEMIC COUNCIL:

The academic activity of the institute is supervised by the Academic Council for which, Principal is the Chairman and all heads of the departments are members as depicted in table 10.1b. The Academic council meets once in a month to discuss the academic performance and to take decisions on critical academic matters. The Minutes of this meeting is circulated to the management, entire HODs' and in turn disseminated to all the faculty members. The salient points of the Academic council meeting are made as points for discussion in Governing Council.

Table: 10.1b: Academic Council Composition:

Sl. No.	Name	Designation	Role
1	Dr M R Prakash	Principal	Chairman
2	Dr. SK Maharana	HOD AE	Member
4	Dr. Chandrappa	HOD AU	Member
5	Dr. Gopinath SM	HOD BT	Member
7	Dr. Gunashekhar	HOD, Civil	Member
8	Dr. Prashant C M	HOD CSE	Member
9	Dr. Rajeshwari	HOD ECE	Member
10	Dr. Prakash R	HOD EEE	Member
11	Dr. Surekha B	HOD ISE	Member
12	Dr. Prakash Dabeer	HOD ME	Member
13	Dr. Ramesh Hegde	HOD MCA	Member
14	Dr. M MBagali	HOD MBA	Member
15	Dr. Devarajaiah R M	HOD MT	Member
16	Dr. Rajanna K R	HOD Maths	Member
17	Dr. Mahesh SS	HOD PHY	Member
18	Prof . Sathish K	HOD Chem	Member

The Institute has several committees and decentralized its activities for effective functioning. The committees are Internal Quality Assurance Cell (IQAC), Anti Ragging, Grievance

Redressal Cell, Anti sexual Harassment, Library, Sports & Cultural, Training & Placement, College Newsletters, Hostel Committee, Examination Cell, Student welfare, Faculty welfare, Research & Development.

INTERNAL QUALITY ASSURANCE CELL (IQAC)

IQAC evolved with the mechanisms and procedures for ensuring timely, efficient and progressive performance of academic, administrative and financial tasks. Also relevance and quality of academic (TLP - Optimization and integration of modern methods of teaching and learning, TLP - evaluation procedures). Equitable access to and affordability of academic programmes for various sections of society.Ensuring the adequacy, maintenance and functioning of the support structure and services. Research & Development: Research sharing and networking with other institutions in India and abroad.

COMPOSITION:

IQAC of this Institute comprises of the members as per the guidelines of UGC. The composition is as shown in **Table 10.1c.**

Table 10.1c: IQAC composition

Sl. No.	Name	Designation	Role
1.	Dr. Prakash M R	Principal	Chairperson
2.	Dr. Kiran Reddy	Member	Management representative
3.	Dr. Gopinath S M	HOD, BT	Director / Co ordinator
4.	Mr. Shreyas Karnick	Asst. Professor	Member Secretary
5.	Dr. Gaddagimath	Dean, Learning Resources	Member
6.	Dr. Ganesh Rao	Dean, Circuit Branches	Member
7.	Dr. Prakash R	HOD, EEE	Member
8.	Dr. GururajUrs	Professor, MBA	Member
9.	Dr. Ramesh Hegde	HOD, MCA	Member
10.	Dr. Renuka Devi	Administrative Officer	Member
11.	Dr. B Manjunath	Associate Professor	Member

12.	Mr. Gangadhar	Gram Panchayath Member, Alur	Member from Local Society
13.	Mr. K H Chandrashekar	Kennametal	Member from Industry
14.	Dr. Gurunath Rao Vaidya	Parent	Member from Stakeholders
15.	Mr. AbhinavTiwari	6th Sem. ISE	Student Member
16.	Mr. Naveen	Alumni, CSE	Alumni Member

Roles, responsibilities and functions:

1. Development and application of quality parameters for various academic and administrative activities of the institution.
2. Facilitating the creation of a learner-centric environment conducive to quality education and faculty development program to adopt the required knowledge and technology for participatory teaching and learning process.
3. Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes.
4. Dissemination of information on various quality parameters of higher education.
5. Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.
6. Development and maintenance of institutional database through MIS for the purpose of maintaining/enhancing the institutional quality.
7. Preparation of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC.
8. IQAC is setting procedures for academic improvements for departments and initiate quality for whole institution.
9. The Cell audits the academic records (course file, personal file, performance file and Mentor file). Suggests any changes to be incorporated time to time and continuously monitor its progress.

10. IQAC meets once on every mid of semester to take stock of the academic improvement and thus TLP audit.

Anti-Ragging Committee

The rules and regulations followed against ragging is as prescribed by the UGC and the complete information is available on: http://www.antiragging.in/Site/Infopack.aspx.

Adhering to the guidelines this Institute has the Antiragging committee constituted for core committee and Squad committee. The core committee comprises the member representative of Heads of the department, one student member form every branch, Local Police inspector , Hostel warden, Dean students affairs, headed by Principal as a Chairman. The core committee composition is shown in the Table 10.1d.

Table 10.1d: Composition of Antiragging core committee

Composition	Role
Principal	Chairman
Management representative	Member
HODs – 16	Members
Students representative	14 members
Police inspector	Member
General administrator	Member
Dean Student Affairs	Member
Medical Officer	Member
Hostel Warden / Chief warden	Members

Antiragging squad committee constituted with the composition of Faculty representative as members from every department to support the main core committee.

Monitoring Mechanism:

1. Constitution of Anti ragging committee headed by Head of Institution and consisting of representatives of civil and public administrations, NGOs, local media, faculty, parents, students and non-teaching staff.

2. Anti-ragging squads to maintain vigil, oversight and patrolling functions. The Squads have to make surprise visits on hostels, and other places vulnerable for ragging activities. Reports on the visits have to be made by the members of the squad.
3. Constitution of mentoring cell to promote the objectives of anti-ragging and should comprise of student volunteers.

The committees for the welfare of the women fraternity

Women cell, Anti sexual harassment committee, internal complaint committee are working with the main aim of Gender equality, Prevention of sexual harassment and to protect women safely.

Women's Cell

Acharya Institute of Technology recognizes the need to inculcate a culture of respect for the female gender and the creation of a climate which is free of sexual harassment fear and an urgent need to address the task of the prevention and support to those who need assistance.

Aim of the cell is to provide safe working and learning campus life for faculty and students free from gender discrimination - gender equality and free from sexual harassment - women safety. Cultivate an atmosphere for men and women to work together towards the growth and prosperity of the institution.

Information to all students/ members of staff, teaching and non- teaching about the formation, objectives and existence of women's cell will be passed on by an e-mail. This is to bring about awareness about existence of a cell. Any member in the committee can be contacted for help.

When an issue is reported, the members of the committee will understand the matter and take a written complaint. Forward the same to the constituted Anti sexual harassment Committee for further process.

The composition is the committee will be re constituted once in every Two years.

Anti-Sexual Harassment Cell

This committee is constituted following the guidelines of UGC / AICTE / VTU. The composition of the committee comprising the members from teaching / non teaching representatives, Member form NGO, students representatives under the chairmanship of the Principal. The composition of Anti sexual Harassment committee is as shown in the table 10.1e.

Table 10.1e: Composition of Anti sexual harassment

Sl. No.	Name	Designation	Role
1.	Dr. Prakash M R	Principal	Chairperson
2.	Dr. Uma Warrier	NGO	Member
3.	Ms. Nagapushpa	Asst. Prof. ECE	Member Secretary
4.	Ms. Varalakshmi B D	Asst. Prof., CSE	Presiding Officer
5.	Mr. Hanumanthe Gowda	Asst. Prof., Basic Humanities	Legal Advisor
6.	Dr. Gopinath	HOD, BT	Member
7.	Dr. Renuka Devi	AO	Member
8.	Ms. AyushiSharan G	Student, ECE	Member
9.	Ms. Nikita Murgud	Student, MCA	Member
10.	Mr. Shreyas Karnick	Member Secretary, IQAC	Member

Anti-Sexual Harassment Cell aims to address, Gender discrimination, Sexual harassment, and Promote gender amity, gender justice and full-fledged support to person in trouble.

The committee will aim to redress the cases in any capacity by empathizing with them and bringing in professional guidance and support to overcome the situation. The committee would meet based on issues and the situation arises and would record the minutes. Formal enquiry will be set up by the committee with the person who complained and the one on whom the complaint is launched. A fair enquiry will be conducted and chairman will decide on the plan of action. If there is prima facie case lawyers/ counselors advice will be taken. Empathy and secrecy will be maintained to get the victim into mainstream activities and life.

The composition is the committee will be re constituted once in every Two years. Internal Compliant committee (ICC) within the anti-sexual harassment committee works within the aim of Anti-sexual harassment committee to redress and resolve the issues. The composition of the ICC is as follows in the table 10.1f

Table 10.1f: Internal Compliant committee

Sl. No.	Name	Designation	Role in the Committee
01	Dr. IndraniPramodKelkar	Professor Dept of Mathematics	Chairperson
02	Dr. Prakash M.R.	Principal	Member
03	Ms. Nagapushpa	Asst. Prof. ECE	Member Secretary
04	Ms. Varalakshmi B D	Asst. Prof., CSE	Member
05	Mrs. Renuka Devi	Administrative Officer, AIT	Member

Equal opportunity cell

The Institute has constituted the equal opportunity cell with the objective of creating the awareness and optimal benefits extended by the Govt. and other bodies for the students from the community in destitute in the society.

To check the facilities like scholarships distribution well in time which are sanctioned by the Govt., to guide the career opportunities, to conduct session for enhancing the skill and competency, to facilitate for training and placement in coordination with college placement and training cell, to make arrangement in sending information required by University and Govt. authorities from time to time.

The members of the cell meet in every semester and may meet when and required. The term of the cell is two years and shall continue until further reconstitution. The composition of the cell is shown in the Table 10.1g

Table10.1g: Equal opportunity cell

Sl.No.	Name	Designation	Role in the Committee
1.	Dr. Prakash M.R.	Principal	Chairman
2.	Mrs. Varalakshmi B.D.	Associate Professor, Dept. of CSE	Member – Teaching female
3.	Mrs. Jayalakshmi	Associate Professor, ECE	Member - Teaching female
4.	Mr. Prakash Metre	Assistant Professor, ISE	Member – Teaching male
5.	Mr. Venugopal	Asst. Professor, AE	Member – Teaching male
6.	Dr. Ismail Shareef	Associate Professor , Dept. of BT	Member– Teaching male
7.	Mr. Satish K	Asst Professor, Dept. of Chemistry	Member– Teaching male
8.	Mr. Takappa	Librarian	Member– Library male
9.	Mr. Rajkumar	Instructor, Dept of Chemistry	Member – Technical male
10.	Mrs. Chaitra B	Jr. Asst. Admin	Member – Non Teaching female

Library Committee

Library committee is set up by the Head of the institution to look after overall development of the library**.** It comprise of Head of the institution as its chairman, one faculty member and a student nominated by HOD of each department along with chief librarian and one accounts officer as its members. The library committee meets twice in a semester to access the requirements of the library. The composition is shown as in the table 10.1h.

Table 10.1h: Composition of Library committee

Chairman	Head of the Institution
Members from the Teaching Faculty	Head of the Departments or their nominees
Members from Students	One student from each of the departments
Member from Accounts	Accounts Officer
Member-Secretary	Chief Librarian

Roles, responsibilities and functions

The library committee formulates library policies and objectives, library development programmes and activities. It also compiles and review the rules and regulations relating to the best use of library resources and act as a Liaison between the library and the community.

At the beginning of every academic year, it collects the library budget from all the departments, review the same and compile and produce the report and submit to the management for procurement of books. Upon receiving, it ensures that the departmental books are properly bar-coded for end users.

Committee lay down the policy for weeding of documents and Writing-off of Books, approve the recommendations of the librarian on the staff requirements and appointments, Oversee budget estimates and approve apportionment of funds for different items of expenditure and library accounts and expenditure. Term of the Committee is for 2 years. After its tenure, fresh committee is formed.

Hostel Committee

Hostel committee works for the discipline and welfare of the residents of the Hostels of Institute. The hostel committee comprises of the Warden, Chief Warden, faculty representatives from male and female group under the chairmanship of the Principal. Composition of the hostel committee is shown in table 10.1i.

Table 10.1i: Hostel Committee

Sl. No.	Name	Designation	Role
1.	Dr. Prakash M R	Principal	Chairperson
2.	Mr. R Shadakshari	Asst. Prof, Mechanical and Chief Warden	Member Secretary
3.	Dr. A R K Swamy	Professor, Mechanical and Warden	Member
4.	Mr. Vijay Hashia	Hostel Manager	Member
5.	Mrs. Ramashree	Manager Ops	Member
5.	Mrs.Asha Pulli	Facility Manager	Member
6.	Mr. Ramakrishna Gowda	General Admin	Member
7.	Mr. Dinesh	Head, Security	Member
8	Students representatives - 10 No.	Girl students / Boy students	Members

The committee functions within the well-defined policies where every role and responsibilities are within the frame work.

The Hostel Committee serves with the aim to provide a conducive and homely environment for the students to stay, study, imbibe the art of living among their own peers in a harmonious manner and cherishing memories of their association with the Institute.

It observes around the clock to ensure the quality food, high discipline, including regional biasing, anti ragging, anti sexual harassment, safety and hygiene environment in and around the hostel. The committee sets do's and don'ts for all the stake holders. The committee members are on regular interaction every day formally meets every month to monitor the smooth functioning of the hostel. The committee also has the feedback mechanism to maintain or improve the quality service.

STUDENT AFFAIRS /WELFARE COMMITTEE.

The committee is headed by Dean Students Affairs (DSA) along Assistant deans, one faculty member from each department is nominated by respective Head of the Departments acts as its mentor coordinator. They meet once in a month to discuss academic progress of the students and any other issues related to students. Its Composition is as shown in the table 10.1j. The term of the committee is two years and shall continue until further reconstitution.

Table 10.1j: Students welfare committee

Sl. No.	Faculty name	Department	Designation
1	Dr. Indrani Pramod Khelkar	Mathematics	Dean Students welfares
2	Dr. Nagaveni	Computer Science and Engineering	Asst. students welfare
3	Mr. Lakshmikanth Reddy	Electrical	Asst. students welfare
4	Mr. Venugopal	Aeronautical	Member
5	Mr. Prashanth K P	Automobile	Member
6	Mrs. Ashalatha	Biotechnology	Member
7	Mr. Satish Kumar M	Civil	Member
8	Mr. Arjun Hakatoor	CTM	Member

9	Mrs. Nagapushpa	Electronics	Member
10	Mr Arun H K	Information Science	Member
11	Dr. Kusumadevi	Electrical	Member
12	Mrs. Shahsikala A	Mechanical/ MS	Member
13	Mr. Kiran Kumar K	Mechatronics	Member
14	Mrs. Bhagyashree G	MBA	Member
15	Mr. Narasimha Murthy G K	MCA	Member
16	Mr. Manjunatha A	Mining	Member
17	Mr. Ashok Kumar Satapathy	Physics	Member
18	Dr. Brungesh K V	Chemistry	Member

Roles, responsibilities and functions of student's affair

Students academic issues, co-curricular activities are taken care by the committee, also looks into disciplinary action, the committee's function include allocation of mentors to newly admitted students of all branches at the beginning of academic year, ensure attendance of the students in the classes by regularly interacting with the mentors, ensure discipline among students in and out side Campus. The committee supports the departmental forum coordinators for co-curricular activities also Coordinate with anti-ragging committee. Academic performance, conduct of the students with in the campus are monitored and informed to the parents /guardians on regular basis.

Coordinate to resolve the issues related to students in hostel if any, in consultation with Hostel committee.

Recommendation for issuing Bonafide/ Study/ Conduct certificate to students, it also supports in organizing programs to motivate students for better academic performance, personality development and Social Connect etc. The committee meets regularly to monitor their responsibilities. The term of the cell is two years and shall continue until further reconstitution.

Examination Committee

This committee is headed by Chief Superintendent of the college. Two senior faculty members are appointed as deputy chief superintendents and an administrative officer along with two support staff acts as its members. Its composition is as shown in the table 10.1k

Table 10.1k: Examination Committee

Sl. No.	NAME	DESIGNATION
1	Dr. Prakash M R	PRINCIPAL Chief Superintendent
2	Dr. Mahesh S. S.	Professor & HOD, Deputy Chief Superintendent
3	Dr. Manjunatha B	Assistant Professor&Deputy Chief Superintendent
4	Dr. Renuka Devi	Administrative Officer
5	Mr. Venkatesh H	Office Superintendent
6	Mr. Kumarswamy S	Supporting Staff

Roles, Responsibilities and functions

The examination committee prepares the guidelines for smooth conduction of internal and external examination. The committee liaisons with the University for conduct of examinations and all related matters since the application filing to result announcement.

It also conducts orientation program for newly recruited staff members to bring awareness and consequences about the conduction of examination process.

Monitor the question paper indent, stationery indents for Labs & Theory examinations, arrangement for collection of Exam (Theory/Labs) stationery from VTU.

Monitor the uploading exam application to the VTU web portal. Resolve any discrepancies found in admission ticket (Subject, subject codes) with concerned VTU authorities. Obtain approval for permitting scriber for physically challenged students with proper documents from VTU.Monitor room allotment day wise and appointment of Room superintendent for conduct

of Theory Examination (Invigilators duties list well in advance).Maintaining confidentiality of VTU exam online question paper printing (QPDS) for both theory and lab.

Monitor the issue of question papers and charts, tables and issuing duplicate admission tickets to the students during examination during examination. Verification of A forms and B- forms for uploading absentee's statement to the VTU portal. Verify the received answer booklets with respect to A-forms & B-forms from room invigilators.

The committee ensures that the answer scripts bundles are handed over to the Regional office, Bangalore every day after completion of exams.

The exam committee analyzesthe promoted and detained student numbers and give the information to departments for further needful during that academic years. Plans for uploading IA marks to VTU online web portal along with the help of designated faculty from departments. Get the approval of batch list for practical exam UG/PG from VTU/BOE and conduction of practical examinations.

The Committee also coordinates for VTU digital valuation work if allocated at our center and monitor the valuation process till the completion. Resolve any issues related to valuation with concerned VTU coordinators. Approve of disbursement of examination and valuation remuneration semester wise.

The committee ensures that documents related to VTU examinations are maintained. To mention few like statistical data of number of students taken exams, valuation details, Malpractice cases etc.

They meet regularly two times in a semester and when ever situation arises. The term of the committee is two years and shall continue until further reconstitution.

R& D cell

Acharya Institute of Technology has established R & D cell in 2015 withwell defined research policy that aims to advance the mission of the Institute, which adheres to:

- The promotion of research and knowledge development guided by integrity, quality and rigor
- Cultivates and promotes an institutional ethos, intellectual culture and educational experience conducive to critical discourse, intellectual curiosity, tolerance and a diversity of views.

The composition of R & D cell comprises as shown in the table 10.1l

Table 10.1l: Composition of R & D

Sl. No.	Name	Designation	Committee Role
1.	Dr. Prakash M.R.	Principal	Chairman
2.	Dr. Rajeswari	Professor & Head Dept. of ECE	Dean R & D / Member Secretary
3.	Dr. SrinivasMutukuri	Research Directorate	Member
4.	Dr. Maneesh Paul	Professor, Dept. of B T	Member
5.	Department Research Co ordinator Representing each Dept. – 16 No.	Professor/ Associate Professor/ Asst. Professors	Members

The R&D Cell provides research services for staff of the Institution, this support includes but is not limited to:

To encourage and support quality and innovative research amongst the faculty members, researchers, research associates and students of all fields and disciplines.

To facilitate the dissemination of research findings through publication in indexed journals, books and book chapters for the subject specialist and peer-reviewed conference proceedings

Assisting Institute Research Centres by coordinating the activities and monitoring external Research developments. Monitoring and reporting on externally funded research grants.

Providing professional development opportunities for staff to enhance their research performance.

To facilitate that adequate resource are provided for research and innovation within the institution or connect with the outer world for the same. The conducting of research audits at regular and strategic intervals.

The cell meets twice in a semester, wherein the research co-ordinators of the cell communicate with the concerned faculty, researchers and students regarding the strategic implementation and monitoring of the research policy with the aim to improve the research coefficient of the institution.

INNOVATION CELL

Acharya Institute of Technology has established Institute Innovation Council (IIC) as per the norms of the innovation cell, Ministry of HRD, Govt. of India. The cell conducts activities in line with the MHRD initiated activities, grass root innovation sessions for the students and faculty members.

The students are encourages to come up with their innovative ideas in all disciplines, which are curated by the Acharya Technology Incubator on campus for further product/ service development. The cell also encourages the students and faculty to participate in the national and international level competitions for innovations.

Sports & Cultural Committee

This committee is constituted with principal as its chairman, physical education director as its member secretary and seven teaching faculty as its members.

They meet once in the beginning of every semester and prepare a plan of action along with the calendar of events of VTU and our institution. Composition of sports and cultural committee is shown in the Table 10.1m

Table 10.1m: Sports and Cultural committee

Sl. No.	Name	Designation	Role
1.	Dr. Prakash M R	Principal	Chairperson
2.	Mr. Gangadhar	Director, Physical Education	Member Secretary
3.	Mr. Tejas K	Asst. Prof., Civil	Member
4.	Ms. Anzum	Asst. Prof., EEE	Member
5.	Mr. Prasad	Asst. Prof., Mechanical	Member
6.	Ms. Keerthi	Asst. Prof., MBA	Member
7.	Mr. Shashikanth Reddy	Asst. Prof., MCA	Member
8.	Mr. Praveen B B	Asst. Prof., Mechanical	Member
9.	Mrs. Latha Rani	Asst. Prof., CSE	Member

Roles, responsibilities and functions

The committee frames the policies and revises the policies regularly. The Committee co ordinates for organizing the sports events at intra and inter level comprises regional, state level, national and international level for faculty and the students regularly. To ensure that the information is goes to all the stake holders well in advance. The cell identifies new talents by selection trails/auditions that will be conducted at the start of academic year for all sports.

The committee co-ordinates for selection process done by professional experts from respective sports. Similarly, auditions are taken to select candidates for cultural events.

Teams are finalized based on the student's performance in selections. The respective teams are headed by the captains who are selected based their performance and ability to lead. The coaches are appointed to train the students.

Cultural teams are finalized based on the auditions held. All teams are headed by the student coordinators. The respective workshops are to be conducted by field experts. The finalizing cultural team will help them practice on a regular basis.

Its main responsibility is to enhance and feed additive talents hidden in students in developing their overall personality.

Encourage students in development of their physical and mental health through active participation in extracurricular activities, enhance their skills and to accentuate their understanding and learning graph. Reach out to the other institutes and university through various activities and widen their spectrum. The committee meets regularly twice in every semester. The term of the committee is two years and shall continue until further reconstitution.

Sports facilities at Acharya Institute of Technology

Outdoor: Football, Cricket, Basket ball, Volley ball, Kabaddi, Softball, Archery, Ball Badminton, Handball, Tennis, Kho-Kho and Athletics.

Indoor: Table Tennis, Chess and Carom, Multi Gym, Power Lifting, Weight Lifting.

Placement and Training Cell

The Cell is having well defined policy and works within the frame work of the same with the main objectives of training of:

- To have a positive impact on educational outcomes by advancing training and job placement for students, establishing a model for Placement Oriented Training for the students.
- Develop the physical and mental potential and the problem-solving capacity of individuals
- To develop and enrich students; inquisitive ability and raise their creativity and interest.
- To make education, training and research appropriately integrated with development by focusing on research.

The cell comprises of the staff as members from department of training and placement, faculty representatives from each department of the institute as coordinators headed by the Director Training and placement. The composition of the cell is as follows in the Table 10.1n

Table 10.1nThe composition of the Placement & Training cell

Sl.No.	Name	Designation
1.	Mr. C.B.M Bhooshan	Director Training and Placements
2.	Prof. Iqbal Ahmed	Dy Director Training
3.	Dr. Ismail Shareef	Training and Placement Officer
4.	Mr. Vijay.T.Nayak.	Executive Placements
5.	Ms. Rashmi.N.Mahesh	Sr. Executive Placements
6.	Mr. Irshad Ahmed S	Assistant Director Placements
7.	Mr. Basavaraju M	Assistant for Training
8.	Ms.Sirisha Reddy	Asst. Director/ Asst. Professor, Dept. of Civil Engg.
9.	Faculty representatives -from every department	Asst Professors as coordinators

The cell prepares the students for placement, is responsible for inviting tenders and selection of training team, preparation of time table for training in coordinating with the HODs, arrangement for training, pre and post evaluation of the training.

The cell has students modules, client modules, placement staff co-ordinator module for organizing and coordinating in recruitment and selection process where internal and external students will participate in the recruitment process, pool events, internship events and off campus events. Placement department also maintain database of clients, and selected candidates, their offer letters/ appointment letters.

The cell meets every month formally otherwise meets regularly whenever the clients visit the institution.

10.1.3 Decentralization in working and grievance redressal mechanism (10)

The management has delegated its authority to the Principal to administer the institute sound principles. The principal in-turn has delegated the powers to Professors under Acharya Institute of Technology as follows.

Table 10.1o: Decentralization in working

Sl. No.	Faculty name	Department and Designation	Roles and Responsibility
1.	Dr. Devarajaiah R M	Mechatronics, Professor and HOD	Dean Academics- Academic planning and implementation
2.	Dr. Rajeshwari	Electronics and Communication Engineering, Professor and HOD	Dean R & D - Foster R & D culture in faculty and students. Proposals submissions and consultancy activity.
3.	Dr. Prakash R	Electrical and Electronics Professor and HOD	Convener-Anti Ragging Committee. Prevention of ragging menace in the campus. Setting up anti-ragging squad and monitoring.
4.	Dr. Gopinath S M	Biotechnology Professor and HOD	IQAC Coordinator –Quality monitoring in academic activities. NSS coordinator- Creating social responsibility among students and faculty.
5.	Dr. Gaddagimath	Library Dean Learning Resource	Develop Digital resources and create awareness about the facilities in the library for students and faculty members
6.	Dr. Balasubramanya	Department of Civil Professor	Dean Faculty welfare & development- To facilitate and create sound working environment for faculty. To support Faculty development activities to all the departments.
7.	Dr. Indrani Pramod Khelkar	Department of Mathematics Professor	Dean Student Affairs Facilitate overall development of the student community.
8.	Dr. Ramesh Hegde	Department of MCA Professor and Head	News letter: Collection of news from all the departments and bring out " Semacharya" Acharya news letter once in six months.
9.	Mr. Gangadhar	Department of Physical Education Sports and Cultural Incharge	Maintain and procure sports items required. Organize sports and cultural activity along with members of the committee.
10.	Mr. Iqbal Ahemed	Deputy Director Training	Planning Soft skill and Domain Training programmes. Facilitate Industry-Institute interaction.
11.	Mr Marigowda	Deputy director Collaborations Alumni coordinator	Establish contacts with foreign universities and initiate student Exchange programmes. Uphold alumni network throughout the world.
12.	Dr. Ismail Shareef	Placement Officer	Establish industry contact and ensure placements.
13.	Dr. Mahesh SS	Professor and Head, Physics Deputy Chief Superintendent, Examinations	Ensure smooth conduction of internal tests, VTU examinations and valuation centre works.

Grievance Redressal Committee

The grievance redressal committee is formed and functions as per the regulations given by the UGC (https://www.ugc.ac.in/pdfnews/1406982_Public-Notice-on-Grievance-redressal.pdf). It is headed by the principal. Senior faculty members and hostel wardens are its members. They meet once in a semester and address the grievances and take measures to overcome such issues in future. Composition of grievance cell is as shown in table 10.1p

Table 10.1p: Grievance Redressal committee

Sl. No.	Name	Designation	Role
1	Dr Prakash M R	Principal, AIT	Chairman
2	Dr. R. Prakash	Prof & Head, EEE	Member
3	Dr. Devarajaiah	Prof & Head, MT Dean- Academic	Member
4	Dr. Rajeswari	Prof & Head, ECE,	Member
5	Dr. Indrani Pramod Khelkar	Prof & Dean Student Affairs	Member
6	Prof R. Shadakshari	Asst Prof. Mech& Chief Warden, AIT	Member
7	Dr. Ramesh Hegde	HOD of MCA, AIT	Convener
8	Sri Ramakrishne Gowda	General Administrations, Acharya institutes	Member
9	Dr ARK Swamy	Prof.Mech& Hostel Warden	Member
10	Mr. Vijay Hasya	Hostel Manager, Acharya Institutes	Member

Roles, responsibilities and functions

The committee has to publicize the document consisting of what all can be considered as grievance to all stake holders. Receive the grievance upon existence, validate by consulting parties involved in it and resolve the case within two weeks. Also record minutes of such instances and file it for future references. The grievance mechanisms are also made online as per UGC guidelines from this academic year so as to make it transparent and hassle free exercise.

Service rules, procedures, recruitment and promotional policies: HR policies for AIT is in

place. The following are the contents of the same:

CONTENTS

- Human Resources – Acharya Distinction
- Institutional Statements

1) JMJ EDUCATION SOCIETY AND INSTITUTIONS
   - Constitution of the J M J Education Society
   - List of Acharya Institutes run by J.M.J. Education Society
2) MANAGEMENT, GOVERNANCE AND ADMINSITRATION
3) POLICY FRAMEWORK OF HUMAN RESOURCE CENTRE
   - Policy framework of the Human Resources Centre
   - Categories of Human Resources
4) RECRUITMENT POLICY
   - Recruitment to teaching faculty positions
   - Composition of selection committee to recruit faculty members
   - The teaching faculty positions and designations at Acharya institutes
   - Salary Scales for Faculty under the umbrella of AICTE
   - Salary Scales of Faculty under the Umbrella of State Government
   - Recruitment to executive and managerial positions
   - Mode of selection to managerial and administrative positions
   - Recruitment to support staff – technical
   - Recruitment to support staff – administrative [includes accounts]
   - Saving clause
5) APPOINTMENT / INVITATIONS FOR GUEST FACULTY / VISITING PROFESSORS / ADJUNCT FACULTY

6) ROLE AND RESPONSIBILITIES AND SERVICE CONDITIONS FOR FACULTY EMPLOYEES OF JMJ EDUCATION SOCIETY

- Service conditions
- Probation
- Process of confirmation of service – purpose
- Promotion policy
- Retirement – Resignation - Termination
- Retirement
- Resignation
- Termination of services of an employee

7) CODE OF CONDUCT AND ETHICS

- Misconduct
- Disciplinary proceedings (As detailed below)
- Disciplinary punishments and appeals

8) WORKING SCHEDULES

9) LEAVE RULES

- Casual leave
- Restricted holiday (RH)
- Permissions
- Vacation leave
- Marriage leave
- Earned leave [EL]
- Maternity leave
- Paternity leave

- Research Leaves
- General rules

10) CAREER ADVANCEMENT

11) FACULTY DEVELOPMENT

- Higher studies
- Policy for doctoral studies
- Seminars / Workshops / Conferences
- Promotion of research
- Staff development and training: support staff (Administrative)
- Staff development and training: support staff (Technical)

12) WELFARE SCHEMES FOR FACULTY & SUPPORTING STAFF

- Grievances Redressal Cell
- Women's cell
- Objectives
- Activities
- Advisory committee

13) PERFORMANCE BASED APPRAISAL SYSTEM FOR EMPLOYEES

14) ZERO TOLERANCE POLICY

15) EQUAL OPPORTUNITY CELL AND PROVISIONS THEREOF

16) WARDENS / OTHER WORK TO BE PERFORMED

17) NON-DISCLOSURE AGREEMENT

10.1.4 Delegation of financial powers (10)

Financial powers are delegated to the Principal and the Head of the department. Annual budget is prepared by the Head of the department in consultation with departmental faculty members.

This is further scrutinized by principal and recommends the budget for approval to the Management. The financial account is periodically reviewed by the Principal and Accounts Department. The Principal of the Institution has been granted the power to utilize an imprest amount of Rs. Fifteen Thousand only (Rs 15,000) on suitable institutional expenses, at any given point of time. The HoD of the Department has been granted the power to utilize an imprest amount of Rs. Five Thousand only (Rs 5,000) on suitable departmental expenses, at any given point of time.

At any point, Rupees Fifteen Thousand and Rupees Five Thousand (provided to Principal and HoD) will be maintained and is reimbursed as a top-up based on usage. Subsequently Principal is at Liberty to procure the required equipment during the Financial Year as against the proposed budget, by presenting the same in the Purchase Committee. Further, Special powers have been delegated to the Principal, if the amount exceeds the proposed budget to the extent of 10 to 20% as against the proposed budget.

10.1.5 Transparency and availability of correct/unambiguous in formation in public domain (5)

The college website and the Enterprise Resource Planning (ERP) software ensures that all information's pertaining to students, staff in the ERP to ensure that all stake holders are adequately informed about the policies and procedures along with the developments taking place that could affect them. All the information pertaining to the admissions, faculty and supporting staff details, student attendance, internal marks, infrastructural facilities, details of programs, information related to ongoing student training programs, faculty development programs, symposiums etc., are made available in the college internet-based ERP. All Minutes of Meetings like Academic Council and other information are mailed to all HODs for further information to all the faculty members.

10.2 Budget allocation, Utilization and public accounting at Institute level (30)

The yearly budget is prepared according to the needs & requirements of the departments taking into consideration of annual intake of students, laboratory &infrastructure developments, Students, faculty& staff requirements and promotions and latest technologies etc. Various departments submit the annual budget to principal. On receipt of such proposals, principal, in consultation with departmental HODs, prepares a consolidated proposal. After deliberations formal budget made altered in departments and forwarded to Principal for preparing final budget at college level and submits it to the Governing Body for approval and sanction.

The Management is approving almost 100% which was proposed by the institute. The budget allocation and utilization for the last three years is adequate.

All the expenditure needs prior approval from the competent authority. Funds would be spent only from the approved budget. If funds are required for expenses not mentioned in the proposal, management's approval is a must. Management ensures the adequacy of the funds from various sources like, fee accrual, donation and bank loans.

Table 10.2a: Budget Expenditure per student - Recurring

Acharya Institute of Technology									
Financial Year	Total Income in lakhs					Actual expenditure in lakhs			
	Fee	Govt.	Grants	Other Sources (Interest on Fixed Deposits & Others)	Total Income (Fees +Interest)	Recurring including Salaries	Total Expenses	Student Strength	Expenditure per students -Recurring
2018-19 - 01/04/18 to 04/02/2019	6054.91		0.28	7.49	6065	4514.43	5241.4	4658	0.9691
2017-18	6985.08	--	0.2	18.95	7004.04	5112.92	9796.82	4528	1.12918
2016-17	6506.93	--	9.31	2.78	6509.71	4205.4	6341.45	5033	0.83557
2015-16	5909.44	--	1.17		5909.44	4524.89	6286.07	5036	0.89851

Table 10.2b: Budget Expenditure per student -Non-Recurring

Expenditure and cost per student in lakhs								
	Income from Fee	Govt.	Grants	Other Sources (Interest on Fixed Deposits & Others)	Total Income (Fees +Interest)	Non-recurring	Student Strength	Expenditure per students -Non Recurring
2018-19 - 01/04/18 to 04/02/2019	6054.91		2.867	7.490	6065.27	726.97	4658	0.15607
2017-18	6985.08	0	0.020	18.95	7004.03	4683.89	4528	0.10300
2016-17	6506.93	0	9.311	2.786	6509.71	2136.05	5033	0.4244
2015-16	5909.44	0	0.354	0	5909.44	1761.17	5036	0.3497

Allocation of budget for different categories

Table 10.2cAllocation of budget in lakhs								
Items	Budgeted in CFY	Actual expenses in 01/04/18 to 04/02/19*	Budgeted in 2017-18	Actual expenses in 2017-18	Budgeted in 2016-17	Actual expenses in 2016-17	Budgeted in 2015-16	Actual expenses in 2015-16
CAPEX								
Infrastructure Built-Up	150	418.27	3800	3763.35	900	856.54	170	1619.86
Library	3.5	1.32	3.5	3.55	1.5	1.37	28	28.63
Laboratory equipment	25	11.39	65	67.68	90	88.36	1.45	1.44
Others:								
Electrical Fitting &Equipments	350	184.18	300	298.05	465	464.42	55	54.34
Furniture & Fixtures	55	50.8	50	49.60	16	15.89	3.5	3.48
Computer & Software	70	58.85	470	469.69	480	481.21	45	43.20
Vehicles				18.50	220	220.65	10	9.62
Office Equipment	5	2.136	50	50.49	7.5	7.62	0.6	0.60
Total CAPEX	658.5	726.97	4738.5	4683.90	2180	2136.05	313.55	1761.17
OPEX								
Laboratory Consumables	5	1.32	4	3.76	30	30.24	25	23.14
Teaching and non-teaching staff salary	2800	2064.87	2520	2519.24	2350	2351.18	2480	2460.97
Maintenance and spares	350	285.72	335	334.47	280	278.42	505	507.40
R&D	5	2.867	0.2	0.20	10	9.31	0.4	0.35
Training and Travel	70	48.95	65	65.03	48	47.19	62	61.29
Miscellaneous expenses*								
Advertisement	120	85.11	150	153.63	70	71.09	64	63.26
Bank Charges	1	0.3038	6	5.86	0.9	0.87	1	0.97
Books & Periodicals	0.3	0.25	0.18	0.18	0.2	0.19	0.2	0.25
Cleaning & Maintenance	30	14.59	36	36.01	20	19.04	17	17.26
Donation	0.5	0	0.2	0.20	0.15	0.11	1.75	1.75
Electricity & Water	100	49.74	120	119.92	110	110.62	90	90.74
Membership & Subscription	12	12.25	10	10.81	5	5.19	9	8.71
Miscellaneous Expenses	5	3.236	5	4.38	5	5.30	5	4.98
Loss on Sale of Car				5.19				
Postage & Telephone	60	48.25	58	58.21	32	32.71	28	28.90
Printing & Stationery	60	42.61	90	90.09	100	98.28	86	87.12
Professional Charges	115	84.74	100	102.97	125	125.16	100	98.61

Rate & Taxes	30	28.13	28	28.23	34	34.00	28	28.13
Registration & Renewals	220	177.93	210	208.45	120	117.56	105	104.52
Sponsorship & Seminar Expenses	20	11.51	20	21.63	8	7.90	12	12.53
Staff Welfare	55	23.03	52	51.61	55	53.68	65	66.31
Student Development Expenses	450	261.87	430	428.28	540	535.73	570	572.44
Interest on Term Loan	1200	1087.89	900	864.56	280	271.66	290	285.28
TOTAL OPEX	5708.8	4514.4	5139.58	5112.93	4223.25	4205.4	4544.35	4524.9
TOTAL EXP -CAPEX+OPEX	6367.3	5024.14	9878.08	9796.83	6403.25	6341.45	4857.9	6286.07

10.2.1 Adequacy of budget allocation (10)

(The institution needs to justify that the budget allocated during assessment years was adequate)

Since the department is in growing phase, college management has made it a point that funds should not be a hindrance factor for the healthy rate of growth. Adequate budget is allocated and expenditure is monitored. In no circumstances, teaching learning process is made to suffer because of fund shortage.

Table 10.2d: Adequacy of budget allocation

Sl.No.	Assessment Year	Budget Allocated in Lakhs	Actual Expenditure in Lakhs	Adequate / Non Adequate
1	2018-2019	5708.8	4514.4	Adequate
2	2017-2018	6367.3	5024.14	Adequate
3	2016-2017	9878.08	9796.83	Adequate
4	2015-2016	6403.25	6341.45	Adequate

10.2.2 Utilization of allocated funds (15)

(The institution needs to state how the budget was utilized during assessment years)

During last three years budget allocation and utilization is in order and no deficiency was observed

Table 10.2e: Utilization of funds

Sl.No.	Assessment Year	Budget Allocated in Lakhs (Rs.)	Actual Expenditure in Lakhs (Rs.)	Percentage of Utilization
1	2018-2019	5708.8	4514.4	79.08
2	2017-2018	6367.3	5024.14	78.91
3	2016-2017	9878.08	9796.83	99.18
4	2015-2016	6403.25	6341.45	99.03

10.2.3 Availability of the audited statements on the institute's website (5)

(The institution needs to make audited statements available on its website) Institutional audit statements are available on the institute's website

10.3. Program Specific Budget Allocation, Utilization (30)

Table 10.3a: Program Specific Budget Allocation, Utilization

Computer Science and Engineering								
Items	Budgeted in 2018-2019	Actual Expenses in 2018-2019 till date	Budgeted in 2017-2018	Actual Expenses	Budgeted in 2016-2017	Actual Expenses	Budgeted in 2015-2016	Actual Expenses
Laboratory Equipment	8.00	5.72	0.00	0.00	1.00	0.99	0.00	0.00
Computers/Printers	0.00	0.00	0.15	0.15	20.00	18.36	0.00	0.00
Softwares	0.20	0.12	0.00	0.00	0.00	0.00	0.00	0.00
Projectors	0.00	0.00	1.10	1.12	0.00	0.00	0.00	0.00
Furniture& Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lab Consumables	0.20	0.13	0.30	0.31	0.50	0.47	0.00	0.00
Library	0.25	0.22	0.50	0.53	0.20	0.19	1.90	1.81

Salaries	160.50	119.22	160.66	155.16	171.91	160.68	202.80	196.89
R & D and Paper Publications & participation in workshop	0.30	0.06	0.30	0.28	0.40	0.38	0.90	0.82
Training	2.00	1.83	2.89	2.79	3.15	3.08	2.75	2.70
Project Expo	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
General Expenses	136.33	98.00	134.94	135.16	122.86	121.81	135.55	135.81
Total	307.58	225.33	300.63	295.33	319.72	305.68	344.01	338.13

Civil Engineering Department Budget								
Items	**Budgeted in 2018-2019**	**Actual Expenses in 2018-2019 till date**	**Budgeted in 2017-2018**	**Actual Expenses**	**Budgeted in 2016-2017**	**Actual Expenses**	**Budgeted in 2015-2016**	**Actual Expenses**
Laboratory Equipment	7.00	0.00	0.00	0.00	34.00	34.02	0.00	0.00
Computers/Printers	0.00	0.00	0.30	0.30	9.00	8.50	0.00	0.00
Softwares	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Projectors	0.00	0.00	1.10	1.12	0.40	0.35	0.00	0.00
Furniture& Fixtures	0.00	0.00	0.00	0.00	15.00	14.51	0.00	0.00
Lab Consumables	3.00	0.00	0.50	0.51	0.00	0.00	0.40	0.38
Library	0.25	0.20	0.15	0.14	0.00	0.00	0.90	0.89
Salaries	102.08	77.03	104.05	102.41	105.00	103.54	108.00	107.87
R & D and Paper Publications &	0.28	0.04	0.08	0.08	0.02	0.02	0.15	0.15

participation in workshop								
Training	1.50	1.07	1.80	1.75	2.50	2.56	2.00	2.05
Project Expo	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
General Expenses	136.33	98.00	134.94	135.16	122.86	121.81	135.55	135.81
Total	250.26	176.40	243.02	241.58	288.88	285.41	247.10	247.25

Electronics and Communication Engineering								
Items	**Budgeted in 2018-2019**	**Actual Expenses in 2018-2019 till date**	**Budgeted in 2017-2018**	**Actual Expenses**	**Budgeted in 2016-2017**	**Actual Expenses**	**Budgeted in 2015-2016**	**Actual Expenses**
Laboratory Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.89
Computers/Printers	0.00	0.00	0.30	0.30	0.00	0.00	24.00	23.54
Softwares	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Projectors	0.00	0.00	1.10	1.12	0.00	0.00	0.00	0.00
Furniture & Fixtures	0.00	0.00	1.60	1.59	0.00	0.00	2.50	2.51
Lab Consumables	0.00	0.00	0.20	0.21	0.00	0.00	0.35	0.32
Library	0.15	0.12	0.50	0.53	0.25	0.25	0.50	0.52
Salaries	196.00	165.34	195.00	191.25	180.00	178.82	185.00	183.49
R & D and Paper Publications & participation in workshop	0.40	0.05	0.15	0.14	9.00	8.45	0.00	0.00
Training	1.50	1.23	2.30	2.26	2.20	2.19	4.25	4.15
Project Expo	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
General Expenses	136.33	98.00	134.94	135.16	122.86	121.81	135.55	135.81

Total	197.75	166.80	201.25	197.51	191.55	189.80	217.60	215.53

Mechanical Engineering department								
Items	Budgeted in 2018-2019	Actual Expenses in 2018-2019 till date	Budgeted in 2017-2018	Actual Expenses	Budgeted in 2016-2017	Actual Expenses	Budgeted in 2015-2016	Actual Expenses
Laboratory Equipment	1.00	0.85	11.00	10.75	2.50	2.33	0.00	0.00
Computers/Printers	0.00	0.00	20.00	19.30	0.00	0.00	0.00	0.00
Softwares	5.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00
Projectors	0.00	0.00	1.50	1.49	0.00	0.00	0.00	0.00
Furniture& Fixtures	0.00	0.00	0.60	0.64	0.00	0.00	0.00	0.00
Lab Consumables	1.00	0.84	0.70	0.72	0.60	0.58	3.50	3.28
Library	0.50	0.35	0.15	0.15	0.25	0.22	0.40	0.37
Salaries	216.00	213.15	265.00	260.84	250.00	240.24	260.00	257.15
R & D and Paper Publications & participation in workshop	0.25	0.21	0.30	0.28	0.10	0.09	0.10	0.11
Training	1.20	1.17	2.00	2.04	2.10	2.07	4.35	4.33
Project Expo	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
General Expenses	136.33	98.00	134.94	135.16	122.86	121.81	135.55	135.81
Total	361.13	319.26	436.29	431.47	378.51	367.44	404.00	401.15

Mechatronics Engineering Department								
Items	Budgeted in 2018-2019	Actual Expenses in 2018-2019 till date	Budgeted in 2017-2018	Actual Expenses	Budgeted in 2016-2017	Actual Expenses	Budgeted in 2015-2016	Actual Expenses
Laboratory Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Computers/Printers	0.00	0.00	9.00	8.14	1.50	1.41	0.00	0.00
Softwares	0.00	0.00	24.00	23.58	0.00	0.00	0.00	0.00
Projectors	0.00	0.00	0.40	0.37	0.00	0.00	0.00	0.00
Furniture& Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lab Consumables	0.00	0.00	0.02	0.02	0.00	0.00	0.00	0.00
Library	0.00	0.00	0.03	0.02	0.00	0.00	0.55	0.52
Salaries	60.00	42.69	55.00	51.57	52.00	50.18	62.00	60.77
R & D and Paper Publications & participation in workshop	0.50	0.05	0.10	0.10	0.00	0.00	0.03	0.03
Training	1.00	0.60	0.85	0.84	1.00	1.01	2.30	2.27
Project Expo	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
General Expenses	68.17	49.00	67.47	67.58	61.43	60.90	67.78	67.91
Total	129.27	92.39	156.96	152.33	116.03	113.61	132.76	131.60

10.3.1 Adequacy of budget allocation(10)

(Program needs to state how the budget was utilized during the last three assessment years)
During last three years budget allocation and utilization is in order and no deficiency was observed

Table 10.3b: Program Specific Adequacy of Budget Allocation

Computer Science and Engineering Department				
Sl.No.	**Assessment Year**	**Budget Allocated in Lakhs**	**Actual Expenditure in Lakhs**	**Adequate / Non Adequate**
1	2018-2019	307.58	225.33	Adequate
2	2017-2018	300.63	295.33	Adequate
3	2016-2017	319.72	305.68	Adequate
4	2015-2016	344.01	338.13	Adequate

Civil Engineering Department				
Sl.No.	**Assessment Year**	**Budget Allocated in Lakhs**	**Actual Expenditure in Lakhs**	**Adequate / Non Adequate**
1	2018-2019	250.26	176.40	Adequate
2	2017-2018	243.02	241.58	Adequate
3	2016-2017	288.88	285.41	Adequate
4	2015-2016	247.10	247.25	Adequate

Electronics and Communication Engineering				
Sl.No.	**Assessment Year**	**Budget Allocated in Lakhs**	**Actual Expenditure in Lakhs**	**Adequate / Non Adequate**
1	2018-2019	197.75	166.80	Adequate
2	2017-2018	201.25	197.51	Adequate
3	2016-2017	191.55	189.80	Adequate
4	2015-2016	217.60	215.53	Adequate

Mechanical Engineering				
Sl.No.	Assessment Year	Budget Allocated in Lakhs	Actual Expenditure in Lakhs	Adequate / Non Adequate
1	2018-2019	361.13	319.26	Adequate
2	2017-2018	436.29	431.47	Adequate
3	2016-2017	378.51	367.44	Adequate
4	2015-2016	404.00	401.15	Adequate

Mechatronics Engineering				
Sl.No.	Assessment Year	Budget Allocated in Lakhs	Actual Expenditure in Lakhs	Adequate / Non Adequate
1	2018-2019	129.27	92.39	Adequate
2	2017-2018	156.96	152.33	Adequate
3	2016-2017	116.03	113.61	Adequate
4	2015-2016	132.76	131.60	Adequate

10.3.2 Utilization of allocated funds (20)

Table 10.3c: Program Specific Utilization of allocated funds

Computer Science and Engineering				
Sl.No.	Assessment Year	Budget Allocated in Lakhs	Actual Expenditure in Lakhs	Percentage of Utilization
1	2018-2019	307.58	225.33	73.26
2	2017-2018	300.63	295.33	98.24
3	2016-2017	319.72	305.68	95.61
4	2015-2016	344.01	338.13	98.29

Civil Engineering Department				
Sl.No.	**Assessment Year**	**Budget Allocated in Lakhs**	**Actual Expenditure in Lakhs**	**Percentage of Utilization**
1	2018-2019	250.26	176.40	70.49
2	2017-2018	243.02	241.58	99.41
3	2016-2017	288.88	285.41	98.80
4	2015-2016	247.10	247.25	100.06

Electronics and Communication Engineering				
Sl.No.	**Assessment Year**	**Budget Allocated in Lakhs**	**Actual Expenditure in Lakhs**	**Percentage of Utilization**
1	2018-2019	197.75	166.80	84.34
2	2017-2018	201.25	197.51	98.14
3	2016-2017	191.55	189.80	99.09
4	2015-2016	217.60	215.53	99.05

Mechanical Engineering				
Sl.No.	**Assessment Year**	**Budget Allocated in Lakhs**	**Actual Expenditure in Lakhs**	**Percentage of Utilization**
1	2018-2019	361.13	319.26	88.41
2	2017-2018	436.29	431.47	98.90
3	2016-2017	378.51	367.44	97.07
4	2015-2016	404.00	401.15	99.29

Mechatronics Engineering Department				
Sl.No.	**Assessment Year**	**Budget Allocated in Lakhs**	**Actual Expenditure in Lakhs**	**Percentage of Utilization**
1	2018-2019	129.27	92.39	71.47
2	2017-2018	156.96	152.33	97.05
3	2016-2017	116.03	113.61	97.91
4	2015-2016	132.76	131.60	99.13

10.4 Library and Internet

(20)

(Indicate whether zero deficiency report was received by the Institution for all the assessment years. Effective availability/purchase records and utilization of facilities/equipment etc. to be documented and demonstrated)

The Learning Resource Center, the Central Library of Acharya Institute of Technology with its state-of-the-art facilities and excellent resources plays a more proactive role in providing excellent user services, optimal use of resources and support quality and enhancement in teaching, learning, research and extension. The Library at the heart of the Campus is an intellectual laboratory that provides a leap into the information age and continues to keep pace with the developments in the ICTs and adopt new modes information delivery. The Learning Resource Center, a fully digitized Knowledge Center for accessibility with print and e-resources provides an ideal environment for intellectual inquiry and provides user focused services to obtain and evaluate scholarly information and knowledge available in main formats and strives to create new knowledge to increase understanding and develop wisdom.

The Library has significant collection of books, journals, e-books, e-journals, secondary sources, databases, digital data archival and manuscript collections, digital primary sources to

support the curricular and research needs of all the Departments and also to support the teaching and research mission of the Institute. KOHA – the Library Management software on Cloud computing is used for automation and in-house information management.

Qualified and experienced staff provides easily accessible and cost-effective information services and access to a broad, varied and deep range of information resources and services within all subject areas and at all levels. Access to high quality print and digital books and Journals, e-resources, case studies, Connect2 learning resources, range of study spaces, specialists' advice and assistance in teaching, learning and research with inspirational environments for study and research are provided. Aim of the Library has been to a proactive role in meeting information needs of the users.

Access to information resources under VTU, INDEST, INFLIBNET, DELNET, HELINET consortia are provided in addition to many subscribed national and international databases. Also international network linkages have been established to access learning resources of MIT, Stanford University, University of Illinois, Cambridge University, Oxford University, Tufts University, OCLC, Ohio, USA, National Medical Library, USA, National Agriculture Library, ODI, USA, IDS and other universities and organizations. E-resources of the Library are accessible 24x7 anywhere on campus network (Wi-Fi) and also off campus (remote access through EzProxy).

Extensive user instruction programs and sensitization/awareness programs on information literacy, information management skills are organized regularly. Assistance to access variety of resources directly and through the learning management system are extended. The staff works with students to answer their questions and also to improve their information search skills. Individualized research assistance is provided through a variety of formats including one-on-one consultation, Research librarians, Research Hub drop-in help, email, chat, and text messaging.

The Library extends support to the research and publications process of Faculty and Researchers. Library offers smart, professional and sustainable solutions to the Institute's existing and future research environments, to position itself at cutting edge of technological development and contribute to the increased visibility, dissemination, conservation and evaluation of scholarly production.

The Library offers the users a route for self directed learning and discovery through digital and technological means. The Maker spaces/Fab Labs encourage the users to regain control of technology and design to create new ideas. Digital lending; renting and reference; Bibliotherapy; the Reading Cure; resource sharing, MOOCs, Academic Commons/Learning Commons, FedGate and other Resource Discovery Tools provide new services to enhance student learning and facilitates better collaboration among students, faculty and Professional staff. Question point service "Ask a Librarian" is a unique online service where queries and reference questions are responded within 24 hours to support excellence in Teaching and Learning.

Important Facilities and Services

- Ask-A-Librarian - Question Point Online Reference Service.
- Videoconferencing.
- Wi-Fi accessible across the Library.
- Library e-resources Remote Access (off-campus access) through EzProxy.
- Research Skills and support in Research assignments/projects, consultations, online course guidance, digital class projects etc.,
- User Training, Sensitization and Information Literacy programs.
- Info skills – Identifying, finding, evaluating, referencing and metadata applications.
- Research Data Management, Publishing support, Style Manuals.

- Workshops/Programs on Citations, Citation Management Tools.
- Plagiarism Check tools (Turn-it-In) and services.
- Institutional Repository (Repository of research output, publications, thesis and dissertations and other useful academic archival material).
- SCOPUS - Abstract and Citation database subscribed.
- Research Data Repository (Preserving data generated by the Faculty Members, Research Scholars for in-house use).
- Scientific Productivity and research impact.
- Print, Copy, Scan Services.

10.4.1 Quality of learning Resources (hard/soft) (10)

Library space, ambience, timings and usage, availability of a qualified Librarian and other staff, Library automation, online access, networking are shown in the table.

Table 10.4a: Information on library resources

Carpet area of Library (in m2)	5574 Sqm
Reading Space (in sqm)	1800 Sqm
Number of Seats in reading space(in sqm)	600 Sqm
Number of Users (Issue book) per day	400 per day
Number of Users (reading space) per day	650 per day
Timings: During working day Weekend/Public Holiday Vacation	8.00 am - 10.00 pm 9.00 am - 5.00 pm 8.00 am – 10.00 pm
Number of Library Staff	27
No. of Library Staff with Degree in Library Science	16
Computerization for search, indexing and issue/return records	KOHA Integrated Library Management Software
Bar-coding used	Bar-coding and RFID
Library services on internet / intranet	Both
INDEST or other similar membership specify	VTU Consortium, DELNET, HELINET, N-LIST
Archives	Institutional Repositories (IRs) and Hall of Fame to Preserve History, Honor Excellence and Connect Generation

Titles and Volumes per title

Number of Titles**: 17265** Number of Volumes: **77487**

Year	No. of New Titles added	No. of New Editions added	No. of New Volumes added
2018-19	648	626	1093
2017-18	169	93	563
2016-17	80	49	237
2015-16	924	484	6782

Scholarly Journals Subscription

Year	No. of Technical Magazines/Periodicals	No. of Total Technical Journals Subscribed		Scholarly Journal Titles (in original reprints)
		In Hard Copy	In Soft Copy	
2018-19	20	210	8366	4975
2017-18	18	184	8611	5050
2016-17	Nil	Nil	8611	5050
2015-16	18	Nil	540	350

Digital Library

Availability of Digital Library Contents: • Number of Courses • Number of E-Books • Number of E-Journals • Number of Project Reports	 13 12895 8366 1099
Availability of an exclusive Server:	Amazon Cloud Server
Availability over Intranet/Internet:	Both
Availability of Exclusive Space/Room:	Virtual Learning Resource Lab with 72 Apple Computers
Number of Users per day:	200

Awards received by library

LibTech Award 2019' Best Technology Enabled Library presented at Cochin University of Science and Technology, Cochin on 25th January 2019.

"Innovative Use of Technology in Higher Education Award (South)" during India's leading educational technology event 'EdTechReview Summit and Expo' held on 14th and 15th February 2019. Presented by TCSiON.

Figure: Inauguration of Library by AICTE Chairman and Awards received by the Library

10.4.2 Internet (10)

Name of the Internet provider	BSNL, Regitel online
Available band width	1Gbps
Wi-Fi availability	150Mbps
Internet access in labs, classrooms, library and offices of all Departments	Yes
Security arrangements	Yes

PART - C

ACHARYA INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi, Approved by AICTE, New Delhi and Accredited by NBA and NAAC)

DECLARATION

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concern for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.

It is submitted that information provided in this Self-Assessment Report is factually correct. I understand and agree that an appropriate disciplinary action against the institute will be initiated by the NBA, in case any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

11/03/2019

Signature of Principal

Dr. Prakash MR

PRINCIPAL

ACHARYA INSTITUTE OF TECHNOLOGY

SOLADEVANAHALLI, BENGALURU - 560107

Date: 11/03/2019

Place: Bengaluru

ANNEXURE-I

(A)PROGRAM OUTCOMES (PO's)

Engineering Graduates will be able to:

1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions**: 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.
4. **Conduct investigations of complex problems**: 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.
5. **Modern tool usage**: 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.
6. **The engineer and society**: 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.

7. **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication**: 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.

11. **Project management and finance**: 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.

12. **Life-long learning**: 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.

(B)Program Specific Outcomes (PSO's)

PSOs	Statements
PSO-1	Students shall have the knowledge of hardware, system software, algorithms, networking and data bases.
PSO-2	Students shall design, analyze and develop efficient and secure algorithms using appropriate data structures, databases for processing of data.
PSO-3	Students shall be capable of developing stand alone, embedded and web-based solutions having easy to operate interface using software engineering practices and contemporary computer programming languages.

ANNEXURE-II

Acharya Institute of Technology Acharya Dr.Sarvepalli Radhakrishnan Road,Bangalore-560107 Academic Calender for Even Semester -2018-2019			
FEBRUARY- 2019 **02**			
Day	**Date**	**Department Activity**	**College Activity**
FRI	1	**Commencement of Even Semester BE IV,VI,VIII SEM**	
SAT	2	**Departmental Faculty Meeting-1** **Lakshya Student Forum-Workshop**	
SUN	3	**Holiday**	
MON	4		IQAC Meeting to discuss NBA and NAAC documentations, Academic Council Meeting
TUE	5		
WED	6		
THU	7		1st proctor Coordinator Meeting
FRI	8		
Sat	9	**Lakshya Student Forum-Workshop**	
SUN	10	**Holiday**	
MON	11	**I test for IV sem MTech**	Library Committee meeting
TUE	12		
WED	13		
THU	14	**I Proctor Meeting UG & PG students**	
FRI	15	Last day to send IA marks and attendance of IV sem M Tech through SMS gateway	
SAT	16	**3rd Saturday**	
SUN	17	**Holiday**	
MON	18	Commencement of IV MBA classes	
TUE	19		
WED	20	**Final Year Project Progress Review**	
THU	21	**CR Meeting-1**	
FRI	22		
SAT	23	**Lakshya Student Forum-Workshop**	
SUN	24	**Holiday**	
MON	25	Commencement of II Sem BE & II sem MBA classes	
TUE	26	**Guest Lecture-1**	
WED	27	**DAC Meeting-1**	
THU	28	**I Proctor Meeting for irregular (Chronic) students**	

Acharya Institute of Technology Acharya Dr.Sarvepalli Radhakrishnan Road,Bangalore-560107 Academic Calender for Even Semester -2018-2019			
MARCH -2019 **03**			
Day	**Date**	**Department Activity**	**College Activity**
FRI	1	Comencement of II sem MCA and II sem M Tech Classes	
SAT	2	**Departmental Faculty Meeting-2**	
SUN	3	**Holiday**	
MON	4	**Mahashivaratri**	
TUE	5		
WED	6	**Display of Attedence status of students**	
THU	7	**II Proctor Meeting for irregular (Chronic) students**	
FRI	8	International Women's day	
SAT	9	Submission of syllabus coverage [hard copy to be maintained in the department office, a soft copy to be mailed to Dean Academics & Principal]	
		Lakshya Student Forum-Workshop	
SUN	10	**Holiday**	
MON	11	**I Internal Tests for IV sem, VI Sem, VIII Sem BE** **II internal test for IV sem MTech**	
TUE	12		
WED	13		
THU	14		
FRI	15		
SAT	16	**3rd Saturday**	
SUN	17	**Holiday**	
MON	18	**First Faculty Appraisal Starts**	
TUE	19	Submission of Attendance & IA marks through SMS gateway to parents	
WED	20	**Displaly of 1st IA marks of UG students on Notice Board**	
THU	21	**II Proctor Meeting for regular students UG & PG**	
FRI	22		
SAT	23	**First Faculty Appraisal Ends** **Lakshya Student Forum-Workshop**	Academic Council Meeting
SUN	24	**Holiday**	
MON	25		
TUE	26	**CR Meeting-2**	
WED	27	**Guest Lecture-2**	
THU	28	**DAC Meeting-2**	
FRI	29	**Acharya Habba**	
SAT	30	**Acharya Habba, Alumni Meet**	
		Lakshya Student Forum-Alumni Interaction	
SUN	31	**Holiday**	

Acharya Institute of Technology Acharya Dr.Sarvepalli Radhakrishnan Road,Bangalore-560107 Academic Calender for Even Semester -2018-2019			
APRIL- 2019 **04**			
Day	**Date**	**Department Activity**	**College Activity**
MON	1	Start of IV sem MBA project report submission to VTU	
TUE	2		
WED	3		
THU	4	**II Proctor Meeting for irregular (Chronic) students**	
FRI	5	**Departmental Faculty Meeting-3**	IQAC Meeting
SAT	6	**Ugadi**	
SUN	7	**Holiday**	
MON	8	**Intrim Project Presesnatation(Final Year)** **Display of Attedence status of students**	
TUE	9	**Intrim Project Presesnatation(Final Year)**	
WED	10	**III test for IV sem MTech**	
THU	11	**II Internal Tests for IV sem, VI Sem, VIII Sem BE** **I Internal tests for II Sem BE and II sem M Tech**	
FRI	12		
SAT	13		
SUN	14	**Holiday**	
MON	15	Last day to submit the IV sem MBA project report to VTU	
TUE	16		Academic Council Meeting
WED	17		
THU	18		Library Committee meeting
FRI	19	**Last day to submit IA marks through SMS gate way to parents** Good Friday	
SAT	20	**3rd Saturday**	
SUN	21	**Holiday**	
MON	22	**Guest Lecture-3**	Proctor Coordinator meeting
TUE	23	**Displaly of 2nd IA marks of UG students on Notice Board**	
WED	24	**CR Meeting-3**	
THU	25	**II Proctor Meeting for regular students UG& PG**	
FRI	26	**DAC Meeting-3**	
SAT	27	**Lakshya Student Forum-Hackathon** **Parent-Teacher Meet** **Techninal Seminar Presesntation(Final Year)**	
SUN	28	**Holiday**	
MON	29	**Techninal Seminar Presesntation(Final Year)**	
TUE	30	**Techninal Seminar Presesntation(Final Year)**	

Acharya Institute of Technology Acharya Dr.Sarvepalli Radhakrishnan Road,Bangalore-560107 Academic Calender for Even Semester -2018-2019			
MAY-2019 **05**			
Day	**Date**	**Department Activity**	**College Activity**
WED	1	**MAY DAY**	
THU	2	**Second Faculty Appraisal Starts** **II Proctor Meeting for irregular (Chronic) students**	
FRI	3	**Briefing of Elective subjects of next semester** **Lakshya Student Forum-Crescendo-19 Inauguration,State Level Technical Symposium**	
SAT	4	**Departmental Faculty Meeting-4** **Lakshya Student Forum-Crescendo-19**	
SUN	5	**Holiday**	
MON	6	**Final Project Presentation** Second Faculty Appraisal ends	
TUE	7	**Display of Attedence status of students**	
WED	8		
THU	9	**III Internal Tests for IV sem, VI Sem, VIII Sem BE** **II Internal tests for II Sem BE and, II sem M Tech**	
FRI	10		
SAT	11		Academic Council Meeting
SUN	12	**Holiday**	
MON	13	**Final Project Presentation**	
TUE	14	Project exhibition-Technothsava-2019	
WED	15		
THU	16	Photosession	
FRI	17	Graduation day	
SAT	18	**3rd Saturday, Armed Forces Day,** Last working day for IV &VI sem MCA	
SUN	19	**Holiday**	
MON	20	**Laboratory Internal Assessment Tests**	
		TestLast day to send attendance and IA marks through SMS gateway to parents	
TUE	21	**Laboratory Internal Assessment Tests**	
WED	22	**Laboratory Internal Assessment Tests**	
THU	23	**Laboratory Internal Assessment** Last working day for IV SEM, VI sem and VIII sem BE	
FRI	24		
SAT	25	End of practical exam for IV the sem MCA & Start of VI Sem MCA project submission to VTU	
SUN	26	**Holiday**	
MON	27	**Final Report Submission** **Practical exam starts for IV sem & VI sem BE, Theory exam starts for IV MTech**	
TUE	28	**Display of Final IA marks on Notice Board**	
WED	29	End of VI Sem MCA project submission to VTU	
THU	30		
FRI	31	End of theory exam for IV sem MTech	

Acharya Institute of Technology Acharya Dr.Sarvepalli Radhakrishnan Road,Bangalore-560107 Academic Calender for Even Semester -2018-2019			
JUNE-2019 **06**			
	Date	**Department Activity**	**College Activity**
SAT	1		
SUN	2	**Holiday**	
MON	3	Commencement of theory exam for IV MBA& IV sem MTech Project report to VTU	
TUE	4		
WED	5	ID Ul fitar	**World Environment Day**
THU	6		Library Committee meeting
FRI	7	Practical exam ends for IV sem& VI sem BE	
SAT	8		
SUN	9	**Holiday**	
MON	10	**Theory exam starts for IV sem& VI sem BE**	III IA for II sem BE and II Sem MCA, II MTech, II Sem MBA
TUE	11	**Viva voce exam starts for VIII sem BE**	III IA for II sem BE and II Sem MCA, II MTech, II Sem MBA
WED	12		III IA for II sem BE and II Sem MCA, II MTech, II Sem MBA
THU	13		
FRI	14	**Departmental Faculty Meeting-5**	IQAC Meeting
SAT	15	3rd Saturday End of IV sem MBA project report submission to VTU	End of theory exam for IV MCA
SUN	16	**Holiday**	
MON	17	Last working day for II Sem BE, **Viva Voce exam ends for VIII Sem BE**	
TUE	18	End of IV sem MTech project report submission to VTU	
WED	19	Commencement of Practical exam for II sem BE	
THU	20	Commencement of theory exam for II MBA	
FRI	21	Last working day for II Sem MTech & II Sem MCA	
SAT	22	**Subject Allottment of next odd semester**	
SUN	23	**Holiday**	
MON	24	Commencement of Practical exam for II sem MCA and II semMTech	
TUE	25		Academic Council Meeting
WED	26		
THU	27	**DAC Meeting-4**	
FRI	28	End of theory exam for IV sem MBA	
SAT	29	End of Practical exam for II Sem BE	
SUN	30	**Holiday**	

Acharya Institute of Technology Acharya Dr. Sarvepalli Radhakrishnan Road,Bangalore-560107 Academic Calender for Even Semester -2018-2019			
JULY-2019 **07**			
	Date	**Department Activity**	**College Activity**
MON	1	Commencement of theory exam for II Sem BE, II Sem MCA & II semMTech	
TUE	2		
WED	3		
THU	4	End of theory exam for II MBA	
FRI	5		
SAT	6		
SUN	7	**Holiday**	
MON	8		
TUE	9		
WED	10		
THU	11		
FRI	12	Theory exam ends for II semMTech and II Sem MCA	
SAT	13		
SUN	14	**Holiday**	
MON	15		
TUE	16	End of Theory exam for II Sem,IV sem& VI sem BE	
WED	17		
THU	18		
FRI	19		
SAT	20	**3rd Saturday**	
SUN	21	**Holiday**	
MON	22		
TUE	23		Academic Council Meeting
WED	24		
THU	25		
FRI	26		
SAT	27	Commencement of ODD semester classes for the year 2019-20	
SUN	28	**Holiday**	
MON	29		
TUE	30		
WED	31		

ANNEXURE-III

Faculty Information and contribution 2018-19

Sr. No.	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date of which Designated as professor/Associated Professor	Date of Joining the institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving)	Nature of Association (Regular/Contract)
		Degree (starting of from highest degree)	University	Year of Attaining Higher Qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during		
1	Dr. Prashanth C M	Ph.D	NITK,Suratkal	2011	Full Time	Professor & Head	1-03-2011	07-07-17	CS&E	CS&E	2	4		Y	Regular
2	Dr. P V Kumar	Ph.D	Osmania	2008	Full Time	Professor	28-3-2008	26-11-12	CS&E	CS&E	6	9		Y	Regular
3	Dr. Nagaveni V	Ph. D	Bharathiar	2016	Full Time	Professor	2-07-2018	16-04-07	CS&E	CS&E	1	4		Y	Regular
4	Prof. Varalakshmi B D	M.Tech (Ph. D)	VTU	2002	Full Time	Asst. Prof		09-02-02	CS&E	CS&E	Nil			Y	Regular
5	Prof. Vani K S	M.Tech	VTU	2009	Full Time	Asst. Prof		08-02-04	CS&E	CN	1			Y	Regular
6	Prof. Rajeev Bilagi	M.Tech (Ph.D)	VTU	2006	Full Time	Asst. Prof		11-08-17	CS&E	NIE	Nil			Y	Regular
7	Prof. Vaishak Sundaresh	M.Tech	VTU	2011	Full Time	Asst. Prof		23-07-12	CS&E	NIE	Nil			N(14-12-2018)	Regular

8	Prof. Dayanand Lal N	M.Tech	VTU	2009	Full Time	Asst. Prof		25-07-12	CS&E	CS&E	1			N(28-12-2018)	Regular
9	Prof. Sunil G L	M.Tech (Ph.D)	VTU	2010	Full Time	Asst. Prof		24-7-12	CS&E	CS&E	Nil			N(12-02-2019)	Regular
10	Prof. Latharani T R	M.Tech (Ph. D)	VTU	2011	Full Time	Asst. Prof		29-7-12	CS&E	DE	Nil			Y	Regular
11	Prof. Karthik D U	M.Tech	VTU	2014	Full Time	Asst. Prof		28-7-14	CS&E	CS&E	Nil			Y	Regular
12	Prof. Prasanna Kumar	M.Tech (Ph.D)	VTU	2009	Full Time	Asst. Prof		01-08-17	CS&E	CS&E	Nil			N(19-12-2018)	Regular
13	Prof. Ancy Thomas	M.Tech (Ph.D)	VTU	2009	Full Time	Asst. Prof		11-08-17	CS&E	CS&E	Nil			Y	Regular
14	Prof Prachi Kawalkar	M.Tech	VTU	2015	Full Time	Asst. Prof		26-02-18	CS&E	CS&E	Nil			Y	Regular
15	Prof Geetha N	M.Tech	VTU	2015	Full Time	Asst. Prof		03-03-18	CS&E	CS&E	Nil			Y	Regular
16	Prof Soumiya Patil	M.Tech	VTU	2017	Full Time	Asst. Prof		14-5-18	CS&E	CS&E	Nil			Y	Regular
17	Prof Sushmitha J	M.Tech	VTU	2011	Full Time	Asst. Prof		02-07-18	CS&E	CS&E	Nil			Y	Regular
18	Prof Shruthi H R	M.Tech	VTU	2014	Full Time	Asst. Prof		07-05-18	CS&E	CS&E	Nil			Y	Regular
19	Prof M P Nisha	M.Tech	VTU	2014	Full Time	Asst. Prof		16-07-18	CS&E	CS&E	Nil			Y	Regular
20	Prof Avinash Kumar	M.Tech	VTU	2016	Full Time	Asst. Prof		6-09-2018	CS&E	CNE	Nil			Y	Regular

21	Prof Anupama B S	M.Tech	VTU		Full Time	Asst. Prof		01-08-18	CS&E	CNE	Nil			Y	Regular
22	Prof Kavitha M S	M.Tech	VTU	2009	Full Time	Asst. Prof		08-08-12	CS&E	CS&E	Nil			Y	Regular
23	Prof Chethan M	M.Tech	Bengaluru	2015	Full Time	Asst. Prof		07-08-15	CS&E	CNE	Nil			N	Regular
24	Prof Naganandini	M.Tech	VTU	2010	Full Time	Asst. Prof		08-01-18	CS&E	Bioinformatics	Nil			Y	Regular
25	Prof Akshata B	M.Tech	NITK,Suratkal	2012	Full Time	Asst. Prof		28-07-14	CS&E	SE	Nil			Y	Regular
26	Prof Sunitha B	M.Tech	VTU	2016	Full Time	Asst. Prof		10-08-17	CS&E	CSE	Nil			Y	Regular
27	Prof Sheela S	M.Tech	VTU	2017	Full Time	Asst Prof		24-08-18	CS&E	CSE	Nil			Y	Regular
28	Prof Shruthika Rampure	M.Tech	VTU	2018	Full Time	Asst Prof		13-08-18	CS&E	CNE	Nil			Y	Regular
29	Prof Yateesh N G	M.Tech	VTU	2013	Full Time	Asst. Prof		03-08-15	CS&E	CS&E	Nil			N	Regular
	Prof Ravindra Joshi	M.Tech	Mangalore	1996	Full Time	Asst. Prof		17-12-18	CS&E	CS&E	1			N	Regular
	Prof Soumya C S	M.Tech	VTU	2017	Full Time	Asst. Prof		14-02-19	CS&E	CS&E	Nil			N	Regular

Faculty Information and contribution 2017-2018

Sr. No.	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date of which Designated as professor/Associated Professor	Date of Joining the institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving)	Nature of Association (Regular/Contract)
		Degree (starting of from highest degree)	University	Year of Attaining Higher Qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during Assesment years		
1	Dr. Prashanth C M	Ph.D	NITK,Suratkal	2011	Full Time	Professor & Head	1-03-2011	7-717	CS&E	CS&E	2	4		Y	Regular
2	Dr. P V Kumar	Ph.D	Osmania	2008	Full Time	Professor	28-3-2008	26-11-12	CS&E	CS&E	13	9		Y	Regular
3	Dr. Nagaveni V	Ph. D	Bharathiar	2016	Full Time	Asso Professor	1-1-2017	16-04-07	CS&E	CS&E	2	3		Y	Regular
4	Prof. Varalakshmi B D	M.Tech (Ph. D)	UVCE	2002	Full Time	Asst. Prof		9-2-02	CS&E	CS&E	1			Y	Regular
5	Prof. Vani K S	M.Tech	VTU	2009	Full Time	Asst. Prof		8-2-04	CS&E	CN	2			Y	Regular
6	Prof. Rajeev Bilagi	M.Tech (Ph.D)	VTU	2006	Full Time	Asst. Prof		11-8-17	CS&E	NIE	Nil			Y	Regular
7	Prof. Vaishak S	M.Tech	VTU	2011	Full Time	Asst. Prof		23-07-12	CS&E	NIE	Nil			Y	Regular
8	Prof. Dayanand Lal N	M.Tech	VTU	2009	Full Time	Asst. Prof		25-07-12	CS&E	CS&E	3			Y	Regular

9	Prof. Sunil G L	M.Tech (Ph.D)	VTU	2010	Full Time	Asst. Prof		24-7-12	CS&E	CS&E	1			Y	Regular
10	Prof. Latharani T R	M.Tech (Ph. D)	VTU	2011	Full Time	Asst. Prof		29-7-12	CS&E	DE	Nil			Y	Regular
11	Prof. Karthik D U	M.Tech	VTU	2014	Full Time	Asst. Prof		28-7-14	CS&E	CS&E	Nil			Y	Regular
12	Prof. Prasanna Kumar	M.Tech (Ph.D)	VTU	2009	Full Time	Asst. Prof		1-8-17	CS&E	CS&E	Nil			Y	Regular
13	Prof. Ancy Thomas	M.Tech (Ph.D)	VTU	2009	Full Time	Asst. Prof		11-8-17	CS&E	CS&E	Nil			Y	Regular
14	Prof. Surekha K B	M.Tech (Ph.D)	VTU	2004	Full Time	Asst. Prof		08-01-07	CS&E	CN	Nil		Y	N	Regular
15	Prof. Gayathri Kamath	M.Tech	VTU	2010	Full Time	Asst. Prof		16-08-07	CS&E	CS&E	1			N	Regular
16	Prof. Ziaur Rahman	M.Tech (Ph.D)	VTU	2010	Full Time	Asst. Prof		08-02-10	CS&E	CS&E	Nil			N	Regular
17	Prof. Manujakshi	M.Tech (Ph.D)	VTU	2010	Full Time	Asst. Prof		29-07-12	CS&E	CS&E	Nil			N	Regular
18	Prof. Bhavana A	M.Tech (Ph.D)	VTU	2011	Full Time	Asst. Prof		21-07-15	CS&E	CS&E	Nil			N	Regular
19	Prof. Deepak S Sakkari	M.Tech (Ph.D)	VTU	2005	Full Time	Asst. Prof		6-4-08	CS&E	IT	Nil		Y	N	Regular
20	Prof Jamuna S D	M.Tech	VTU	2017	Full Time	Asst. Prof		01-08-17	CS&E	CNE	Nil			N	Regular
21	Prof Sudarshan	M.Tech	VTU	2005	Full Time	Asst Prof		3-7-17	CS&E	IT	Nil			N	Regular
22	Prof Arpitha N S	M.Tech	VTU	2012	Full Time	Asst Prof		3-7-17	CS&E	CNE	Nil			N	Regular
23	Prof Sowmya.P	M.Tech	VTU	2017	Full Time	Asst Prof		21-08-17	CS&E	CSE	Nil			N	Regular

24	Prof Sunitha B J	M.Tech	VTU	2016	Full Time	Asst Prof		10-8-17	CS&E	CSE	Nil			N	Regular
25	Prof Kavitha M S	M.Tech	VTU	2009	Full Time	Asst. Prof		8-812	CS&E	CS&E	Nil			Y	Regular
26	Prof Yateesh N G	M.Tech	VTU	2013	Full Time	Asst. Prof		3-8-15	CS&E	CS&E	Nil			N	Regular
27	Prof Akshata B	M.Tech	NITK,Suratkal	2012	Full Time	Asst. Prof		28-07-14	CS&E	SE	Nil			Y	Regular
28	Prof Usha Kumari	M.Tech	VTU	2010	Full Time	Asst. Prof		15-02-06	CS&E	CSE	Nil			N	Regular
29	Prof Chethan M	M.Tech	Bengaluru	2015	Full Time	Asst. Prof		7-8-15	CS&E	CNE	Nil			N	Regular

Faculty Information and contribution 2016-2017																
Sr. No.	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date of which Designated as professor/Associated Professor	Date of Joining the institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In	Nature of Association (Regular/Contract)
		Degree (starting of from highest degree)	University	Year of Attaining Higher Qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during Assessment year		
1	Dr. P V Kumar	Ph.D	Osmania	2008	Full Time	Head and Professor	28-3-2008	26-11-12	CS&E	CS&E	16	10		Y	Regular
2	Dr. Nagaveni V	Ph. D	Bharathiar	2016	Full Time	Asst. Prof		16-04-07	CS&E	CS&E	3		Y	Y	Regular
3	Prof. Varalakshmi B D	M.Tech (Ph. D)	UVCE	2002	Full Time	Asst. Prof		9-2-02	CS&E	CS&E	Nil			Y	Regular
4	Prof. Vani K S	M.Tech	VTU	2009	Full Time	Asst. Prof		8-2-04	CS&E	CN	Nil			Y	Regular
5	Prof. Vaishak Sundaresh	M.Tech	VTU	2011	Full Time	Asst. Prof		23-07-12	CS&E	NIE	Nil			Y	Regular
6	Prof. Dayanand Lal N	M.Tech	VTU	2009	Full Time	Asst. Prof		25-07-12	CS&E	CS&E	3			Y	Regular
7	Prof. Sunil G L	M.Tech (Ph.D)	VTU	2010	Full Time	Asst. Prof		24-07-12	CS&E	CS&E	Nil			Y	Regular

8	Prof. Latharani T R	M.Tech (Ph. D)	VTU	2011	Full Time	Asst. Prof		29-07-12	CS&E	DE	Nil			Y	Regular
9	Prof. Karthik D U	M.Tech	VTU	2014	Full Time	Asst. Prof		28-07-14	CS&E	CS&E	Nil			Y	Regular
10	Prof. Nagesha A G	M.Tech (Ph.D)	VTU	2001	Full Time	Asst. Prof		1-9-05	CS&E	CS&E	3			Y	Regular
11	Prof. Surekha K B	M.Tech (Ph.D)	VTU	2004	Full Time	Asst. Prof		1-8-07	CS&E	CN	Nil			Y	Regular
12	Prof. Gayathri Kamath	M.Tech	VTU	2010	Full Time	Asst. Prof		16-08-07	CS&E	CS&E	Nil			Y	Regular
13	Prof. Naidila Sadashiv	M.Tech (Ph.D)	VTU	2006	Full Time	Asst. Prof		2-2-08	CS&E	CS&E	4			Y	Regular
14	Prof. Ziaur Rahman	M.Tech (Ph.D)	VTU	2010	Full Time	Asst. Prof		8-2-10	CS&E	CS&E	1			Y	Regular
15	Prof. Varshini Vidyadhar	M.Tech (Ph.D)	VTU	2011	Full Time	Asst. Prof		7-7-11	CS&E	CS&E	1			Y	Regular
16	Prof. Manujakshi B C	M.Tech (Ph.D)	VTU	2010	Full Time	Asst. Prof		29-07-12	CS&E	CS&E	2			Y	Regular
17	Prof. Bhavana A	M.Tech (Ph.D)	VTU	2011	Full Time	Asst. Prof		21-07-15	CS&E	CS&E	Nil			Y	Regular
18	Prof. Deepak S Sakkari	M.Tech (Ph.D)	VTU	2005	Full Time	Asst. Prof		6-4-08	CS&E	IT	Nil			Y	Regular
19	Prof. Shivanand	M.Tech	VTU	2015	Full Time	Asst. Prof		25-09-02	CS&E	CS&E	Nil			Y	Regular

20	Prof. Mahesh. G	M.Tech	VTU	2015	Full Time	Asst. Prof		09-12-15	CS&E	CS&E	Nil			Y	Regular
21	Prof. Manjunath G S	M.Tech	VTU	2013	Full Time	Asst. Prof		22-07-13	CS&E	CS&E	1			N	Regular
22	Pro Narasimhamurthy	M.Tech (Ph.D)	VTU	2008	Full Time	Asst. Prof		17-01-08	CS&E	CS&E	Nil			N	Regular
23	Prof Mithuna B	M.Tech	VTU	2011	Full Time	Asst Prof		22-7-13	CS&E	CSE	Nil			N	Regular
24	Prof USha Kumari	M.Tech	VTU	2010	Full Time	Asst Prof		15-02-06	CS&E	CSE	Nil			N	Regular
25	Prof Kavyashree D	M.Tech	VTU	2014	Full Time	Asst Prof		5-8-15	CS&E	CSE	Nil			N	Regular
26	Prof Kavitha M S	M.Tech	VTU	2009	Full Time	Asst. Prof		08-08-12	CS&E	CS&E	Nil			Y	Regular
27	Prof Akshata B	M.Tech	NITK,Surathkal	2012	Full Time	Asst. Prof		28-07-14	CS&E	SE	Nil			Y	Regular
28	Prof Sudarshan	M.Tech	VTU	2005	Full Time	Asst Prof		03-07-17	CS&E	IT	Nil			N	Regular
29	Prof Yateesh N G	M.Tech	VTU	2013	Full Time	Asst. Prof		03-08-15	CS&E	CS&E	Nil			N	Regular

Table B.5

Acharya Institute of Technology
Soldevanahalli, Bangalore -560107

Minutes of the Grievance Redressal Committee held on 08/09/2018

Agenda

Sl.No	Agenda
	Review of the earlier Meeting Minutes
2018/09/I	Any issues /grievence with respect to staff and students to be discusssed

Members Present:

Sl NO.	Name	Address	Designation	Contact number & email address
1	Dr Prakash M R	Principal, AIT	Chairman	9448864740 principalait@acharya.ac.in
2	Dr Prakash R	Prof & Head, EEE	Member	9448694645 Hod-eee@acharya.ac.in
3	Dr Devarajaiah	Prof & Head, MT Dean- Academic	Member	9449680516 @acharya.ac.in
4	Dr. Rajeshwari	Prof & Head, ECE	Member	9449827287 Hod-ece@acharya.ac.in
5	Dr Indrani Pramod Khelkar	Prof Maths Dean Students affair	Member	9164685067 indranipramodk@acharya.ac.in
6	Dr. A R K Swamy	Prof , ME, Warden	Member	9035997163 Hod-mt@acharya.ac.in
7	Prof R. Shadakshari	Asst Prof. & Chief Warden, AIT	Member	9481242128 shadaksharir@acharya.ac.in
8	Dr. Ramesh Hegde	HOD of MCA & Chief Proctor, AIT	Convener	9900545520 rameshhegde@acharya.ac.in
9	Sri Ramakrishne Gowda	General Administrations, Acharya institutes	Member	9900197317 ramakrishnagowda@acharya.ac.in
10	Mr. Balagi	Hostel Manager, Acharya Institutes	Member	7618775959 hostelmanager@acharya.ac.in

Members Absent: Nill

Minutes of the meeting:

2019-3-11 17:54

Chairman welcomed all the members for the meeting

ACHARYA INSTITUTE OF TECHNOLOGY, SOLDEVANAHALLI, BANGALORE-560107

Grievance Redressal Committee Meeting held on 08/09/2018 in the Principal's Chamber at 11.30AM

Sl NO.	Name	Address	Designation	Signature
1	Dr M R Prakash	Principal, AIT	Chairman	8/9/18
2	Dr Prakash R	Prof & Head, EEE Dean- Student affairs	Member	8/9/18
3	Dr. Indrani Khelkar	Prof in Maths Dean- Student Affairs	Member	8/9/18
4	Dr. Rajeshwari	Prof & Head, ECE	Member	8/9/18
5	Dr. Devarajaiah Dean Academics	Prof & Head, MT	Member	8.9.18
6	Prof R. Shadakshari	Asst Prof. Mech & Chief Warden, AIT	Member	8/9/18
7	Dr. Ramesh Hegde	HOD of MCA	Convener	8/9/18
8	Sri Ramakrishne Gowda	General Administrations, Acharya institutes	Member	AB.
9	Dr ARK Swamy	Prof Mechanical Engg. Warden	Member	8/9/18
10	Mr. Balagi 7618775959	Hostel Manager, Acharya Institutes	Member	

Acharya Institutes email

nagapushpa K.P. <nagapushpa@acharya.ac.in>

Regarding Women Cell meeting

1 message

nagapushpa K.P. <nagapushpa@acharya.ac.in> Sat, Mar 26, 2016 at 10:22 AM
To: uma warrier <warrier.uma@gmail.com>, hanumanthegowda@acharya.ac.in, varalakshmi@acharya.ac.in, gopinath@acharya.ac.in, renuka devi <renukadevi@acharya.ac.in>, darshini.becs.12@acharya.ac.in, pushpalatha.amca.14@acharya.ac.in
Cc: principalait acharya <principalait@acharya.ac.in>

Dear Members,

Warm Wishes to all .

Executive members are informed to attend the executive committee meeting scheduled at 2pm on Monday, 28th March 2016 at the principal Office

List of revised executive members is attached for your reference.

Agenda:

1 Review of previous meeting

2 Any Complaints received and action Taken

3 To plan the events for this academic semester

All are requested to the meeting .

Best Wishes and Regards,

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ನಾಗಪುಷ್ಪ ಕೆ ಪಿ
Assistant Professor
Dept of ECE
Acharya institute of Technology, Bangalore
Mobile Number:9880850112

Hard work has no substitute, Work hard and achieve success"

Anti-Sexual Harrasment committee.xlsx
61K

ACHARYA INSTITUTE OF TECHNOLOGY

Acharya Dr. SarvepalliRadhakrishnan Road, Bangalore-560107

Women Cell

MINUTES OF MEETING

Date: 28- 03-2016 Time: 2 pm

Agenda of the meeting:

1 Review of previous meeting

2 Any Complaints received and action Taken

3 To plan the events for this academic semester

Members Present:

1. Dr H D Maheshappa, Principal AIT- CHAIRMAN
2. Dr Uma Warrier, NGO Consultant - Counselor
3. Prof Nagapushpa K.P, Department of ECE, AIT- Member Secretary
4. Prof HanumantheGowda, Legal Adviser
5. Prof Varalakshmi, Department of CSE, AIT, Presiding officer

6 Ms Darshini, Student Representative

Members Absent:

1 Dr. S. M. Gopinath, HOD, Department of Biotechnology, Member

2. Renuka Devi, Administration Officer, AIT- Member

3. Ms Pushpalatha, Student Representative.

Proceedings of the meeting:

The Chairman welcomed all the Executive members for the Women Cell meeting and reviewed on previous discussions. Chairman briefed about the resolutions of women cell held on 27/2/15 to all the Executive members which includes the following:

It was decided to conduct three activities per semester covering scope and objectives of the women cell and only poster presentation activity was conducted. The Poster Competition was held on 14-3-15 and the theme was EMPOWERED WOMEN FROM INDIA from the field of Politics, Government or Private Corporations, Sports, Arts, Media, Medicine, Science, Literature, Ordinary Women Doing Extraordinary things to make small positive differences, Social Workers and any other field. There was a good response from the students as well as faculty members. He also brought to the notice of the members that some of the works are pending and expected to be conducted as per the schedule. Following are the points discussed/ brought out in this meeting

Dr Uma Warrier, Chief counselor gave the following suggestions:

- Strengthen the work force of women cell
- To conduct documentary shows on issues concerning women
- To Tie up with NGOs, and carry out activities for women strengthening.
- To tie up with the nearby hospitals and to organize workshops that are concerned with the women related issues.
- Identify the women cell by having separate logo ,name and e- brochure for better visibility and publicity
- To Constitute two wings of women cell each of them having separate committee members
    - Regulatory and statutory body – To Look after Grievances
    - Women Association- To Conducts activities
- To conduct Guest lecturers for students
- A Template for reporting the complaints to be made available for the members
- To organize a walkathon for the social cause of the women

Nagapushpa

Signature of Member Secretary

Signature of Chairman

ACHARYA INSTITUTE OF TECHNOLOGY

Acharya Dr. SarvepalliRadhakrishnan Road, Bangalore-560107

Date: 28/3/2016

Attendance of AIT Women cell meeting held on 28-3-16 in the principal office

Sl No	Name	Designation	Signature
1	Dr .H.D.MAHESHAPPA	Chairman	
2	Dr.UMA WARRIER	NGO Consultant Chief Counsellor jain university	
3	Ms.NAGAPUSHPA.K.P	Member Secretary	
4	Mr.HANUMANTHEGOWDA.N.A	Legal Advisor	
5	Mrs.VARALAKSHMI.B.D	Presiding officer	
6	Dr. S.M.GOPINATH	Member	ABSENT
7	Mrs RENUKADEVI	Member	ABSENT
8	Ms.DARSHINI.N	Member	
9	Ms.PUSHPALATHA.M	Member	ABSENT

Nagapushpa

Signature of chairman