# K. J. Somaiya College of Engineering
(Autonomous College Affiliated to University of Mumbai)

Department of Electronics and Telecommunication Engineering
January- June 2019

Newsletter

K J Somaiya College of Engineering
(Autonomous College Affiliated to University of Mumbai)
Department of Electronics and Telecommunications

January- June 2019   *Message from the Desk of Head*

Inside This Issue

- Message from the Desk of Head
- Department Activities
- Funded Projects
- Laboratory Development
- Faculty Activities
- Student Activities
- Result Analysis(BTech & MTech)
- Placement Details
- Student Internship

It's my pleasure to present you department newsletter for the last semester. The semester was marked by many activities and events for the students as well as faculty members. The Centre of Excellence (Cisco Academy) activities are in full swing and many of the KJSCE students have taken benefit in the form of projects, internships, training, etc. Similar initiatives were taken by Texas innovation centre as well. The establishment of such centres was well appreciated by industry personnel and they are looking forward for placement of students trained under such centres.

In order to boost the placements of Electronics and Telecommunication Engineering department and moreover to make students ready for the placement process, the department has taken various initiatives. One of such initiative was the conduction of the SCDP (Student's Career Development Program). This program was conducted by the last year students under the guidance of the faculty members for TY students. Many of the students have benefited by this activity. It is our pleasure to announce that there are 109 unique placements for academic year 2018-19 which is at par with computer and IT department placements.

On the internship side many of Electronics and Telecommunication Engineering department students have completed internships in reputed

companies such as Reliance Jio, MTNL, L&T, NPCIL, etc. Additionally our students have participated in co-curricular/ extra-curricular / social activities as well and many students have won accolades at various levels.

The department has undergone academic audit and suggestions given by the audit members are under consideration. The department has planned systematic growth keeping department thrust areas under focus. Accordingly the department thrust area coordinators have started planning in this direction. The department is always committed to the overall development of students, faculty and staff members and suggestions from everyone are most welcome.

Department Activities

Congratulations to Dr. Bharti Singh and Dr. Kiran Ajetrao for the completion of Ph.D.

Funded Projects

Mumbai University Minor Research Proposal approved for Academic year 2018-19

Title: Microcontroller based online support system for maintenance and monitoring electrical and physical parameters of solar PV panel

Faculty members: Prof. Ameya Gawde, Dr. R G Karandikar, Dr. K N Patil

Title: Automated Drip irrigating system for hoe gardening

Faculty members: Prof. Deepak Kulkarni, Prof. Mahesh Warang, Prof. Parul Sindhwad

New Facility in the Laboratory

Jan-June 2019

DSP Laboratory: Real time Data Acquisition System and Simulators of biomedical data (ECG, EEG, PCG).

Antenna Laboratory: Antenna radiation pattern measurement kit.

Faculty Activities

Organization and Participation at Guest Lectures /STTP/Workshops /Seminars

1st to 7th July, 2019

Dr. Ameya Naik and Prof. Nitin Nagori co-ordinated AICTE-ISTE Approved One Week Short term Training Program on "Networking Fundamentals with Hands on Training (in Collaboration with CISCO Networking Academy)".

Participants:

Prof. Swati Mahajan, Prof. Jennifer Esther, Prof. Bharti Singh, Prof. Baishakhi Bose, Prof. Rupali Patil, Prof. Sangeeta Kulkarni, Prof. Amey Gawde, Prof Sharvari Deshmane, Prof Akshata Prabhu, Prof. Ankit Khivasara

July 2019

Prof. Sandeep Sainkar ,Invited as a speaker for STTP on "Recent trends and development in modern antennas, RF and Microwave System", at KJSIT, July 2019.

10th to 14th June, 2019

Prof. Savita Sonukale, Prof. Chaitali Kulkarni and Prof. Kartik Patel attended AICTE-ISTE approved one week STTP on "Industrial IoT System Design from Sensing to Mitigation" organized by Electronics Engineering

department, K. J. Somaiya College of Engineering.

12th June 2019

Prof. Chaitali Kulkarni , invited as resource person for hands on session AICTE-ISTE approved one week STTP on "Industrial IoT System Design from Sensing to Mitigation", ETRX KJSCE.

6th June, 2019

Prof. Swati Mahajan and Prof. Zaheed Shaikh organized a workshop "Development of Virtual Laboratory".

14th to 15th May, 2019

Prof. Bharti Singh and Prof. Baishakhi Bose attended ISTE approved 2-Days hands-on workshop on "Wireless Network Simulation- Emulation using Qualnet-Exata" organized by Computer Engineering department, K. J. Somaiya College of Engineering.

29th May, 2019

Prof. Rupali Patil organised "Python workshop" for interested learners .

24th & 25th April, 2019

Prof. Jayshree Kundargi participated in the two day workshop on "Understanding the IMC RBNQA Criteria for Performance Excellence" organized by IMC Ramkrishna Bajaj National Quality Award Trust at IMC Chamber of Commerce & Industry, Mumbai

10th April, 2019

Prof. Amey Gawde organized guest lecture on "Implementation of security in CISCO packet tracer and industry expectations from students studying networking" for T.Y. (EXTC) & L.Y. B. Tech (EXTC) at K. J. Somaiya College of Engineering.

6th April, 2019

Prof. Chaitali Kulkarni organised Drishti online contest by Texas Instruments, Topic: Tiva Launchpad.

18th to 20th March, 2019

Prof. Akshata Prabhu organized "Three Days MSP430 Advance Workshop" with IETE council for F. Y. B. Tech. students, KJSCE.

13th March, 2019

Prof. Sharvari Deshmane organized guest lecture on "Industrial Application of Networking" for T.Y. (EXTC) & L.Y. B. Tech (EXTC). at K. J. Somaiya College of Engineering

9th March, 2019

Prof. Swati Mahajan and Prof. Jennifer Esther organised one -day workshop on "Facilities offered by Canara Bank" at EXTC, KJSCE.

22nd February, 2019

Prof. Sharvari Deshmane and Prof. Amey Gawde attended emerging technologies workshop on "Network Programmability" with CISCO APIC-

EM organized by CISCO Networking Academy

14th to 15th February, 2019

Prof. Sharvari Deshmane and Prof. Amey Gawde attended 2019 CISCO Networking Academy Conference-India, Noida, Uttar Pradesh organized by CISCO Networking Academy

11th February, 2019

Prof. Sangeeta Kulkarni, Prof. Ruchira Jadhav, Prof. Akshata Prabhu and Prof. Esther Jennifer Isaac attended FDP on "Lateral Thinking" organized by Training & Placement Cell, KJSCE

2nd to 3rd February, 2019

Prof. Chetna Singh organized national workshop on "Ethical Hacking and Cyber Security" organized by Technex'19, IIT Varanasi in association with Innovians Technologies (India) for Students & Faculty of K. J. Somaiya College of Engineering

2nd to 3rd February, 2019

Prof. Sharvari Deshmane attended national workshop on "Ethical Hacking and Cyber Security" organized by Technex'19, IIT Varanasi in association with Innovians Technologies (India)

1st February, 2019

Prof. Sangeeta Kulkarni attended "Examination Reforms Workshop" organised by AICTE western region in Government College of Engineering Pune.

12th January, 2019

Dr. Manish Potey, Prof. Babaso Aldar and Prof. Anudeepa Kholapure organized workshop on "Learning Management System" for faculty of K. J. Somaiya College of Engineering

8th to 12th January, 2019

Prof. Baishakhi Bose attended AICTE-ISTE approved Induction/Refresher Programme " Linear Algebra, Statistics, Mathematical, Modeling: Hands on" at KJSCE.

7th to 8th January, 2019

Prof. Swati Mahajan and Prof. Sangeeta Kulkarni attended ICTIEE 2019 International Conference on "Transformations in Engineering Education" organized by Malla Reddy Engineering College (Autonomous), Hyderabad, Telangana, India

2nd to 8th January, 2019

Prof. Kartik Patel attended one week ISTE Short Term Training Program on "Green Internet of Things" organized by Vivekanand Education Society's Institute of Technology, Dept. of EXTC in collaboration with Capgemini.

3rd & 4th January, 2019

Prof. Sandeep Sainkar , invited as guest speaker on topic of "Practical RF/ Microwave Active Circuit Design" organized by BITS-Pillani, Hyderabad Campus.

2nd to 6th January, 2019

Prof. Sandeep Sainkar and Prof. Dipak Kulkarni attended workshop on "Practical RF/Microwave Active Circuit Design" organized by BITS-Pillani, Hyderabad Campus

January, 2019

Prof. Sangeeta Kulkarni participated in HR Meet (Support, Guidance, Participation) with Industry, TPO KJSCE.

Poster Presentation

12th March, 2019

Prof. Savita Raut participated in poster presentation at Mumbai University

Faculty Publications

Prof. Mahesh Warang, Divyam Dharod, Arjun Patel, Vraj Sheth, Sanuj Philip "Inexpensive Piezoelectricity-Based Milk Adulteration Detection to validate Consumption and Distribution Hygiene" IJISRT A Digital Library, Volume 4, Issue 6, Article Digital No. IJISRT19JU643, June 2019

Prof. Rohini Deshpande, Mugdha Pilankar, Soumyabrata Ghosh "Image Registration using particle filter with combined normalized mutual information and correlation coefficient" IEEE International Conference, April 2019

Prof. . Sangeeta Kulkarni and Co-author " Automated Soil Macro-Nutrient Analyzer using Embedded Systems" IEEE International Conference, April 2019

Prof. Akshata Prabhu" Data Mining using K-means and Hierarchical Clustering Algorithms: A case study Approach" 4th International Conference on "Recent Advances & Challenges in Engineering & Management" (RACEM-2019), 29th to 30th March, 2019

Faculty Conclave, KJSCE

12th July, 2019

Prof. Vandana Satam presented abstract titled: Impact of Co-Operative Group Learning in Engineering Education.

Prof. Kartik Patel presented abstract titled: Implementation of Team-Game-Tournament (TGT) Cooperative Learning Environment

Prof. Chaitali Kulkarni presented abstract titled: "Blogging: A Diversify Assessment Tool in Engineering Education

Prof. Akshata Prabhu presented abstract titled: "Use of Laboratory Sessions for Better Understanding of Theoretical Subjects"

Online Courses

28th February, 2019

Prof. Amey Gawde, Prof. Sharvari Deshmane completed online course "Introduction to Packet Tracer Course" organized by CISCO Networking Academy

January to April, 2019

Prof. Anudeepa Kholapure completed online course "Cryptography and Network Security" organized by Indian Institute of Technology Kharagpur.

January to February, 2019

Prof. Vandana Satam completed online course "Effective Engineering Teaching in Practice" organized NPTEL-AICTE, FDP, IIT Madras

Technical Paper Review

July, 2019

Prof. Kartik Patel reviewer for IEEE Access.

January, 2019

Prof. Sangeeta Kulkarni reviewed extended abstracts for ICTIEE 2019 Sixth International Conference on Transformations in Engineering Education.

Book Review

15th March, 2019

Prof. Anudeepa Kholapure reviewer of five chapters titled on "Network Analysis and Synthesis" published by McGraw Hill Education (India) Private Ltd.

Industrial Visits

25th March, 2019

Prof. Chetna Singh organized industrial visit to "I-Medita, Pune-Cisco Networking Labs". Prof. Ameya Gawade accompanied the visit. Thirty students from TY. B.Tech participated.

Sangeeta Kulkarni, Prof. Sandeep Sainkar, Prof. Shrikant Chawade and Prof. Pushpendra Rai

.

19th January, 2019

Industrial visit to Aplab, Thane for FY B. Tech students of EXTC department was organised as a part of Industrial applications by Prof. Sangeeta Kulkarni and Prof. Sandeep Sainkar.

Student Activities

Best student award for the year 2018-19 batch was awarded to Miss Rajasi Ahuja by Head of Department and Associate Head of Department.

16th March, 2019

Industrial visit to CETTM, MTNL Powai for FY B. Tech students of EXTC department was organised as a part of Industrial applications by Prof.

Technical Event Participation

Sr. No.	Name	Year	Technical activities			
			Title	Name of the activity/ venue	Date	Prize Won
1	Guruprasad Bhat	SY	e-Yantra Robotics Competetion	e-Yantra (initiative under MHRD)	24/2/2019	semifinal stage
2	Mansi Walke	TY	ANT BOT	IIT BOMBAY EYANTRA ROBOTICS COMPETITION	24/2/2019	semi final
3	Soofiyan Atar	TY	Robocon	IIT delhi	16/6/2019	ongoing selected for round 1
4	Soofiyan Atar	TY	Eyantra	IIT Bombay	28/3/2019	finalist (ongoing)
5	Soofiyan Atar	TY	Vlabs	IIT Bombay	22/2/2019	got silver certificate(on going for golden certificate)
6	Rounak Nayee	TY	ANTBOT theme within the competition	E-Yantra IIT Bombay	24/2/2019	reached semifinals
7	Shreyas Laxmikant Borse	TY	e-Yantra Robotics Competition (e-YRC) 2018.	IIT Bombay	30/3/2019	winner : national rank 3
8	Saipriya Ganesh Iyer	TY	Nutty Squirrel	E-Yantra	24/2/2019	semifinal participation
9	Saipriya Ganesh Iyer	TY	Portable Cosmetic Heating Solution	SIH 2019	5/2/2019	selected for second round
10	Ashwin Prajapati	TY	e-Yantra Robotics competition	e-Yantra	2/24/2019	semifinal
11	Rashi Vora	TY	ANT_BOT Theme	IIT Bombay - Eyantra Robotics Competition	24/2/2019	semi-finalists (top 60 all over india.)

Sr.	Name	Year	Technical activities			
12	Bharathi Kumar	TY	MOCKING	EYANTRA	3/3/2019	qualified second round
13	Sarthak shah	TY	Green building	Student council of KJSCE	6/10/2018	2nd prize
14	Harshil Parekh	TY	Prakalpa	Iste	23/3/2019	2nd
15	Praneeth Naidu	TY	SIH	ministry of humanities	5/2/2019	selected for round 2
16	Shreyash Baria	TY	eYRCAntbot	IIT B Eyantra	24/2/2019	semifinal round
17	Yogesh Chikhale	TY	Escape the labyrinth	ISTE	5/10/2018	1st
18	Poojan Dholakia	LY	E-yantra Ideas Competition	CSE department IIT Bombay	5/4/2019	"best hardware" award to b.tech project
19	Poojan Dholakia	LY	Prakalpe 2019	ISTE,Kjsce	23/3/2019	1st prize in hardware category to b.tech project
20	Sorabh Rathod	LY	EYRC	IITB	29/3/2019	3rd
21	Kush Pandya	LY	TECH QUIZ	IETE	2/2/2019	1st
22	Omkar Maruti Gawade	LY	Tech Quiz	Abhiyantriki	2/2/2019	1st prize
23	Adhish Velingkar	LY	TIVa	Texas Instruments	6/04/2019	1st prize

IETE-KJSCE-ISF

Following Activities were conducted

1. IETE First Year Orientation 2018
2. Workshop on Microcontroller TEXAS INSTRUMENTS MSP430
3. Tech-eshi's Castle (IETE KJSCE- ABHIYANTRIKI 2018)
4. Nature Walk 2018 - Naneghat Hills
5. Oscillations 2019 - Seminar on Potential of Drone industry and applications
6. Seminar on Profile building, Scholarships and Cracking aptitude Exams by BYJU's
7. Music Production Seminar

8. IETE Social
9. Project Competition
10. Convocation

Few Glimpses of IETE events

Paper publications of B. Tech & M. Tech (2018-2019)

Name of Author,Co-authors	Title of Paper	Name of conference	Place	Date
Shreyas L Borse,	Photo Transistor Array with SPI Communication for Robot sensing.	5th Internationa;l Conference for Convergence in Technology 2019	Pune	29th -31st March, 2019
Vivek Mange, Priyam Shah, Vishal Kothari	Autonomous Underwater Vehicle: Electronics and Software Implementation of the Proton AUV	International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 06		06 June 2019
Jeenal Mulchand Rambhia, Ameya K. Naik	Analysis Of Different Heart Rate Monitoring And Pre-Processing Techniques For ECG	3rd Biennial International Conference on Nascent Technologies in Engineering 2019	Navi Mumbai	4th and 5th January 2019
Khandale Sagar Rajendra, Dipak Kulkarni	5G Technology & its Challenges	International Conference on Communication and Signal Processing – ICCSP' 19	Adhiparasakthi Engineering College, Melmaruvathur, Tamilnadu, India	4th April – 6th April 2019
Devika Tanna,Nitin Nagori	Facial Biometric Privacy Using Visual Cryptography: A Fundamental Approach to enhance the Security of Facial Biometric Data	World Academy of Science , Engineering and Technology	Dubai	30th -31st January 2019
Jeenal Rambhia, Ameya K. Naik	Arrhythmia detection and classification by neural network using ecg	2nd international conference on advances in science and technology (ICAST 2019)	Mumbai	8th and 9th April 2019

	features			
Shriya Tawarawala, Ameya K. Naik	Diet Prediction and Feature Importance of Gut Microbiome using Machine Learning	ICEECE-2019	PANDHARPUR	29th -30th March 2019
Somesh Mule, Bharati Singh	Measurement of Angular Velocity and Tilt Angle of Two Dimensional Fiber Optic Gyroscope with Sagnac Effect	3rd International Conference in Optical and Wireless Technologies (OWT-2019), MNT, Jaipur Springer Publication	Jaipur	16th & 17th March, 2019
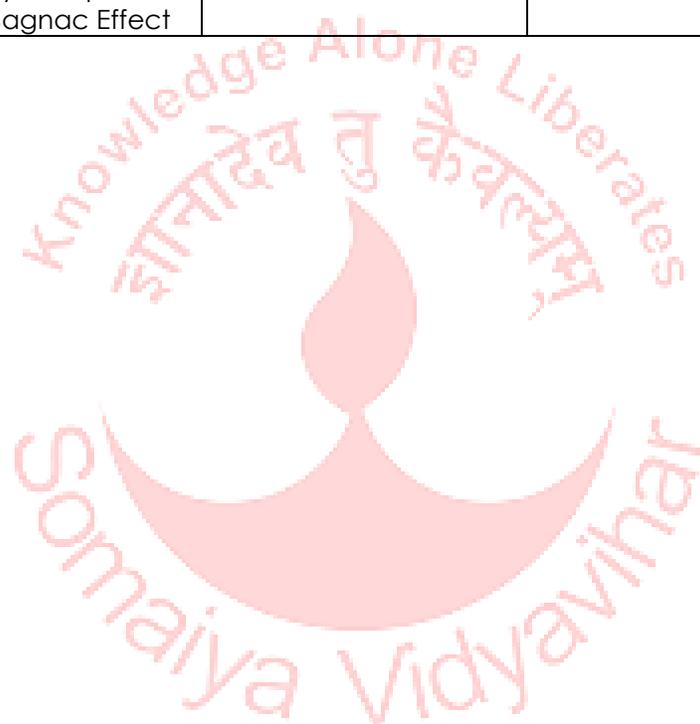
Result Analysis: Nov-Dec 2018

- **B. Tech**

Sem III					
GPA	>=7.5	<7.5 and >=6.5	<6.5 and >=5.5	<5.5	Fail
Number of Students	84	29	11	1	40
Total	165				

Sem III
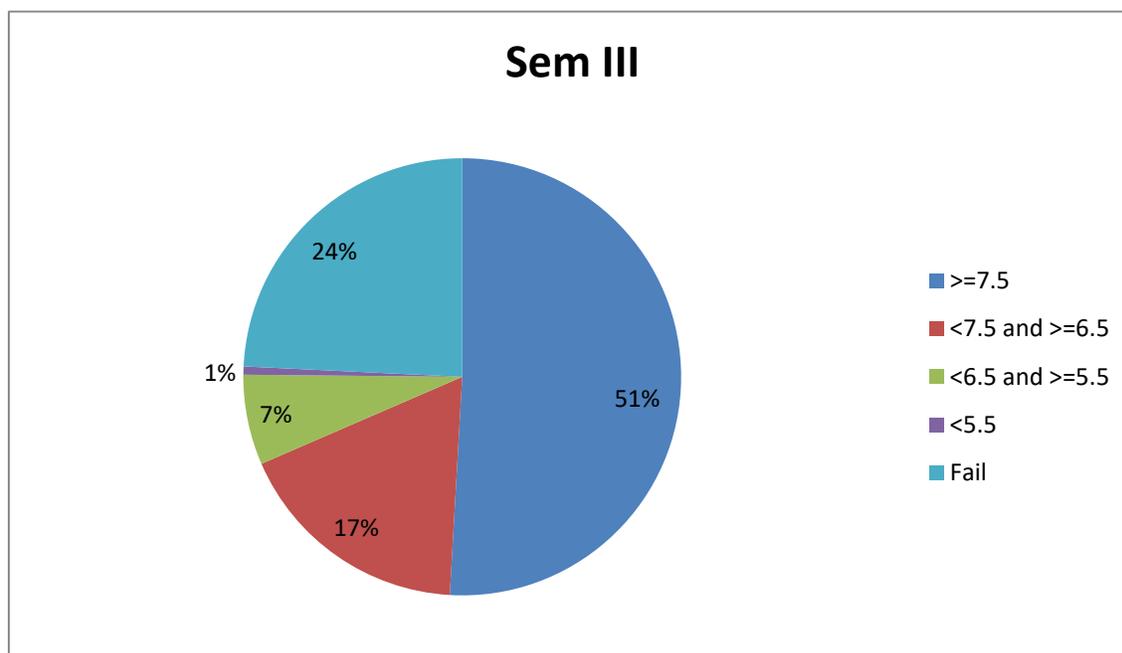
Toppers		
Name	**GPA**	**Rank**
Jhamb Harsh Kumar Babita	9.88	1
Acharya Nitya Yogesh Chetna	9.88	1
Kumbhar Abhishek Vikram Manisha	9.88	1
Dixit Aditi Sandeep Rekha	9.83	2
Patil Akash Bhairu Bhagyashri	9.83	2
Sharma Rohit Pravin Smita	9.67	3
Shaikh Jasmine Jalalchandani	9.5	4
Achhra Mohit Mohankumar Ritu	9.42	5
Alavi Adam Khuzema Munira	9.42	5

Sem V					
GPA	>=7.5	<7.5 and >=6.5	<6.5 and >=5.5	<5.5	Fail
Number of Students	35	64	19	3	35
Total	156				
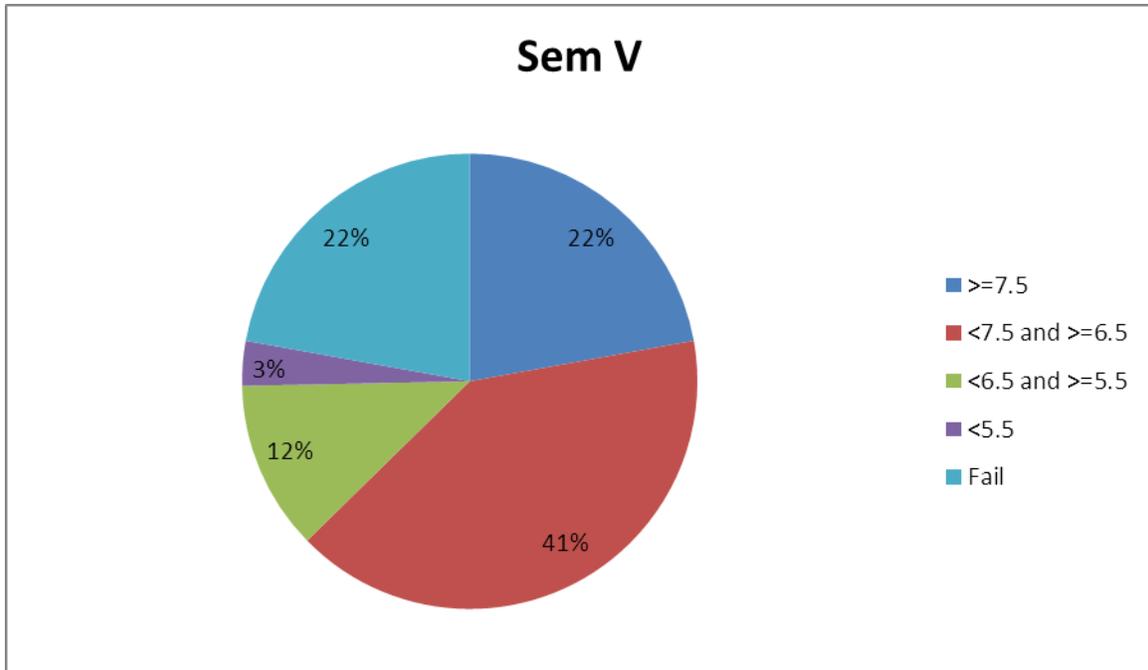
Toppers		
Name	GPA	Rank
Bhambure Saloni Rajeev Suchita	9.57	1
Preetha Ranganathan Jayanthi	9.57	1
Upasani Rujuta Subhash Aruna	9.43	2
Y V N S Sripriya Y Durga Kalyani	9.43	2
Shah Shrey Kalpesh Sejal	9.05	3
Gupta Aditi Rajesh Sunita	9.05	3
Iyer Saipriya Ganesh Sundarakanchani	9	4
Patil Yash Suhas Neha	8.76	5

Sem VII					
GPA	>=7.5	<7.5 and >=6.5	<6.5 and >=5.5	<5.5	Fail
Number of Students	103	38	6	0	3
Total	150				
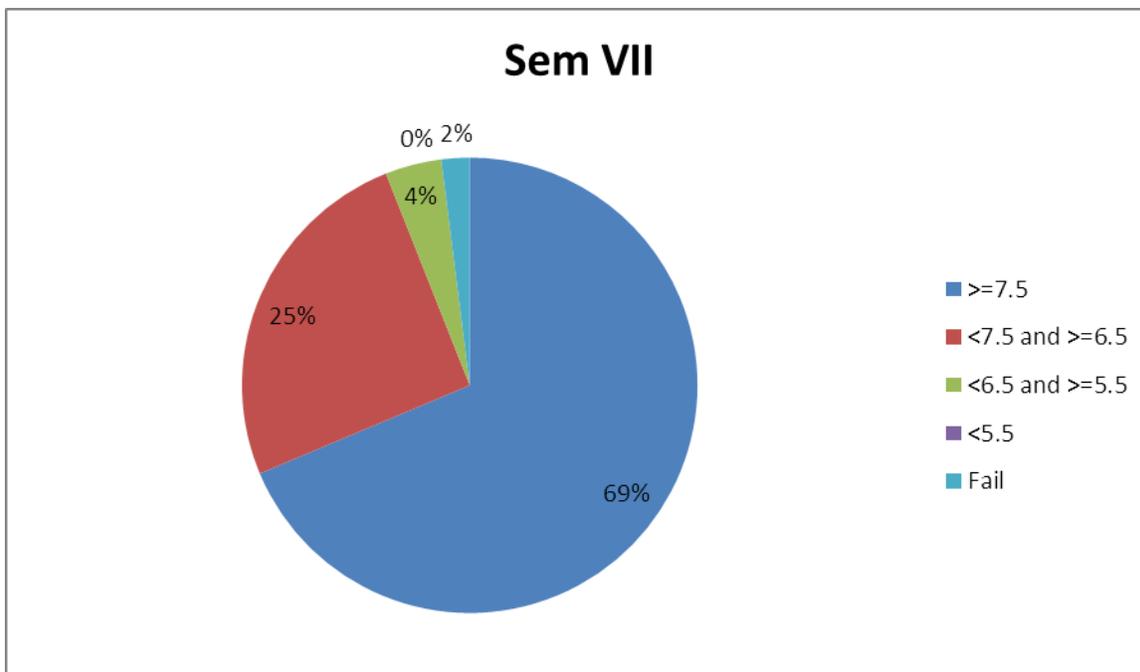
Toppers		
Name	GPA	Rank
Bajaj Divith Niraj Rashmi	9.73	1
Bhagat Priya Jitendra Anjana	9.14	2
Ahuja Rajasi	9.09	3
Rathod Sorabh Dharmendra Meena	9.05	4
Yadav Divakar Radheshyam Sarita	9	5
Tandon Neha	9	5

- **M. Tech**

Batch: 2016-18 Result Analysis

M Tech					
GPA	>=7.5	<7.5 and >=6.5	<6.5 and >=5.5	<5.5	Fail
Number of Students	16	01	0	0	0
Total	17				
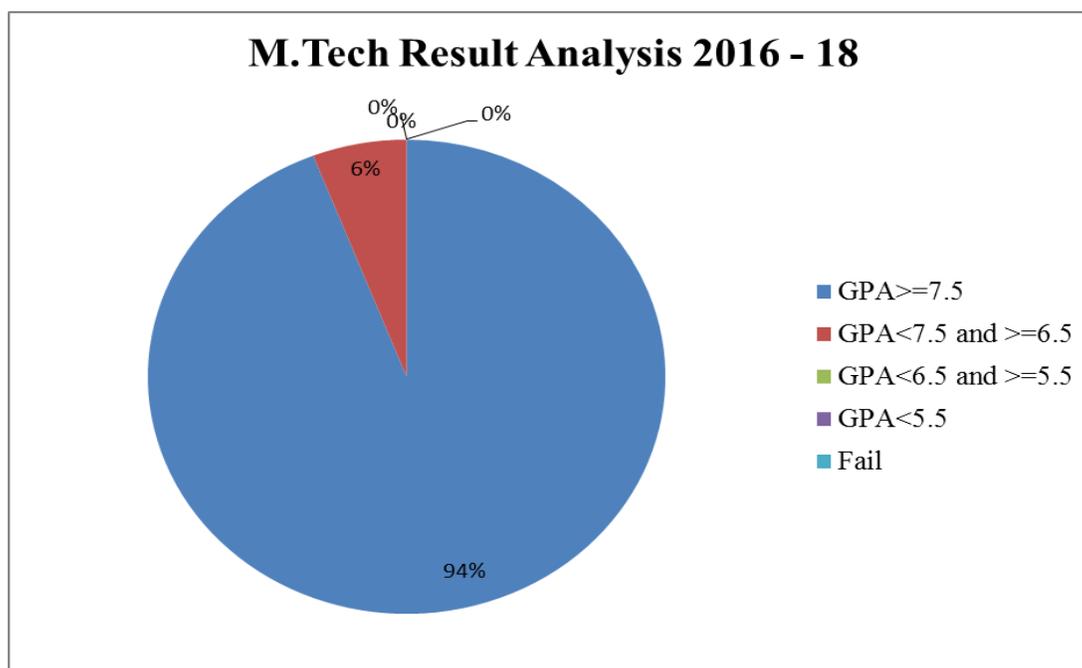
Toppers		
Name	**GPA**	**Rank**
Parab Suyog Sudhakar Shobha	9.08	1st
Jagtap Harshal Sanjay Sunita	8.98	2nd
Ghodekar Sailee Balasaheb Seema	8.96	3rd

Placement:

Sr. No.	Name of the Company	CTC in lacs	No. of students placed
1.	Seclore Technology	6.00	1
2.	Microfocus	11.50	1
3.	Amadeus Lab	8.35	3
4.	Accenture	4.00	54
5.	Colgate-Palmolive	5.58	3
6.	L&T Infotech	4.18	3
7.	EY	4.25	2
8.	Capgemini Phase 1	3.50	6
9.	Majesco	3.75	4
10.	Oracles	6.40	1
11.	NSEIT	3.00	2
12.	TCS Ninja	3.30	1
13.	Performics.Convonix	3.20	1
14.	Reliance Industries Limited	5.50	2
15.	Tata Communications	3.60	1
16.	Pool Campus-Wipro Ltd	3.50	1
17.	Cartesian Consulting	5.00	2
18.	VPhrase Analytics Solutions Pvt. Ltd.	3.30	5
19.	Orange Business Services	4.50	4
20.	Think & Learn (Byjus')	10.00	1
21.	Fintellix	4.00	1
22.	Blue Star Limited	5.40	1
23.	Deloitte	4.12	2
24.	Reliance Jio	3.50	2
25.	TresVista	6.09	1
26.	Mirraw Online Services Pvt Ltd Phase 1	3.40	3
27.	LoyltyRewardz (Non Dream)	3.60	1
28.	LoyltyRewardz (Dream)	7.00	4
29.	Vertiv Energy Private Limited	4.50	2
30.	Research Wire	5.50	3
31.	Wolters Kluwer	8.00	1
32.	LogiQid (Non-IT Profile)	3.24	1
33.	Build Track	3.00	1
34.	Clarivate Analytics	5.84	1
35.	My Gate - Non Dream 1	3.60	2
36.	eClerx	2.21	1
37.	Code-B	2.40	1
38.	Lite Technology	2.16	1
39.	Konnect Insights	2.16	1
40.	Maharashtra Knowledge Corporation Limited	4.00	1
Total Students Placed (Till July 2019)			**119**

Internship Statistics

Year	No. of Internal internships				Total Internal	No. of External internships				Total External	Total Internships
	FY	SY	TY	LY		FY	SY	TY	LY		
2018-2019 (Jan-June 2019)	25	31	11	0	**67**	14	28	17	1	**60**	**127**
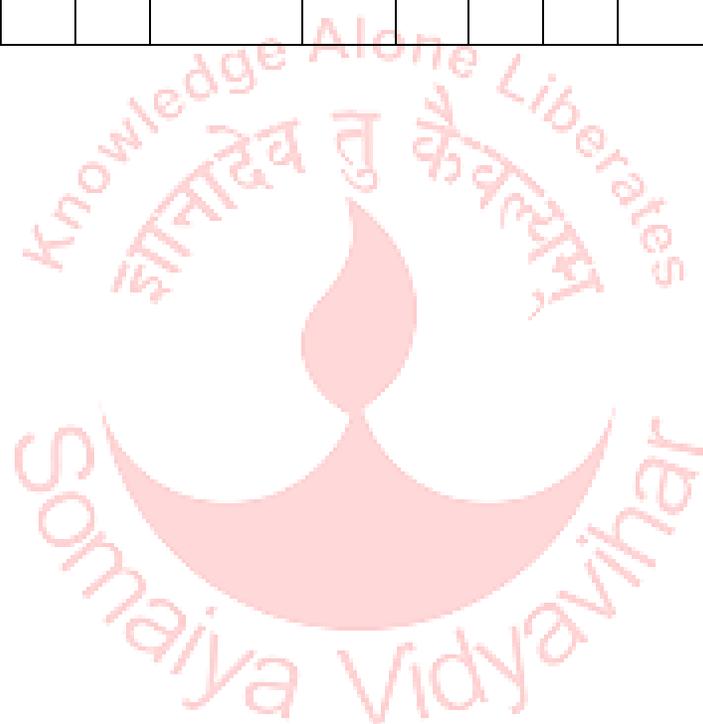
Editorial Board

Chair person
Dr. A. K. Naik

Editorial committee
Ms. A. S. Kholapure
Ms. Chetna Singh
Ms. Jayprabha Arekar