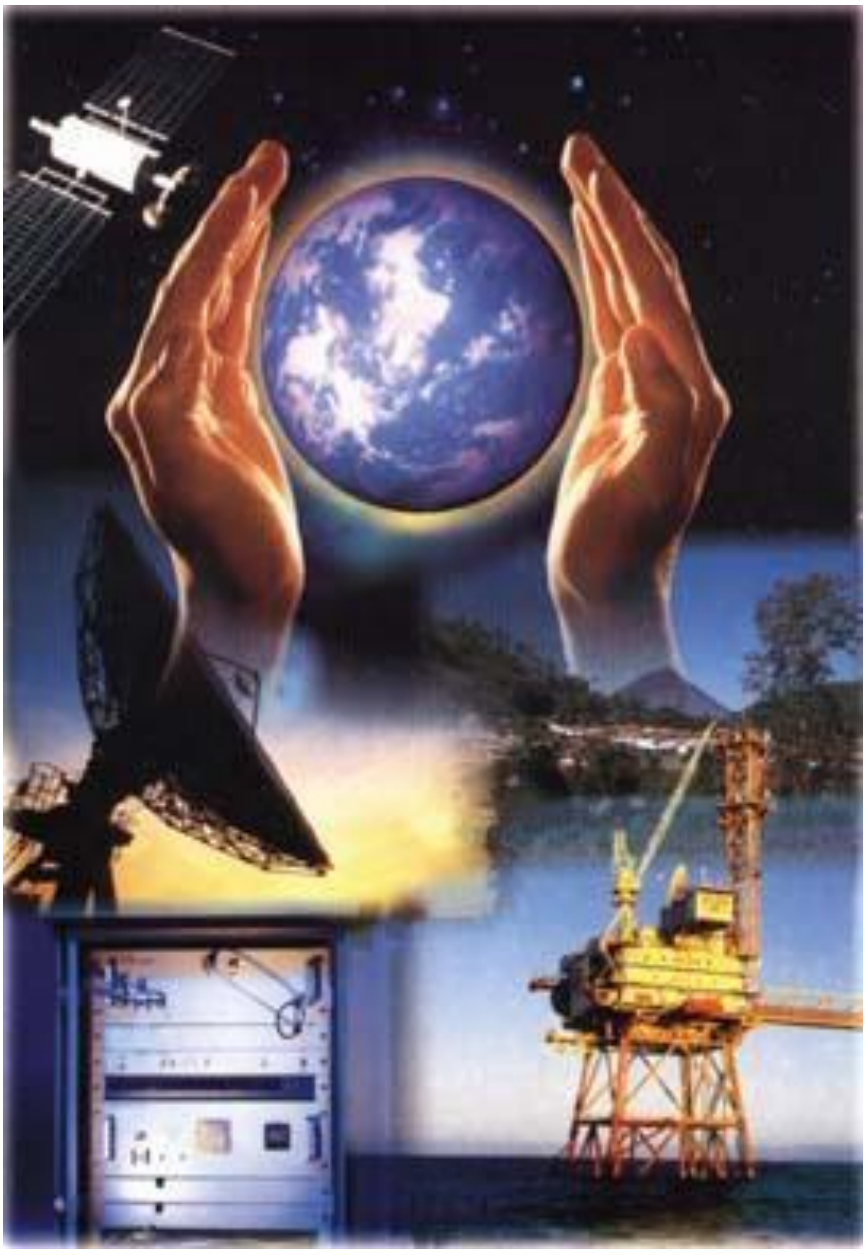
K. J. Somaiya College of Engineering

(Autonomous College Affiliated to University of Mumbai)



Department of Electronics and Telecommunication Engineering

July – December 2016

Newsletter

K J Somaiya College of Engineering

(Autonomous College Affiliated to University of Mumbai)

Department of Electronics and Telecommunications

July - December 2016

Message from the Desk of Head

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Welcome to yet another glorious academic year 2016-17. The Department of Electronics and Telecommunication has come up with another edition of newsletter. The KJSCE campus is always abuzz with a plethora of activities and has become a dynamic venue where brilliant minds from all over the world converge and share their vast reserves of knowledge and skills. It gives me immense pride to state that as a result of the collective effort of the faculty, students and staff over the past few years K.J. Somaiya today ranks among the top technical institutions of the country.

I am hopeful of its acquiring greater heights in the years to come. The institute is in process of applying to National Assessment and Accreditation Council **(NAAC)** which focuses on initiatives taken for Quality Sustenance and Quality Enhancement by Institute. With the help of all stakeholders Department of EXTC always strives for quality education to students.

As part of our vision to incorporate relevance and symbiosis in technical education, an interdisciplinary learning program, wherein KJSCE provided students from other department the opportunity to study and learn in the context of interdisciplinary and audit courses viability.

Education is what we imbibe-from our books, our peers, our teachers and our surroundings. As we move towards our goals, we must always keep in mind that we owe more to the world than it owes us. Each of us can and must do his or her bit to help build a universe that will nurture our future generation.

This issue of newsletter gives glimpses of department activities in professional, academic and extracurricular spheres. It highlights participation and achievements of faculty, supporting staff and students in various academic, professional, co-curricular and extra- curricular activities during current semester.

Prof. S.S.Kulkarni
HOD (EXTC)

Program Educational Outcomes (PEO's)

Program Educational Objectives (PEOs) as "describe what graduates are expected to attain within a few years of graduation."

Vision:

To become center of excellence for creating competent engineers with evolving technical skills, leadership qualities with human values to pursue excellence in professional field.

Mission:

Providing quality education to

- Develop technical skills, soft skills and professional ethics to cater the needs of industry.
- Promote research and creativity in Engineering and Technology.
- Inculcate awareness towards societal needs and environmental issues.

A graduate of Electronics and Telecommunication Engineering will be able to:

- **PEO1:** Excel in professional career by adapting emerging technologies.
- **PEO2:** Pursue higher education, research; address environmental issues with ethical practices.
- **PEO3:** Solve real life problems in a team as a member or as a leader.

Program Specific Outcomes for Department

- **PSO1:** Pursue higher studies in the field of Signal Processing, Networking and VLSI
- **PSO2:** Update Knowledge and Industrial Skills through Training and Internship

Congratulations

Prof. Ameya. K. Naik got approval as Ph.D guide in Electronics Engineering department at K. J. Somaiya College of Engineering, Mumbai.

Welcome

July 2016

Ms. Mrinal Phegade, Ms. Jyoti Tryambake, Ms. Darshana Shah appointed as faculty.

Best Wishes..

December 2016

Best Wishes to Prof. Vicky Chheda for his bright future.

Departmental Meeting

12th July 2016

Meeting Agenda:

- Departmental Activities
- Updates on NAAC
- IA Test Conduction on different methods

1st October, 2016

Meeting Agenda:

To finalize the proposed Final Year Syllabus (L.Y.B.Tech).

12th May, 2016

Meeting of the Subject Board of Electronics and Telecommunication Engineering Department of K J Somaiya College of Engineering (Autonomous) was held.

Members Present:

Dr. S.N.Merchant, Subject Expert
Dr. KushalTuckley, Subject Expert
Dr. Udhav Bhosle, BOS Mumbai University
Dr. Milind Shah, Subject Expert
Dr. Avinash Joshi, Professional expert
Dr. ShubhaPandit, Principal KJSCE
Dr. R.G. Karandikar, Dean Academics
Mrs. Sangeeta Kulkarni, HOD EXTC
Mrs. RohiniDeshpande, Senior Faculty
Mrs. J.M.Kundargi, Senior Faculty
Mrs. J.M.Varavadekar, Associate H.O.D. EXTC
Mrs. Samidha Kulkarni, Invitee Associate HOD ETRX

Student's Representatives: Kanchan Rawat (B.E.), Darsh Ganatra (S.Y.)

Meeting Agenda:

- Confirmation of the minutes of the previous subject board meeting and Action taken Report.
- Proposal for implementation of modified contents for semester V and VI of B-Tech program in Electronics and Telecommunication Engineering (including open elective for semester VI).
- Proposal of Implementation of Instruction and Evaluation scheme of Semester VII and VIII for B. Tech. Program in Electronics and Telecommunication Engineering.
- Proposal for Implementation of Instruction and Evaluation Scheme of Semester I–IV of M.Tech. Program in Electronics and Telecommunication Engineering.
- Proposed Program outcomes (PO) of M. Tech.
- Report on Exam Audit of Nov Dec 2015.

Departmental Activities

F.Y. B.Tech Orientation 2016 organized on 6th August 2016

The orientation was organized department wise in departmental UG seminar halls simultaneously. The main attraction of this orientation was for the first time Alumni of respective departments interacted with the students about their experiences with KJSCE. Principal, Dr. Shubha Pandit addressed the students by visiting each department venue. The detailed schedule of the orientation was as follows.

Time	Activity
10.30 am	Welcome and Prayer
10.35am -11.15 am	Address by respective HODs
11.15 am - 11.30 am	Address by Alumni
11.30am - 12 noon	General instructions by SSH department and website tour
12.00 noon - 1.00 pm	Questions answer session for students/parents
1.00 pm	Thanks giving and concluding remarks

Principal Dr. Shubha Pandit Addressing to F.Y. B. Tech Students

HOD EXTC addressing to F.Y.B.Tech Students

F.Y. B.tech Students and their Parents attending Orientation Event

Prof. Bharati Singh Addressing to F.Y. and S.Y. B. Tech EXTC Students on IETE Activities

Guest Lectures/Workshops/Seminars Organized

17th September 2016

Department of EXTC (Prof. Baishakhi Bose) organized a "Python Workshop", Spoken Tutorial IIT Bombay for T.Y. Students.

14th July 2016 to 16th July 2016

Department of EXTC (Prof. Rupali Patil) organized a "Wireless Communication and Embedded System" Workshop, for S.Y and T.Y. (all branches) Students.

Faculty Activities

3rd May 2016

Dr. R. G. Karandikar delivered lecture on "*Live with NBA*" at Sardar Patel Institute of Technology, Mumbai.

23rd July, 2016

Dr. R. G. Karandikar has been invited for Departmental advisory board meeting as a "Domain Expert" at Fr. C. Rodrigues Institute of Technology, Mumbai.

3rd August, 2016

Dr. R. G. Karandikar delivered lecture on "*NBA Process*" at P. R. Patil College of Engineering and Technology, Amravati.

19th August, 2016

Dr. R. G. Karandikar has invited for Panel Discussion on "New Course: Recipe for Successful Autonomy" at Sardar Patel Institute of Technology, Mumbai.

Guest Lectures/Workshops/Seminars attended

24th May 2016 to 17th June, 2016

Prof. Ankit Khivasara and Prof. Swati Salve attended Summer Industrial Training in "Embedded Systems & Internet of Things" conducted by Eduvance at KJSCE, Vidyavihar.

27th June, 2016 to 2nd July, 2016

Prof. Kartik Patel attended one week Short Term Training Program on "Digital Security" organized by Department of Information Technology, K.J. Somaiya College of Engineering, Vidyavihar. Purpose of this Training Program was to focus on the future aspects of security. The highlights of the course are practical exposure to forensic tools and further security aspects in digital world.

27th June, 2016 to 1st July, 2016

Prof. Baishakhi Bose attended workshop on "Mobile communication & android programming" ' at SIES, Nerul.

4th July, 2016

Prof. Ruchira Jadhav, Prof. A.S. Gawde, Prof. H.S. Doshi, Prof. V.N. Chheda, Prof. K.R. Patel, Prof. Baishakhi Bode attended workshop on "Experiential Learning" at KJSCE, Vidyavihar. The workshop was co-ordinated by Prof.S.S.Kulkarni.

19th September, 2016 to 23rd September, 2016

Prof. Shipla Vatkar attended a workshop as a coordinator on "CMOS, Mixed Signal

and Radio Frequency VLSI Design" organized by IIT Kharagpur.

23rd September, 2016

Prof. Anudeepa Kholapure attended Pre – conference workshop during 2016 second IEEE international conference on "Research in computational Intelligence and communication Networks (ICRCICN 2016)" at RCIIT, Kolkatta.

21st November, 2016 to 26th November, 2016

Prof. Anudeepa Kholapure and Prof. Savita Raut attended 5 days workshop on "Design, Testing, Performance Evaluation & Applications of Microwave Antennae 2016 ", organized by Department of EXTC VIIT Savitrabai Phule University of Pune.

15th November 2016 to 25th November 2016

Prof. Rupali Patil attended STTP on "Wavelet and Machine Learning" at KJSIEIT, Sion, Mumbai.

2nd December, 2016 to 3rd December, 2016

Prof. Amey Gawade and Prof. Ankit Khivasara atended workshop on "Security Audit" at KJSCE, Vidyavihar.

2nd December, 2016

Prof. Kiran Ajetrao attended one day ISTE STTP on "Innovations & Applications of Engineering Mathematics" at Department of applied mathematics, Vidyalankar Institute of Technology.

26th December, 2016 to 4th February 2017

Prof. D.P. Kulkarni attended two week ISTE STTP on "CMOS, Mixed Signal and RF VLSI Design" conducted by IIT Kharagpur and co-ordinated by Prof. Shilpa Vatkar.

26th December, 2016 to 4th February 2017

Prof. Shilpa Vatkar coordinated two week ISTE STTP on "CMOS, Mixed Signal and RF VLSI Design" conducted by IIT Kharagpur.

19th December 2016 to 23rd January 2017

Dr. A.K.Naik, Prof. Nitin Nagori and Prof. Baishakhi Bose attended one week ISTE STTP on "Wavelet Transform and its Applications: Hands on" at Department of Electronics Engineering, KJSCE.

Faculty Publications

23rd September 2016 to 25th September, 2016

Dr. R.G. Karandikar and Prof. Anudeepa Kholapure presented a paper on "Emerging Techniques for Printed Reconfigurable Antenna: A Review" at 2nd IEEE international conference on Research in computational Intelligence and communication Networks (ICRCICN 2016).

9th September 2016 to 10th September 2016

Prof. Vandana Satam presented a paper on "Design of Multi-band Planar Diversity Antenna for Bandwidth and Gain Enhancement", at ICACDOT-2016.

15th December, 2016 to 17th December, 2016

Prof. Bharati Singh presented a paper on "A Compact Modified Corporate Feed Network for Antenna with Non-Identical Rectangular Microstrip Antenna Elements" in the International Symposium on Antennas and Propagation (APSYM 2016), organized by the Department of Electronics, Cochin University of Science and Technology, Cochin, India.

2nd December, 2016 to 4th December, 2016

Prof. Swati Mahajan and Prof. Sangeeta Kulkarni presented a paper on "A pilot study: The effect of using Virtual laboratory on student's conceptual understanding in Mobile " Communications" at the 8th IEEE International Conference on Technology for Education, IIT Bombay.

2nd December, 2016 to 4th December, 2016

Prof. Sangeeta Kulkarni presented a paper on "A Pilot Study: Introducing HDL Lab Course for Effective Learning of Digital Design" at the 8th IEEE International Conference on Technology for Education, IIT Bombay.

Student Activities

PG Student Publications

12th June, 2016

Mahesh Golconda, Prof. Maruti Zalte presented paper "Comparative Analysis of multiplier and Multiplierless Method used to Implement FIR Filter on FPGA" at International Conference on Environmental Science and Technology, Pune.

24th July, 2016

Leena M. Sanap, Swati Chaudhari, Prof. Bharati Singh, " Building A Redundant Data Acquisition System Using IDE And PLC", published in conference proceedings of International Conference on Electrical, Electronics, Computer sciences, Mathematics, Physical Education and Management (ICEECMPE-16) ,Pune.

August, 2016

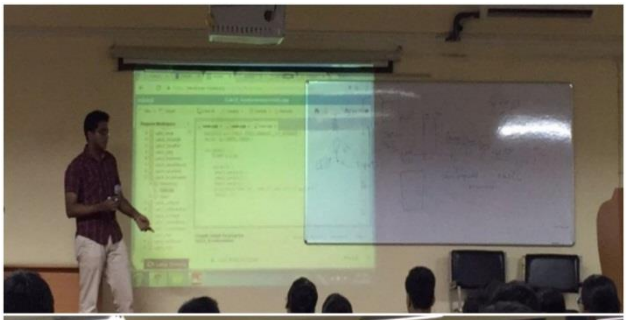
Monish M. Shah, Prof. Sangeeta Kulkarni, "Animal Recognition using Cross-Correlation", presented at International Journal for Science and Advance Research in Technology.

IETE Activities

IETE has always aimed to provide students with opportunities for all round development, to broaden their horizons and make them 'ENGINEERS' in the real sense of the term. The year started with the restructuring of the IETE council.

Orientation

- S.Y. and F.E orientations conducted on 14th July and 15th July respectively.
- The orientations were held with a view of getting the students acquainted with the council (IETE KJS-ISF) as well as the department of EXTC.
- The orientation threw light on the various activities conducted by the ISF in the previous academic year.



Technical Team explaining working of TSI Sensor and its working

Robotics workshop on FRDM KL-25Z Board

- F.E. and S.Y. Students attended workshop from 22 to 29th September 2016
- All students were ensured hands-on experience on FRDM BOARD which will help them for their mini projects as well as B.E projects.

22nd September to 29th September 2016

Robotics Workshop on FREE FRDM KL-25Z Board

The workshop was held in September 2016 over a period of 5 days. Students from F.E and S.E attended the workshop. All students were ensured hands-on experience in both FRDM BOARD which will help them for their mini projects as well as B.E projects.

Student's participation in FREE FREDM Workshop

Student's participation in Robotics Workshop

Students Achievements

Name of Event	Organized by	Name of Winner
Wreckage	Technozion' 16, NIT Warangal	T.Y. Student Siddhesh Pawar (1st Rank)
Full Throttle Grand Prix	APOGEE2016, BITs Pilani	T.Y. Student Siddhesh Pawar (1st Rank)
Burnout Robotics	Techniche 2016, IIT Guwahati	T.Y. Student Siddhesh Pawar (2nd Rank)
Powerdrift	Cognizance 2016, IIT Roorkee	T.Y. Student Siddhesh Pawar (3rd Rank)

Technical Events

Abhiyantriki'16

1st October, 2016

IETE hosted two events. They were as follows:

Circuit in the Box

- The event was consisting of three stages wherein the participants have to pass through three stages. The team of two members which completes the event faster will be declared as the winner.

  Phase 1: The stage-I was a Morse code decoding. They will get a clue through the morse code for the next stage.

  Phase 2: It consist of four coloured boxes i.e. green, yellow, blue, red which the team has to choose by the clue from first stage. The boxes consist of Arduino code which they have to debug and draw the output from it. Also they have to implement the code on the hardware.

  Phase 3: It consist of anyone fun games depending on the draw.

Technical paper presentation

- A full-fledged discussion was conducted on a selected topic through submitted reports to fish out the best new creativity and ideas. This event was conducted in collaboration with IEEE council.
- The topics for the event were: -
  - Artificial intelligence
  - Internet of things (IOT)
  - Mechatronics

Student's participation in Circuit in Box Event

Abhiyantriki had special inaugural ceremony with a sand art presentation from Sarvam Patel, India's Got Talent Season 7 participant. Also, the chief guest for the event was Mr. S. M. Vaidya, Executive Vice President at Godrej Aerospace. Abhiyantriki had brought in a varied set of events in this year's edition. Abhiyantriki 2016 introduced Hackathon and Ideate, two of the main events of Abhiyantriki 2016, both having a combined participation of 100+. Hackathon event was judged by Vishal Mehrotra and Sanket Vaidya, Techies from TCS and Ideate was judged by the director of Mobond Consultancy Pvt Ltd, also known for his m-indicator application, Mr. Sachin Teke and his colleague, Prafulla Phopale.

The highlight event of this year's Abhiyantriki was the Indian Space Research Organization's (ISRO) Exhibition. It was a part of the Vikram Sarabhai Space Exhibition. This event majorly attracted all the schools and colleges around Mumbai. This exhibition displayed exhibits of PSLV and GSLV rockets along with real camera from Mangalyaan Mission and many other exhibits which included satellites, transmitters and other parts used in ISRO missions. Periodic sessions of documentaries and interaction with ISRO

scientists took place in the auditorium. With students rushing in from all parts of Mumbai, the hustle bustle could be seen in the entire campus. The interactive session coupled with the amazing exhibition by the scientists from ISRO instilled a great sense of pride among the students. Other highlights of the festival were, Tech Expo, Internship Expo, Panel Sessions, Auto Expo and Keynote Speeches from two esteemed speakers.

In addition to all these highlight events; Abhiyantriki hosted a number of other technical events like, Circuit in the box, Robo-cross, Bridge the gap, Crackathon, Robo Sprint, Mumbai: on the roads, Crypto Pokemon, Car-O-Baar, Technical Paper Presentation and the newly introduced Tech Shield of KJSCE, an inter-departmental competition comprising of TPP, quiz and a solution debate. Such events did not only give enough exposure to students but also provided a chance for students to venture outside their own fields. Along with all these technical events, to add the fun quotient, it had events like Castle Math, VR Booth, Laser Tag, FIFA Manager, Tech Hunt, Quiz, Pic-O-Mania and Lan Gaming.

सोमय्यात अंतराळ सफर

Maharashtra Times
Page 1, 28th September 2016

'Couldn't be more proud, ISRO tech helped nation'

Mid-Day

'सोमय्या'मध्ये अंतराळ मोहीम सामुग्रीचे प्रदर्शन

Pudhari
Page 4, 4th October, 2016

Abhiyantriki Event published in Newspapers

Placement Details *(till 12th January, 2017)*

Sr. No.	Company	No. of offers (UG)	CTC (in Lacs)
1	Indus Valley Partners	1	7.25
2	Accenture	54	3.4
3	Infosys	49	3.25
4	Colgate	4	4.68
5	ATOS	5	3.1
6	E & Y	1	4.25
7	L & T infotech	5	3.18
8	Vodafone	3	4.25
9	Medianet communication	5	4
10	Reliance Industries Ltd.	7	5.5

Student's Internship 2016-17

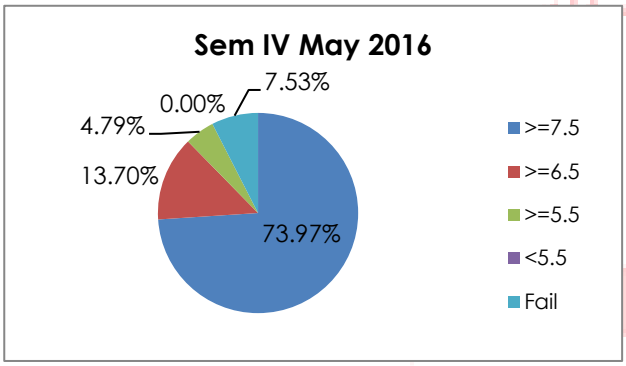
Name	Year	Industry/Institute Name	Nature of Activity	Period
Manali Chaudhri **Mrunmayee Dikey** **Rajasi Anuja** **Devanshi Mohapatra**	S.Y. S.Y. S.Y. S.Y.	K.J.S.C.E.	Data Analysis using MATLAB	4th Dec 2016 to 4th Jan 2017
Aditi Sable	S.Y.	Central Railway, Mumbai CST	Networking of Internet Conncetions	29th Nov 2016 to 2nd Jan 2017
Aditya Chatterjee	S.Y.	L&T EBDG, EAIC, Powai	Research and testing of Wi-Fi modules	5th Dec to 30th Dec 2016
Aditya Shetty	T.Y.	Javaharlal Nehru Port Trust	Gate automation system	11th Dec 2016 to 31st Dec 2016
Mansi Shah	T.Y.	Reliance Corporate Park, Navi Mumbai	Project on "Call quality of 4G"	28th Nov 2016 to 4th Jan 2017
Sapana Thakkar	T.Y.	Reliance Corporate Park, Navi Mumbai	IWF node and EPC	05th Dec 2016 to 4th Jan 2017
Arushi Agarwal	T.Y.	DRM Signals and Traffic, North eastern railway, Varansi	Technology in railway system	1st Dec 2016 to 21st Dec 2016

Result Analysis

May-June 2016

Semester IV

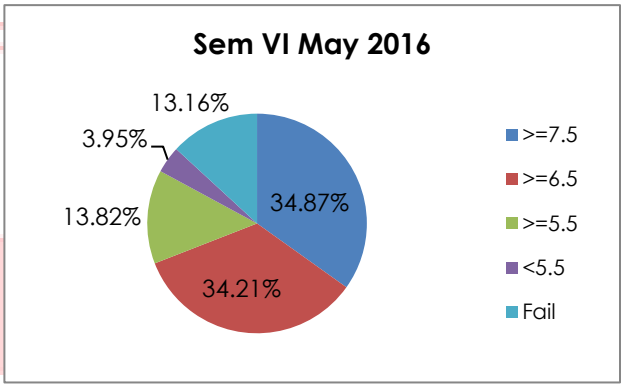
Semester IV					
GPA	>=7.5	<7.5 and >=6.5	<6.5 and >=5.5	<5.5	Fail
Number of Students	108	20	7	0	11
Total	146				



Toppers			
Sr.No.	Name	GPA	Rank
1	GANATRA DARSH DEEPAK FLAGUNI	9.96	1
2	AGARWAL ARUSHI ARUN RASHMI	9.87	2
3	CHIPLUNKAR ANUJ MILIND MAMTA	9.87	2
4	NENE SANJANA DAYANAND ADITI	9.87	2
5	AMRITH RANGARAJAN RADHA	9.83	3
6	PATANGRAO VISHAL SHASHIKANT ALKA	9.83	3
7	MADHUMITA RAMASAMY A SUMITHRA S	9.7	4
8	BAIG TASBIHA FAROOQUE VAJIDA	9.61	5
9	KHADE ANIRUDDHA ANIL ANITA	9.61	5
10	WANI ADITYA AJAY ASMITA	9.61	5
11	SHAH NIYATI JAYESH NITA	9.61	5

Semester VI

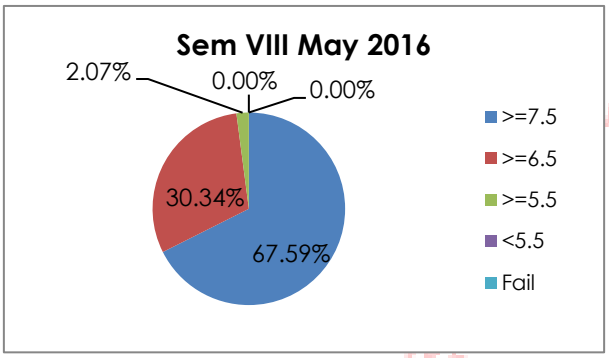
Semester VI					
GPA	>=7.5	<7.5 and >=6.5	<6.5 and >=5.5	<5.5	Fail
Number of Students	53	52	21	6	20
Total	152				



Toppers			
Sr.No.	Name	GPA	Rank
1	KOTHAVALE GANESH JAYVANT SUCHITA	9.14	1
2	SHARMA VIPIN KUMAR RAJENDRA ANITA	9.14	1
3	CHILAKAMARRI VENKATA ABHINAV C L	9	2
4	SHIRKE SHREYA SANJAY NEELAM	8.89	3
5	GAWANDE NIVEDITA MAHADEV MANISHA	8.82	4
6	VAISHNAVI DORAISWAMY RAMA	8.68	5

Semester VIII

Semester VIII					
GPA	>=7.5	<7.5 and >=6.5	<6.5 and >=5.5	<5.5	Fail
Number of Students	98	44	3	0	0
Total	145				

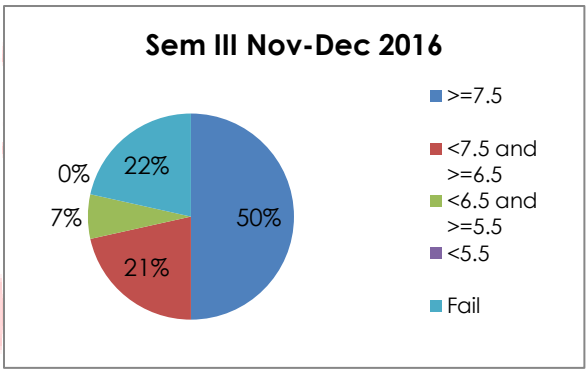


Toppers			
Sr.No.	Name	GPA	Rank
1	HOSKERI SUSHMITA RAMDAS SHEETAL	9.85	1
2	RAWAT KANCHAN PRAHLAD SINGH GANGA	9.54	2
3	ATHAVALE RITVIJ VISHNU VARSHA	9.5	3
4	BATHULAPALLI CHANDANA PRABHAKARRAO RAMANA	9.38	4
5	TALATHI YOGITA NITIN NITA	9.38	4
6	SHETTY SUPRIYA SUDHAKAR PREMA	9.38	4
7	DIGHE PRIYANKA VISHNU SHAILA	9.31	5

November-December 2016

Semester III

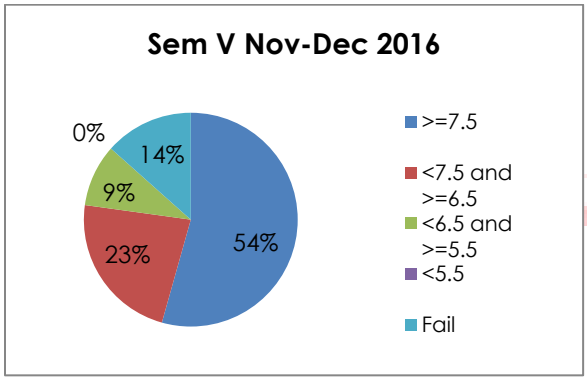
Semester III					
GPA	>=7.5	<7.5 and >=6.5	<6.5 and >=5.5	<5.5	Fail
Number of Students	79	34	11	0	34
Total	158				



Toppers			
Sr. No.	Name	GPA	Rank
1	RATHOD SORABH DHARMENDRA MEENA	9.96	1
2	YADAV DIVAKAR RADHESHYAM SARITA	9.83	2
3	KADAM MRINAL RAMAKANT SWATI	9.71	3
4	G. MANASA	9.58	4
5	PARAKKAL SHRUTI GEORGE MARY	9.54	5

Semester V

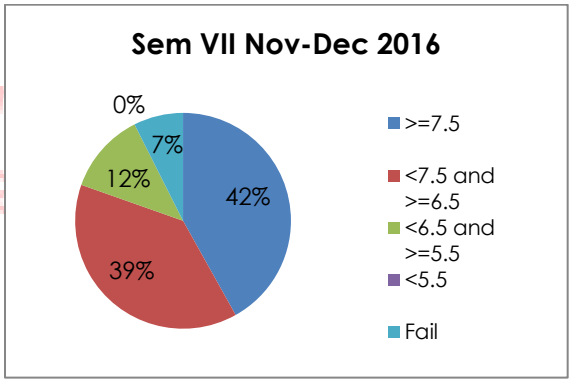
Semester III					
GPA	>=7.5	<7.5 and >=6.5	<6.5 and >=5.5	<5.5	Fail
Number of Students	81	34	14	0	20
Total	149				



Toppers			
Sr. No.	Name	GPA	Rank
1	GANATRA DARSH DEEPAK FLAGUNI	10	1
2	NENE SANJANA DAYANAND ADITI	10	1
3	MADHUMITA RAMASAMY A SUMITHRA S	9.62	2
4	PATANGRAO VISHAL SHASHIKANT ALKA	9.48	3
5	HASE KANCHAN BAJIRAO SAVITA	9.48	3
6	AGARWAL ARUSHI ARUN RASHMI	9.38	4
7	CHIPLUNKAR ANUJ MILIND MAMTA	9.38	4
8	KHADE ANIRUDDHA ANIL ANITA	9.38	4
9	SHETH RUTVI DILIP REKHA	9.38	4
10	RAJGOR RIDHI ASHOK JAYSHREE	9.33	5
11	SHAH NIYATI JAYESH NITA	9.33	5

Semester VII

Semester III					
GPA	>=7.5	<7.5 and >=6.5	<6.5 and >=5.5	<5.5	Fail
Number of Students	62	57	18	0	11
Total	148				



Toppers			
Sr.No.	Name	GPA	Rank
1	VAISHNAVI DORAISWAMY RAMA	9.04	1
2	BHANUSHALI DEEP PRAKASH PRITI	8.78	2
3	SHARMA VIPIN KUMAR RAJENDRA ANITA	8.78	2
4	CHILAKAMARRI VENKATA ABHINAV	8.78	2
5	KOTHAVALE GANESH JAYVANT SUCHITA	8.74	3
6	NIVEDHA BALASUBRAMANIAN MOHINI	8.74	3
7	DESAI APURVA UDAY ANURADHA	8.67	4
8	MADA POOJA SURENDRA PRAMODA	8.67	4
9	GAWANDE NIVEDITA MAHADEV MANISHA	8.56	5

Editorial Board

Chair Person

Prof. S. S. Kulkarni

Editorial Committee

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Mrs. R.P.Patil
Ms. Jyoti Tryambake