

Modern Education Society's College of Engineering, Pune-01

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATIONS ENGINEERING

Dr. P. B. Chopade
Head of Dept.

INTRODUCTION

- ❖ Started UG program (B. E. E&TC) in the year 1999 with intake of 60.
- ❖ The intake increased to 120 in 2011.
- ❖ PG program (signal Processing) started in 2013 with intake 24.
- ❖ The department has 18 well qualified faculty members with 6 doctorates and 9 pursuing PhD
- ❖ Industry supported and well equipped laboratories.
- ❖ Every year department sponsor the final year projects.

DEPARTMENT ACHIEVEMENTS

- ❖ NAAC Accreditation
- ❖ Research grants: Rs. 1390000.00
- ❖ Revenue generation: Rs. 364000.00
- ❖ The department organizes
 - ✓ National conference
 - ✓ International conference
 - ✓ Industrial visits (Sponsored by Department)
 - ✓ Workshops
 - ✓ Seminars/ Guest lectures
- ❖ MOUs with CDAC, Amitec Ltd., Mithbhushi, Spicer etc.
- ❖ Collaborative Laboratory in association with Amitec Ltd.
- ❖ State-of-art infrastructure and facilities in department.

FACULTY ACHIEVEMENTS

❖ Faculty Publications

Name of faculty	Publications/Patents	Reviewer	Citations
Dr. P. B.Chopade	16 (1-SCI, 3-Scopus) 1-PATENT	2(IET, SIVP)	10
Dr. M.P.Dale	50 (6-Scopus)	05 (IEEE Conferences)	91
Dr. P.P.Mane	25 (03-Scopus)		25
Dr. K.S.Tiwari	23 (03-Scopus)	02 (IEEE Conference)	28
Dr. A.J.Hake	02-PATENT		
Prof. P.N.Kota	21 (07-Scopus)	01 (IEEE Conference)	08
Prof. S.N.Dharwadkar	17 1-PATENT 1- Book chapter	-	06

FACULTY ACHIEVEMENTS

Sr. No	Name of faculty	Project Title	Funding Agency	Amount
1	Prof. S.N. Dharwadkar	Iris image acquisition on the move	BCUD UoP	280000.0 0
2	Prof. P. N. Kota	PAPR Reduction Technique in Orthogonal Frequency Division Multiplexing System	BCUD UoP	210000.0 0
3	Dr. K. S. Tiwari	Design of Rough Set Processor for Control and Automotive Applications	BCUD UoP	150000.0 0
4	Dr. M. P. Dale	Development of biometric system based on conjunctival vasculature	BCUD UoP	150000.0 0
5	Prof. R. S. Kadam	Role of active antenna in portable computing devices.	BCUD UoP	120000.0 0
Total Amount				910000.0 0

STUDENTS ACHIEVEMENTS

- ❖ Ms. Andrea Pareira: Gold medalist
- ❖ Mr. Tushar Wagh: IAS officer
- ❖ Mr. Dhiraj Gurale: IES officer
- ❖ **Achievements of Students:**

Sr. No	Name	Class	Activity	Achievements
1.	Shrikant Nikam and team	B.E E&TC	National Conference (ACCET-2017)	Best Paper Award
2.	Yogesh Rakh	T.E E&TC	National Level Youth Festival for the activity Clay Model.	Won the first prize
3.	Benjamin and group	T.E E&TC	Roborace and Pick N Place competition	Won the first prize
4.	Group of students	T.E & B.E E&TC	National robotics competition ROBOCON at MAE Alandi, Pune	Secured All India Rank 24
5	Shashank Chaudhari and Team	B.E E&TC	Project competition organized by Mitsubishi Electric Ltd	Selected as final team

VISION & MISSION

❖ **Vision of Institute**

To Groom - Motivated, Environment friendly, Self esteemed, Creative and Oriented Engineers.

❖ **Mission of Institute**

To Develop Industry Oriented Manpower to accept the challenges of Globalization by,

- ✓ Promoting Value Education through motivated trained faculty,
- ✓ Maintaining conducive environment for education at affordable cost,
- ✓ Promoting Industry Institute interaction,
- ✓ Involving alumni.

VISION & MISSION (CONTD...)

❖ Vision of E&TC Department

To Groom - Motivated, Environment friendly, Self-esteemed, Creative and Oriented Electronics and Telecommunication Engineers

❖ Mission of E&TC Department

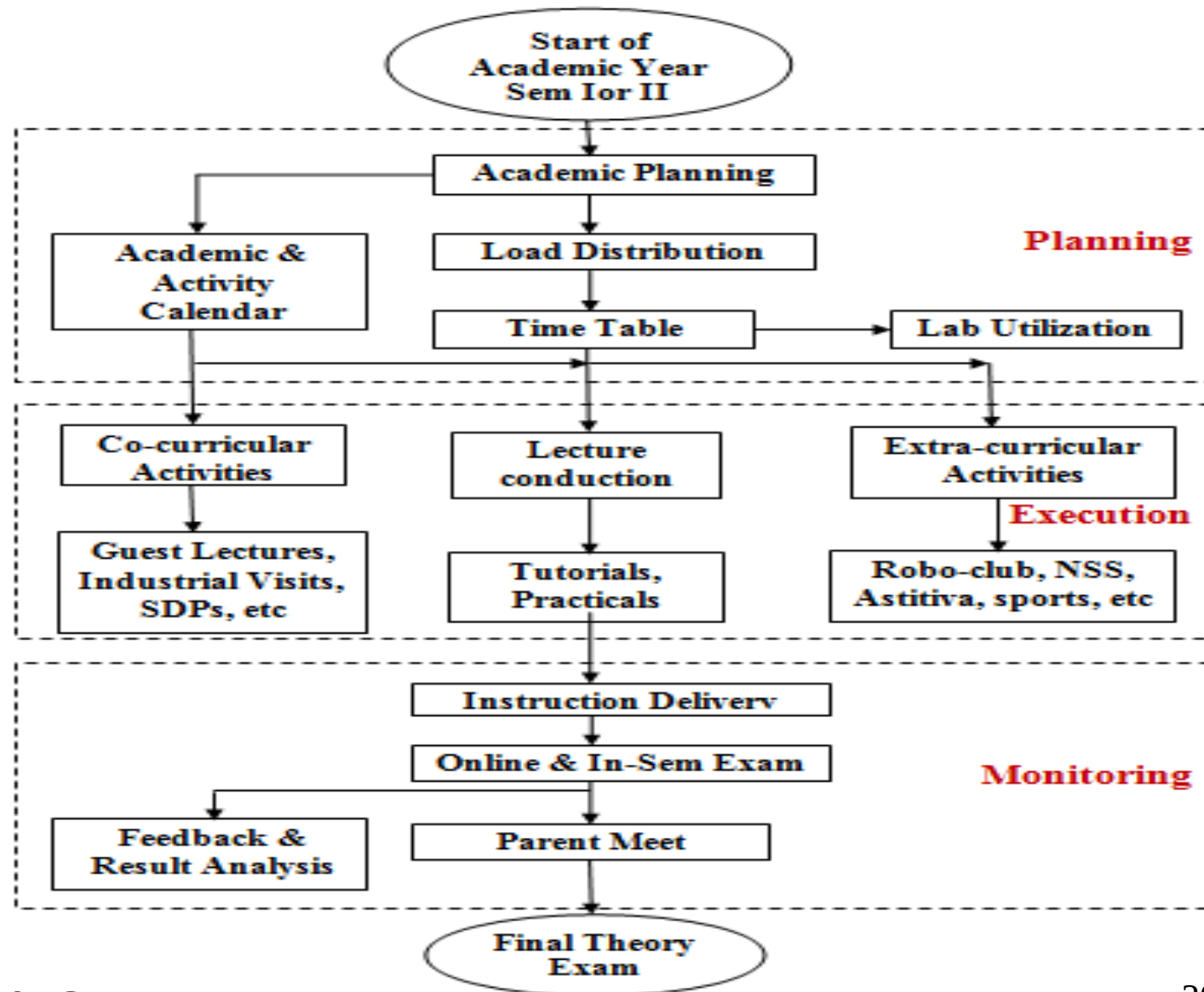
To Develop Industry Oriented Manpower to accept the challenges of Globalization by,

- ✓ **M1:** Imparting Electronics and Telecommunication knowledge through trained Faculty in a conducive environment,
- ✓ **M2:** Creating awareness about the needs of Electronics and Telecommunication Industries through alumni and Industry-Institute interaction,
- ✓ **M3:** Encouraging students to think innovatively and introduce them to various Research activities,
- ✓ **M4:** Grooming students in communication and interpersonal skills.

PROGRAM EDUCATIONAL OBJECTIVES

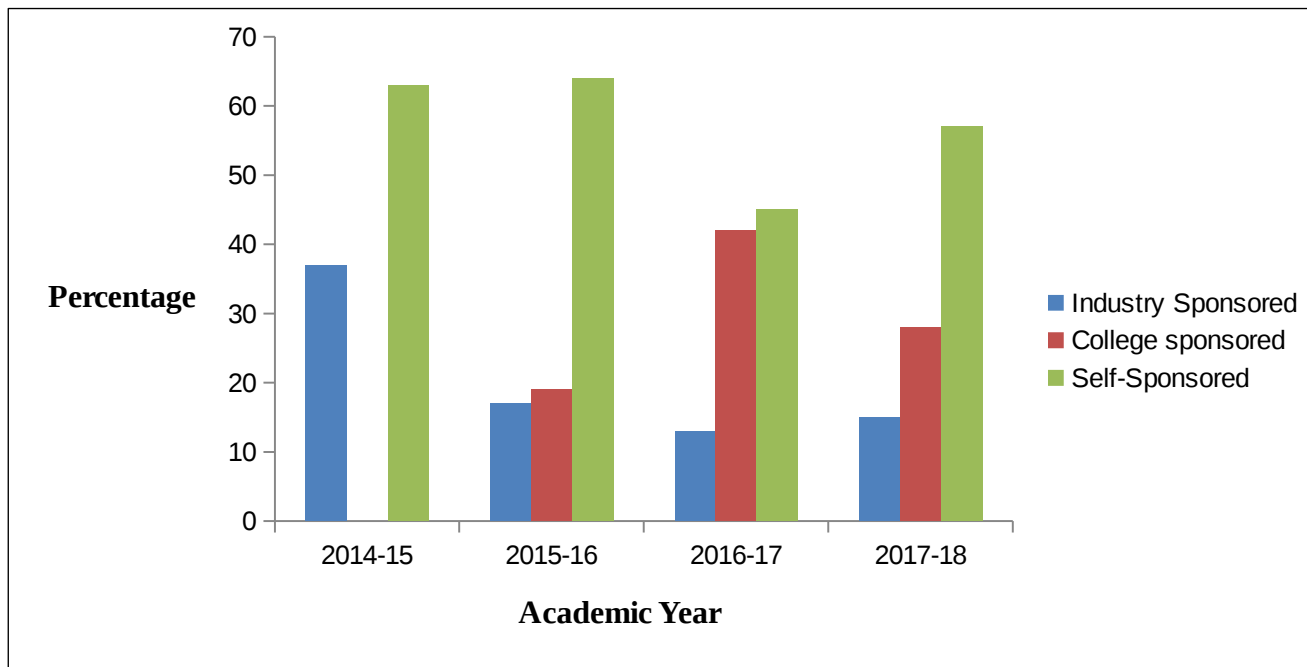
- ❖ **PEO1:** To prepare students with strong foundation in mathematical, scientific and engineering fundamentals to excel in their career.
- ❖ **PEO2:** To prepare students for technological changes through domain knowledge and extend their skills across the range of disciplines.
- ❖ **PEO3:** To prepare students for continuous professional and social development through soft skills and self-learning abilities.

TEACHING LEARNING PROCESS

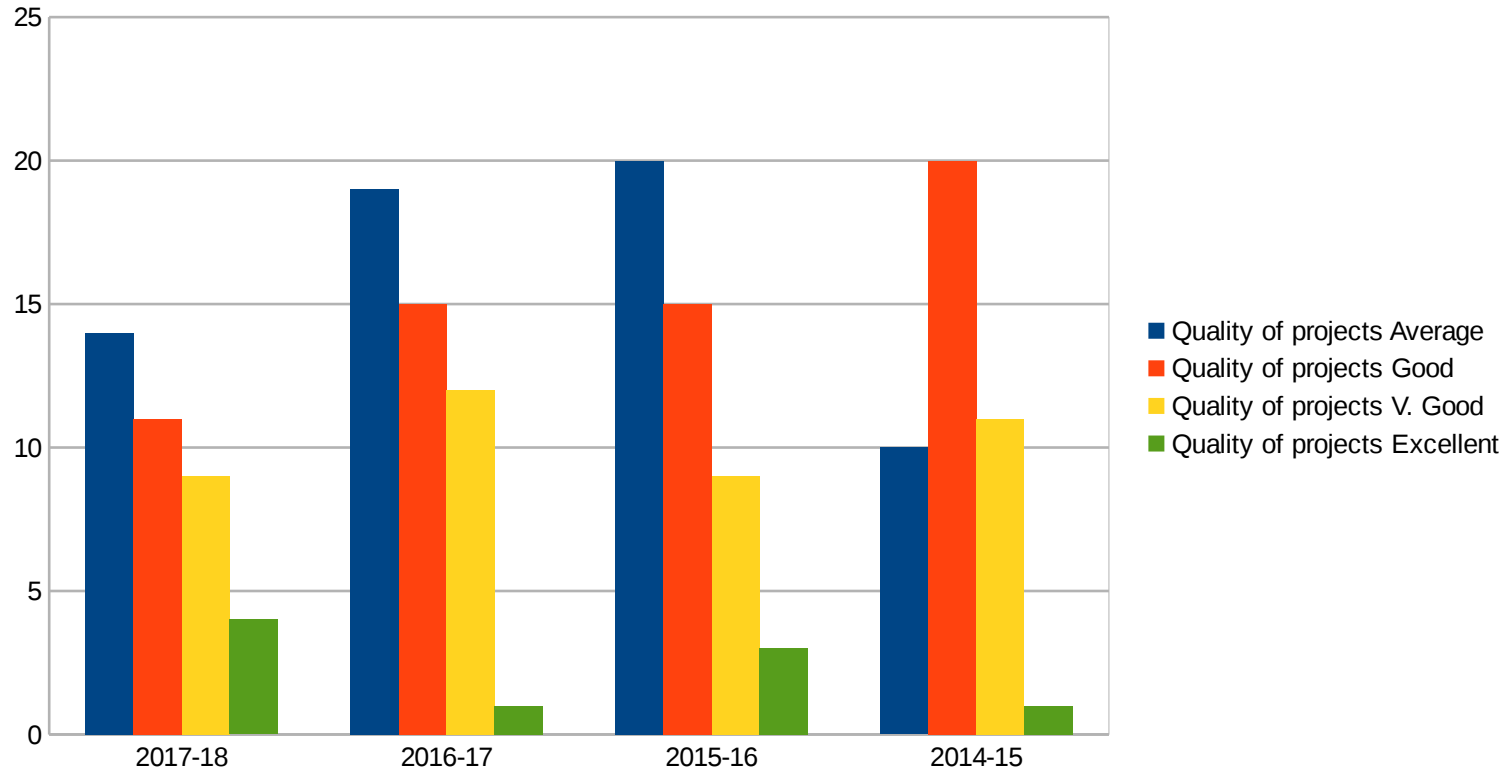


STUDENTS PROJECTS

- ❖ Students projects are broadly categorized as
 - ✓ Industry sponsored projects
 - ✓ Institute sponsored projects
 - ✓ Self-sponsored projects



QUALITY OF STUDENTS PROJECTS



INDUSTRY INSTITUTE INTERACTION

- To strengthen the interaction with Industry, department organizes
 - Guest lectures
 - Industrial visit
 - Student development program
 - Faculty development program
 - Alumni meet
 - Permission to Industrial internship / summer training
- Industry Supported Laboratories

Sr. No	Name of Lab	Facilities available
1	Software Defined Radio	Hardware + Software
2	NI Lab	Hardware + Software
3	R&D Lab	Advanced instruments

INDUSTRY INSTITUTE INTERACTION(CONTND...)

Department interact with industry by signing MoUs.

Sr. No	Type of industry	Type of Laboratory
1	National Instruments	NI Laboratory
2	Mitsubishi Electric India Ltd.	Mechatronics Laboratory
3	Amitech electronics India Pvt. Ltd.	SDR Laboratory
4	Sphier Unified Solutions Pvt. Ltd, Pune	Embedded Laboratory
5	Pro-active IT services Pvt.Ltd.	SDR Laboratory
6	C-DAC	VLSI and Signal Processing Laboratory
7	Graceful Growth	Seminar Hall
8	Edgate Technologies & Texas Instruments	Advanced Equipment Laboratory
9	Pearson for Authorized Centre Credit Agreement	Pearson Examination Center
10	Trident TechlabsPvt. Ltd.	Texas Instruments Strellaries Lab
11	R.S. Network	Computer Network Laboratory

PROGRAM SPECIFIC OUTCOMES

- ❖ **PSO1-** Apply concepts and knowledge of mathematics, basic electronics engineering to various areas like Signal processing, Embedded Systems, VLSI, Communication engineering etc.
- ❖ **PSO2-** Design and analyze Electronic Engineering problem with given specification.
- ❖ **PSO3-** Implement Electronic and Communication system using appropriate hardware and software tools, keeping in mind it's societal and environmental effect.

DETAILS OF PLACEMENTS AND HIGHER STUDIES

Item	2016-2017	2015-2016	2014-2015
Total No of Final Year Students	116.00	116.00	115.00
No of students placed in the companies or government sector	43.00	55.00	44.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.)	8.00	3.00	10.00
Total (In percentage)	43.96%	50%	47%

PROFESSIONAL ACTIVITIES

- ❖ The professional societies and chapters active like IETE and ISTE.
- ❖ Department Level students organizations/associations:

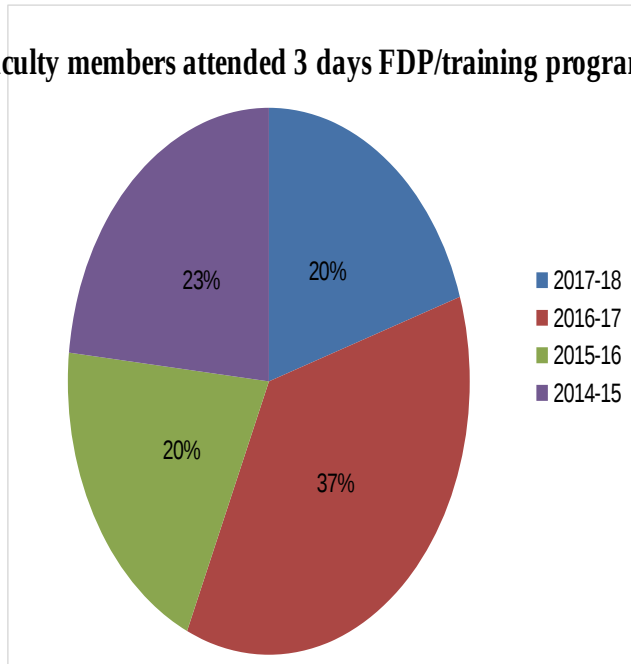
Name of students association/ organization	No. of activities per year		PO Mapped		
	2017-18	2016-17	2015-16	2014-15	
ETSA (Electronics & Tele-communication students associations)	13	09	08	08	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12
Astitva	03	02	06	04	PO6, PO7, PO9, PO10, PO12
Roboclub	04	04	04	04	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO11, PO12

INNOVATIONS BY THE FACULTY IN TEACHING AND LEARNING

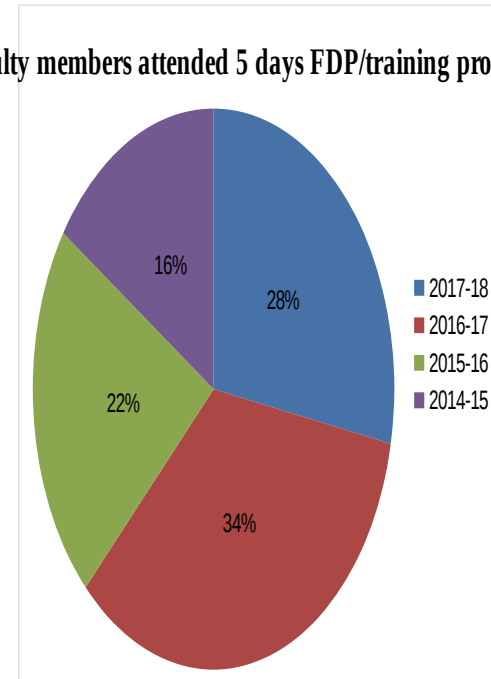
- ❖ **Work made available on website**
- ❖ **Work made available for peer review and critique**
- ❖ **Work made reproducible and developed further by other scholars**
- ❖ **Use of Information and Communication Technology**
 - ✓ Multimedia teaching aids
 - ✓ Computer - Based Teaching (CBT)
 - ✓ Virtual learning Environment (VLE)
- ❖ ***Instruction Delivery and Methods***
 - ✓ Problem based learning
 - ✓ Project-Based Learning
 - ✓ Participative Learning

FACULTY AS PARTICIPANTS IN FACULTY DEVELOPMENT/TRAINING ACTIVITIES/STTP'S

No. of faculty members attended 3 days FDP/training program/STTP's



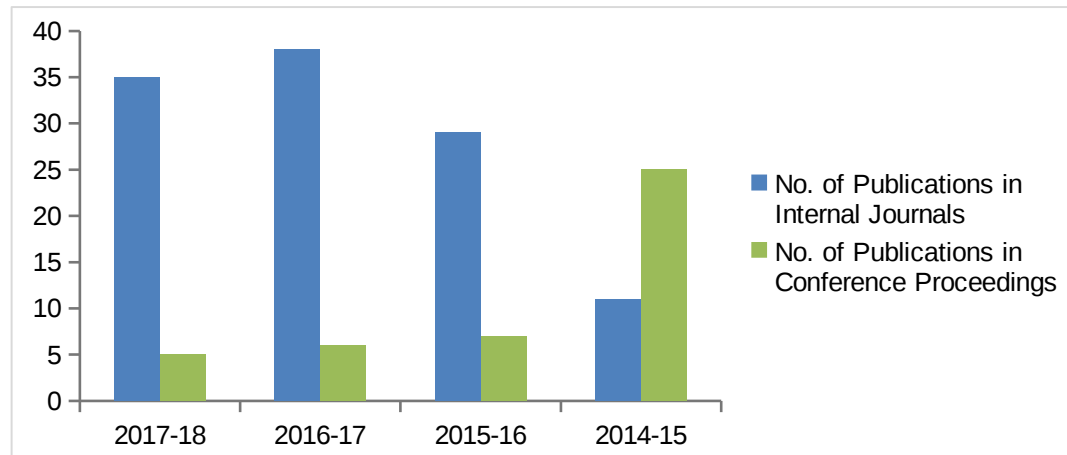
No. of faculty members attended 5 days FDP/training program/STTP's



RESEARCH AND DEVELOPMENT

❖ Academic Research

- ✓ Overall 124 research papers were published in last four years



❖ Development Activities

- Product Development
 - ✓ Four patents are published
- Research laboratories
 - ✓ Research and Development Laboratory
 - ✓ Center of excellence

CONTINUOUS IMPROVEMENT

- ❖ Department has following processes to achieve continuous improvement in teaching learning process and placements
 - ✓ Semester wise student feedback
 - ✓ Well established policies for appraisal and promotion of staff
 - ✓ Mechanism for the academic monitoring
 - ✓ Funding for innovative BE projects
 - ✓ Sponsorship and duty leaves to faculty to attend various programmes
 - ✓ Soft skill training for students
 - ✓ Academic Audit
 - ✓ Year wise PO attainment calculations and action plan

IMPROVEMENT IN PLACEMENT & HIGHER STUDIES

- ❖ Companies came for placement in various academic years listed below
 - ✓ HSBC, TCS, L&T InfoTech, Tata Communication, Persistent, TCL, Amazon, S M Tech, Tech Mahindra, Capgemini, NTT Data etc.

Percentage Student Placed	Max Pay- Package per annum (In Lakhs Rs.)	No. of students for Higher Studies	Total	
Year	Total Placed			
2016-17	37%	3.26	8	43.96%
2015-16	47.41%	3.5	3	45.68%
2014-15	38.26%	3.3	10	46.95%

CONCLUSION

- ❖ Well qualified and trained faculty members
- ❖ Participation of the students in co-curricular and extra-curricular activities
- ❖ Department is continuously taking efforts to improvement the attainment of PO and PSO
- ❖ State of art infrastructure and facilities
- ❖ Good number of publications & patents

Thank You