

## *Our Patron*

Hon. Ravindraji M. Mange

### **OUR SINCERE GRATITUDE** **TO**

**Principal- Dr. S. V. Patil**

Editor-in-chief- Prof. M. M. Rahate.

Editor- Prof. R. K. Atyali

Co-Editor- Prof. P. D. Salunkhe.

### **VISION**

To impart quality education.

### **MISSION**

- To excel in imparting extensive knowledge in Electronics Engineering prescribed by MSBTE Diploma curriculum
- To prepare the students with knowledge and necessary technical skills required for higher education, Job and to be successful entrepreneurs
- To develop ethical values among the students to create respect for society and environment
- To provide students a strong theoretical foundation, practical engineering skills, experience in interpersonal communication and teamwork, and a daily emphasis on ethics, professional conduct and critical thinking.

# 2016-17

## NEWS LETTER



**Department of Electronics  
and telecommunication in  
association with ASENT**

**Vol 1 Issue 2**

**Feb 28, 2017**

## CHAIRMAN'S ADDRESS



Hon. Ravindra Mane

It is a matter of great pleasure and satisfaction that RMP has come up with the first issue of the Departmental Newsletter.

I believe that the newsletter will serve as a window through which the complete profile of the academic and co-curricular activities, achievements and progress made during the stipulated period can be viewed.

We at RMP are committed to creating an ambience for nurturing innovation, creativity and excellence in our students. We aim to prepare the young engineers and managers to confidently and competently face the challenges of intensifying competition by imparting high quality technical and managerial education coupled with appropriate training and wide exposure to the state-of-art practices. Our educational programmes lay emphasis on all round personality development and also in inculcating human values and professional ethics which help our students become more human and socially responsible to lead a meaningful life.

Best wishes for the success and bright future in all their endeavours.

## PRINCIPAL'S ADDRESS



Prof. N.B Bhopale

I am very happy to note that the Department of Electronics and Telecommunication Engineering of Rajendra mane Polytechnic (Ambav-Devrukh) is releasing its first Newsletter enumerating the various activities and achievements of their faculty and students.

Electronics and telecommunication engineering is a field that involves complex electronics apparatus, circuits and equipment's that help in executing the speedy and efficient telecommunication systems. The students and faculties of department are always proactive in taking initiatives in technical, cultural and social events. I hope that this newsletter will serve the purpose of reflecting all activities of department and it will inspire others to do their best.

I congratulate all the students who have put their efforts in bringing this first newsletter issue and also appreciate HOD and all faculty members for motivating their students towards this fulfilment. I wish each one of them in the Department success in all their endeavours

**From the HOD's Desk:**

Prof. M. M. Rahate

“It is hard to imagine the world without **ENGINEERING** and it is **impossible** to imagine the world of engineering without **ELECTRONICS**”

**G**reetings as a head! Let me begin by thanking you for your support in so many ways – organizing workshops, events, meaningful visits. And indication of the sentiments you have for the department. It's our pleasure to publish first departmental newsletter. Here we are seeing expansion on all fronts – students – faculty coordination and all possible efforts to reach department at higher position. Your inputs are always valued.

From 19<sup>th</sup> century world started to walk on wheels supported by mechanical engineers and to walk on wheels the civil engineers. But still there was a space acting as barrier in the development. The world needed to come closer for their economic growth and to be closer and more communicative all countries had to destroy the imaginary boundaries to communicate and trading beyond lines. This task is done by electronics, a corner of engineering.

At the end of 20<sup>th</sup> century the whole world started to communicate, trade more easily and in more convenient way. This electronics era resulted in superior growth in world economy as well as Indian economy.

So join your hands with electronics and be a part of growing industry and get satisfaction by helping human beings improving their standard of living and offering them a comfort life.

**Editor's Point of view-**

Prof. R. K. Atyali

Dear students,

**W**elcome to the second issue of our departmental newsletter for academic year 2016-17. This newsletter is a platform for students and faculties to exhibit their work and sharing of knowledge. I would like to thank all the faculties of extc

Department to encourage me and my team. Ms. Rahate M.M. encouraged collaboration amongst the students of extc and encourages us to better what has been previously achieved.

**DEPARTMENT**

**W**e as an electronics engineer try to comfort the life and feel proud to possess reason of satisfaction of human being. We have labs with well-equipped and actual experimental set-up, models and charts for the students to have hands on experience apart from theoretical knowledge. In order to provide required skill to industry, department organizes field visits so that students will aware of industry and professionalism. The department regularly conducts certificate short term workshops and technical, non-technical events to become student multidimensional. Department have well Qualified, Sincere and Dedicated Teaching & Non-Teaching faculty members. Faculties are trying to upgrade their knowledge and skills by attending various Workshops & Seminars. And the efforts of departmental faculties and institute outcomes, students from the department are placed in reputed industries such as BAJAJ, FLASH ELECTRONICS etc.

## FACULTY MEMBERS

# ASENT

### TEACHING STAFF

Prof. M. M. RAHATE  
(I/C HOD M.E.Pursuing)  
Experience.....5.5Years

Prof. A. V. RAJWADE  
(B.E. E&TC)Experience.....3.5 Years

Prof. S. S. RASAL (B.E. E&TC)  
Experience.....3.5 Years

Prof. M. Y. MACHIVALE  
(B.E. Electrical)Experience.....3.5Years

Prof. P. D. SALUNKHE  
(B.E. Electronics)Experience.....4.5Years

Prof. R. K. ATYALI  
(M.E. perusing)Experience.....4 Years

### NON TEACHING STAFF

Mr. R. Y. BHOKARE  
(Diploma in Electronics).....Lab Asst.

Mr. A. A. GOPAL  
(ITI-Electrician).....Lab Asst.

### PRESIDENT

MR. WALIMBE PRAJWAL

### VICE-PRESIDENT

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MISS. PARHATE RACHANA

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MR. SAWANT ROHIT

MR. TARI VIRAJ

MISS. MANGALE AKSHARA

## Faculty forum and article



Indian space agency ISRO has successfully launched a record of 104 satellites in space on Feb 15. The agency's PSLV-C37 has successfully achieved this in a single mission and has launched the satellites into polar sun synchronous orbit.

Satellites for this mission include India's earth observation satellite Cartosat-2 series, two other satellites, and 101 foreign nano satellites from

the U.S., Israel, UAE, Netherlands, Kazakhstan and Switzerland.

Satellites for this mission include India's earth observation satellite Cartosat-2 series, two other satellites, and 101 foreign nano satellites from the U.S., Israel, UAE, Netherlands, Kazakhstan and Switzerland. What is significant about the launch is the number of satellites carried by a rocket. Compared to successful launch by the Russian Space Agency launching 37 satellites in one go, India became the first country to script history by launching 104 satellites in a single rocket.

It then took less than 10 minutes for the rocket to spew out 101 passengers. With great pride we can say that, "ISRO can also hit centuries like our cricketers. Mission launch involved complex issues in management and manoeuvring, Last year we saw nine successful launches. This year began with a remarkable event. Images from the satellite will be used for cartographic applications, urban and rural applications, coastal land use and regulation, utility management like road network monitoring, water distribution, creation of land use maps, change detection to bring out geographical and manmade features and various other land information system (LIS) and geographical information system (GIS) applications.

INS-1A and INS-1B are versatile and modular Nano satellite bus system envisioned for future science and experimental payload

## Student Article



"Indian Regional Navigation Spacecraft System (IRNSS) is the Indian navigation system that envisages the establishment of the regional navigation system using a combination of geostationary orbit (GEO) and geosynchronous orbit (GSO) spacecraft," reads Indian Space Research Organisation (ISRO) website on self-reliance with an indigenous navigation system. What does this mean for the common man?

We open Google Maps application on our phones and for a place. The signal travels all around the world, to the GPS control station in the USA. Processing takes place at their end and, after some deliberation on their part, we receive certain co-ordinates. This takes place sometime.

Also, according to conspiracy theorists, security agencies get to know if you access anything disconcerting with IRNSS, the time to access is exported to be much lesser and the said theorists can feel a bit safer, as this information will now be processed by Indian agencies.

### Project timeline

"It was back in 2003 that the project was beginning to take form," recalls Dr Vyasraj G., senior manager - GNSS and aerospace electronics, accord Software. "The main focus behind developing an indigenous system was to remove dependence on the American GPS system. After announcement of the project we were to design simulators that could simulate the perfect environments for testing the satellites, and this began the race for

development of IRNSS receiver modules.

"After finalization of the systems, we had receiver modules being developed to test signal characteristics before the first satellite was in place. By the end of 2012, before the satellites were launched," adds Dr. Vyasraj.

By 2008, project details were finalized and the expected date for the system to go live was set to end of 2015, with the first satellite being launched in 2011, and the next every six months. After a delay in the original timeline, the first satellite, IRNSS-1A, was launched on July 1, 2013, and the others followed suit. The last satellite, IRNSS-1G, was successfully launched on April 28, 2016, from Satish Dhawan Space Centre (SDSC), SHAR, Sriharikota launch site.

#### Testing and development

Before completion and launch of satellites, there is the need for testing the design parameters and the functioning modules. Design simulators have helped play a huge role in this stage of the development. "We have a simulator from Accord Software capable of generating and measuring signal conditions upon reception. The device hardware is compatible with American GPS, Russian GLONASS, Indian IRNSS, European Galileo and Chinese BeiDou/BDS.

"The simulator also has support for SBAS systems. We can modulate and test signal parameters during stages of transmission. The simulator generates signal distortions similar to the actual conditions and give results, which can help fine-tune GNSS equipment," says Dr. Pratibha B.A., project leader at Accord software.

For field-testing purpose, there is a portable

version of the device, which has an RJ45 interface for connecting to a computer system. The device can be controlled by a computer application loaded with custom firmware. The portable simulator has the same features as the other device with the added benefit of a compact design. Along with simulators, development of an IRNSS compatible receiver is also underway. G3I, a credit-card-sized receiver chip, which support for IRNSS along with other constellations, is currently under development.

**Mr. Rohan Shinde**  
**SY EXTC**

### Field Experience



**Industrial visit to AIR Ratnagiri**



**A visit to NPCIL, Ratnagiri**



An environmental visit to study aquatic ecosystem at Bhatye beach



A visit to BSNL, Ratnagiri

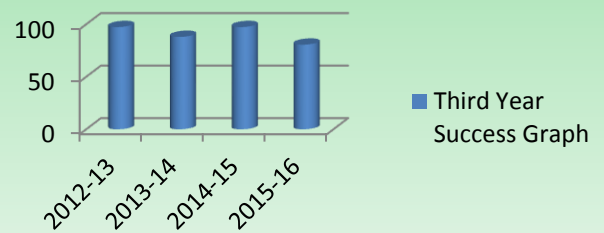


A visit to Gadre Marin Pvt Ltd, Ratnagiri



## Academics

### Third Year Success Graph



A visit to Kokan Railway, Ratnagiri

**Academic Year 2016-17(winter 16)****THIRD YEAR TOPPERS**

Rank	Name	Percentage
1	Parhate Rachana N.	84.56%
2	Oak Nutan S.	83.78%
3	Sansare Sangram S.	78.67%

**SECOND YEAR TOPPERS**

Rank	Name	Percentage
1	Garate Pankaj R.	70.75%
2	Killekar Gaurav M.	69.13%
3	PawarAditya D.	65.38%

**FIRST YEAR TOPPERS**

Rank	Name	Percentage
1	Vele Trupti Devji	83.54%
2	Chilwan Bilal Imtiyaz	70.92%
3	Mustakeem Rafique G.	66.15%

**Beyond the Academics****Pioneer 2K17 prize distribution (Winner)****Pioneer 2K17 prize distribution (2<sup>nd</sup> Runner up)****SPORTS****MSBTE ZONAL Cricket Runner-up Team****Research Papers Publication/Conference by Faculty**

Name of Staff	Title of Research Paper	Venue
Prof. M. M. Rahate	Detection of cancer using Image fusion	RM CET, Ambav
Prof. R.K. Atyali	An enhancement in detection of brain cancer	IEEE, ICAECCT, Pune
Prof. R.K. Atyali	Utility privacy tradeoff in Database	Lidhiyana, Punjab



**Only TONIC for life is an****PLACEMENT RECORD OF ACADEMIC  
YEAR 2013-14****ELECTRONIC****PLACEMENT RECORD ACADEMIC YEAR 15-16**

Sr No	NAME OF THE STUDENT	NAME OF COMPANY
1	TANVEER PARKAR	FLASH ELECTRONICS PUNE
2	SURAJ PARKAR	FLASH ELECTRONICS PUNE
3	ANIKET WAIKAR	FLASH ELECTRONICS PUNE
4	MAHESH GODE	FLASH ELECTRONICS PUNE
5	MAYUR SAWANT	FLASH ELECTRONICS PUNE
6	AKHILESH GURAV	FLASH ELECTRONICS PUNE
7	PRADNYA SHINDE	IMPACT INFOTECH PUNE
8	NIKHIL DALI	FUKOKU PVT LTD PUNE
9	NIKHIL DALI	L&T PUNE

Sr.No	Name of the student	Name of Industry	Department
1	Yogesh Lingayat	SEA CAREER MARITIME	EXTC
2	Mr.BangdeAkash	SEA CAREER MARITIME	EXTC
3	Mr.KetanAdamkar	SEA CAREER MARITIME	EXTC
4	Mr.PrathmeshDesai	SEA CAREER MARITIME	EXTC
5	Mr.KhemrajNaik	SEA CAREER MARITIME	EXTC

*We make world  
smaller, lighter,  
closer*

*And because of us  
world becomes  
Smarter!!*