Rajendra Mane Polytechnic, Ambav

Computer Engineering

(Excellent Remark from MSBTE External Academic Monitoring Committee)

Chairman's Message

Hon.Ravindraji Mane
Chairman of PSPS

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 programmers 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 endeavors.

Principal's Message

Dr.S.V.Patil
(Principal)

I am very happy to note that the Department of computer Engineering of Rajendra mane Polytechnic (Ambav- Devrukh) is releasing its first Newsletter enumerating the various activities and achievements of their faculty and students. Computer Science will provide the knowledge and skills required to help revolutionize the world in which we live and work. Computer Engineering covers the computer science theory, algorithms, implementation and systems principles of computer languages and computer networks .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 fulfillment. I wish each one of them in the Department success in all their endeavors.

From Editor's Desk

It gives us a tremendous pleasure in bringing out first copy of our departmental newsletter under the leadership of our Principal Dr. S. V. Patil. This newsletter is the representation of immense hard work, devotion and contribution made by, H.O.D. Mr. A. A. Yadav, Mr. A.N. Shetye (ASCE Coordinator) all teaching and non-teaching staff members and all the students from computer engineering department in the year of 2015-16.

About Department

Vision

Vision of the Computer Engineering department is "to impart quality education".

Mission

1. To provide high quality technical education prescribed by MSBTE diploma curriculum.
2. To provide technical skills, industry oriented training program and soft skills for students to prepare them to be successful in higher education, employment and business to asset to the nation.
3. To impart learning by educating students with social awareness, conceptual knowledge and hands on practices using modern tools and technologies.
4. To organize co-curricular activities for students to employability enhancements.

About labs

- There are total 160 computers with license copies of Microsoft Windows 7 & 8 are available in total 5 labs of computer department.
- 30 MBPS internet facility is provided to the students through Leased Line
- Various soft wares are there such as : **Oracle 11g**, **Visual Basic 6.0**, **Tasm**, **Masm**, **Adobe Photoshop**, **Windows Server, Linux, Microsoft Office 2010** .

Lab 1 Networking Lab   Lab2 Programming Lab1   Lab3: Programming Lab 2   Lab4: Programming Lab3   Lab5: Graphics Lab

Academic Results

Academic Year	Result
2015-16	100 %
2014-15	94.44 %
2013-14	82.61 %

EAMC Remark

Academic Year	Remark
2015-16	Excellent
2014-15	Very Good
2013-14	Very Good

Teaching Staff Members

Prof. Yadav A.A
H.O.D
Experience: 07 years
M.E.Appeared
(Computer
Engineering)

Prof.Kamble D.K
Lecturer
Experience: 07 years
M.E.Appeared
(Computer
Engineering)

Prof.Shetye A.N.
Lecturer
Experience:05 years
M.E.Appeared
(Computer
Engineering)

Prof.Chavan N.N.
Lecturer
Experience:04
years
M.E. Appeared
(Computer
Engineering)

Prof.Vankar M.D.
Lecturer
Experience:02
years
M.E Appeared
(Computer
Engineering)

Prof. Jadhav S.R
Lecturer
Experience:02
years
B.E.
(Computer
Engineering)

Non-Teaching Staff Members

Ms. Nalawade P. P.
Lab Asst.
Experience: 02 years
BSC Computer Science

Association (ASCE)

Designation in ASCE	Name of Student	
President	Fatima Nevrekar	
Vice- President	Rohan Karekar	
Treasurer	Omkar Sawant	
Members	Nupura Deshpande	Shubham Sawant
	Akshay Alkunte	Shivani Gawas
	Sonali Shinde	Shraddha Sawant
	Shreyas Malvade	Sourav Chogale
	Rushikesh Kadam	Ameena Thakur
	Rushikesh Kadam	Anju Durgi
	Sheetal Patil	Hemant Avsare
	Pratik Avsare	Amey Mulye

Various Activities organized by
Association of Students of Computer Engineering (ASCE)

- **Photographica:**

As Rajendra Mane Polytechnic has been gifted by lush greenish campus, beautiful ganesh temple, so in every year we have organized Photographica Event on 25th July 2016. This event is for all the Students of our college. In this year more than 100 students had participated in this event. From this event every participant got a platform to show photographic ideas. They pass through depth details of skills required for photographer.

Front view of R.M.P   View of R.M.P. from little bubble   Flag on ganesh temple

- **Poster Competition:**

On the eve of Engineering Day 15th September, every year we organized a poster competition. Main aim of this event is to provide opportunity for the student of computer engineering to express their thoughts, understanding through their posters. In this event participants can express their thoughts through various hierarchies/diagrams. The efforts they put in this event is useful for them in their academics. All the students of S.Y. and T.Y were participated in Poster Competition.

- **PIONEER (Technical Paper Presentation):**

Nowadays, it is very important that how you express your knowledge in front of many people, so that audience will get convinced with the thoughts which has been shared by presenter. In order to go through this art of expressing thoughts, at 9th September 2015 computer engineering department has organized technical national level paper presentation competition. Many colleges from Mumbai region participated in this event. From this event many students got the platform to express their innovations, ides, and thoughts at high level. Many students thought it help them in their academics, future career to get a confidence about their work to express it in front of others.

Auspicious dais of pioneer 2k15   Saurabh Jadhav receiving 1st prize   Abhishek More giving his presentation

- **ILLUSION:**

By the demand of all the students of our department, we had organized a gaming, programming and English vocabulary based event under the title "ILLUSION" on 27th Feb.2016. For this event, we got tremendous response not only from our college also from our neighborhood colleges. In gaming competition we have organized competition for **Counter Strike (CS)** and **Need For Speed (NFS)**. In the programming section, we arranged various rounds which evaluate the performance of participants in C Programming. Also in order to improve vocabulary of students we organized **Spell Bee** event which is based on English vocabulary.

Organizing Committee of ILLUSSION 2k15

Participants enjoyed thrill of LAN Gaming

MOUs Signed By Computer Department

- **Shreya Consultancy**

In order to develop soft skills in students, we made a MOU with Shreya Consultancy, Kolhapur. All participant students had gone through various activities such as group discussion, debates, email writing. This organization is awarded for ISO 9001 certificate. It was very nice interactive session by expert from Shreya consultancy with third year and second year students.

Expert from Shreya consultancy addressed RMP students

- **Dalvik App**

Nowadays, we all know that android is very fast growing technology. By using android app we can send our application through many users who has android base mobile phone. This technology has not come in the syllabus of MSBTE. In order to provide hands on experience on android app development, we invited Experts from Dalvik App, Mumbai to take a workshop on **"Android applications development"** on 16th & 17th February 2016. All the students from third year Computer Engineering Department actively participated in this workshop.

Hon.Principal Dr.S.V.Patil felicitate Amit Thool (founder of Dalvik App)

- **Man soft Institute:**

As many students don't have idea about entrepreneurship. To provide proper guidelines to all the third year students, we organized workshop for 4 days on **"Entrepreneurship Development"**. Mr. Datar has shared his various experiences with all the participating students.

Expert Lectures and Industry Visits

Students are looking for technical education, which can help them to build career in various companies. To make students aware of what is actually happened in IT Industry, what is expected from employees in IT companies. We organized various expert lectures and industry visits, so that students will go through some sort of industry oriented experience.

- Lecture on **"3D Animation"** by prof. Gadkari M.Y. (Assistant Professor at RMCET) on 07th September 2015.

- Lecture on "**Advanced Programming Languages in IT**" by Mr. Dhotre N.N.(Software Engineer at IBM) on 3rd February 2016.

- Lecture on "**Online Competitive Examination Guidance**" by Prof. Mehtre V.V. on 19 feb 2106.

- Lecture on "**Success Mantras for Diploma Students**" by Prof. Salvi M. A (Head of MMS department R.M.C.E.T.) on 22nd January 2016.

- Industry Visit of third year students to **"Gadre Marine**, **Ratnagiri**" on 20th august 2015.

- Industry Visit to "**Gadre Infotech, Ratnagiri**" on 20th august 2015.

- Industry visit to "**JSW Energy Ltd Ratnagiri**" on 19th august 2015.

- Industry visit to "**Control Room of Konkan Railway Corporation Limited (KRCL)**" on 25th January 2016.

- Industry visit to "**Acme Infovision, Satara**" on 5th February 2016.

Guest lecture on "Success Mantras for Diploma Engineer" by Prof. Salvi M.A. on 22nd January 2016

Industry visit at Jaigad

Student's Achievements

We always try to motivate our students to participate in various technical as well as non-technical competitions in our college also in other colleges. In last year, many of our students successfully participated in various regional, state level, national level competitions. Some of them succeeded in getting prizes. These students always made our department to feel proud.

- Abhishek More and Rushikesh Shetye successfully participated in power point presentation completion held at VPM Polytechnic Thane on 21/08/2015.
- Saurabh Jadhav won the first prize in national level paper presentation titled "PIONEER 2k15" organized by Rajendra Mane Polytechnic, Amabav on 09/09/2015
- Abhishek More and Rushikesh Shetye also won 2nd prize in state level presentation organized by Sahyadri Polytechnic Sawarde on 12/09/2015
- Sagar Ambre won the first prize in "Spell Bee" completion under ILLUSION 2k15 organized by ASCE committee of Rajendra Mane Polytechnic on 27/02/2016.
- Mayuri Mangle won the second prize in "Blind Programming competition under ILLUSSION 2k15 organized by ASCE committee of Rajendra Mane Polytechnic on 27/02/2016.
- Rahul Shewde and Ronit Zagade participated successfully in project competition organized by Metro Politechnic,Sawantwadi on 01/03/2016.
- Girls from computer department won the prestigious Girls Championship trophy of "Horizon 2k16" annual sports festival in Rajendra Mane Polytechnic in January 2016.
- Sheetal Patil won the "Excellent Sports Achiever" award of Horizon 2k16 annual sports festival in Rajendra Mane Polytechnic in January 2016

Computer girls lifted Girl's championship trophy of horizon2k16

Staff Achievements

Not only our students but also our staff members are also actively participated in various workshops. They always try to upgrade their knowledge by publishing their research work in various reputed journals, presenting their research work in various international conferences. Our college and our hon. Principal Dr. S. V. Patil always motivate and provide guidance to all the staff members.

- Prof. Yadav A.A. presented paper on image processing in 2nd national conference on recent advance in science & technology on 17 & 18 Feb. 2016.
- Prof. Shetye A.N presented his research work "Secure Mining for Medical Research" in an international conference entitled "Equinox 2K15" on 16 Sept. 2015
- Prof. Vankar M.D successfully passed first two semesters of her M.E. Computer Engineering.
- Prof. Shetye A.N. and Prof. Jadhav S.R. successfully completed 6 days' workshop "Foundation Skills of Information technology" organized By D.T.E. at Finolex Academy of management and technology on 02 May to 07 May 2016.
- Prof. Kamble D.K is worked as Cultural Coordinator of Rajendra Mane Polytechnic, Ambav for A. Y. 2015-16.
- Prof. Kamble D.K has worked as EAMC member for A.Y. 2015-16
- Prof. Shetye A.N created software "online quiz competition" which is used in Horizon 2K15.
- Prof. Yadav A.A. along with Prof. Chavan .N.N. successfully handled the entire online exam under MSBTE curriculum for A.Y. 2015-16.

From this year onwards, we provide an open platform to all the students of our department to propose their innovative ideas which are helpful for employees, organization in their daily need. Students proposed their ideas which can overcome the drawbacks present in the existing system. Some of ides proposed by students also got sponsorship from various organization/company.

- **Biometric Based Ration Card System:**

As we all know that ration card system has been working from many years. There are some drawbacks in this system, by which there are difficulties to apply transparency in the work. In order to improve performance of this system, Ms. Fatima Nevrekar and her group which includes Ms. Sheetal Patil, Ms. Ameena Thakur and Mr. Nageshwar Jaiswal proposed a ration card system where biometric technique for fingerprint scanning will be used. Here by using this system, only family members whose biometric impression is stored in the system will be allowed to get monthly ration. This system will also minimize the paper work and complexities in the existing system.
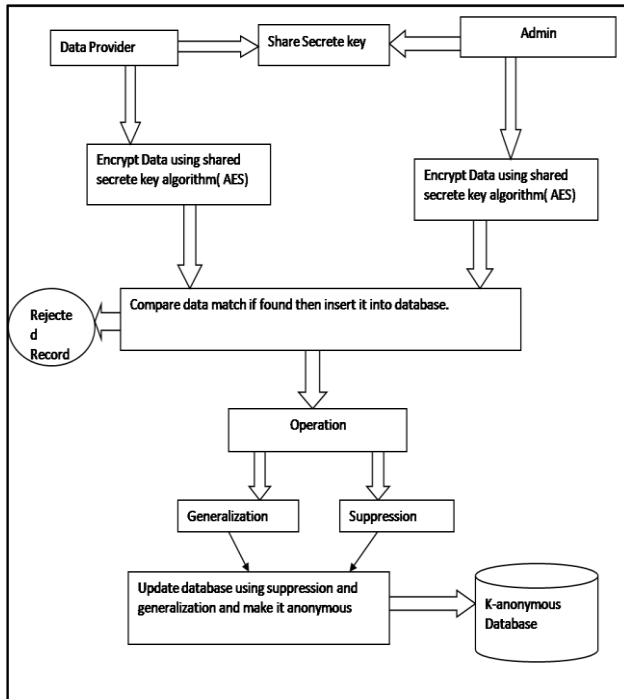
- **D-Indicator Bus Time Table Android App:**

There are many students in our college who don't have an idea about bus time table. They used to asked their friends, call to the bus station about enquiry of the bus. In order to provide a bus time table in mobile by means of an android app Ms. Shraddha Sawant, Ms. Divya Ingale proposed an app which can provide information about buses available for journey of students and it can send notifications regarding changes, delay in the timing of daily buses.

- **Lab Management System**

In our college maintained student's record about their practical work on papers in various lab register and practical evaluation sheet. To make less paper work in This system and increase transparency , Ms. Sharvari Prasade, Ms, Asavari Shetye, Ms. Mayuri Mangale, Ms. Puja Kamble proposed a system where a All the tasks and attendance of students will get stored automatically on a server machine in that lab. Staff member who has that practical, then provide remark of the work done by students. This system will also make less paper work.

- **Executive Diary using Android App:**

Now in an organization, there are various operations which are performed by employees. After completion of work all the employees have to submit their report to their administrator. It is very complicated process to write a report or communicate with administrator regularly in a day. Administrator, then also have to maintain all the records received from all its employees. To remove paper work present in writing daily executive diary, Mr. Omkar Sawant and Mr. Ajinkyaraj Pawar proposed an android app which will be useful to maintain daily record of company. By using this app, all the employees can communicate and send updates to executive or administrator daily. This proposed system would increase transparency in the system.

Architecture of proposed system

As more than 75% staff members of computer engineering department are pursuing M.E. course from various reputed colleges. In that course they are doing a research work in various areas. One of the articles which are based on that research work are listed below.

Secure Mining for Medical Research by Prof Shetye A.N:

In case of data sharing application, keeping privacy of individuals who shares its data is big issue. Many applications like hospital, bank need to share personal information of individuals that cannot be revealed. Data sharing means data is shared with other users, but while doing so privacy of sensitive data should be kept confidential (Confidentiality). Also, suppose that access to the database is strictly controlled, because data are used for certain experiments that need to be maintained confidential. Clearly, allowing any user to directly read the contents of the tuple breaks the privacy of other user; On the other hand, the confidentiality of the database managed by owner of database is violated once if any user has access to the contents of the database.The proposed technique makes data to be shared with other members. This data sharing is possible, because the proposed mechanism will alter gathered data before delivering it to the data miner. The data which is to be shared, privacy of individual is maintained ,as that individual will not get distinguished from at least k other individuals The altered data is also available in different format depending upon the data miner. The system can preserve private information of any user, sensitive data about any company, and disease information about any patient. The proposed technique "Secure Mining in Medical Research" is mainly for sharing patient data (while preserving privacy) with different researchers to define a policy, to find out drugs on some disease depending on the collected data from various patients. Proposed system is not depend trusted third party. Each time anonymous ids will get generated and assigned to participant researchers.