CONTENTS

1. From H.O.D’s Desk ..............2
2. From Editor’s Desk.............2
   • Departmental Activities.....3
   • Guest lectures
   • Workshops
   • Industrial tour
3. NSS Activities....................5
4. Staff Achievements.............6
5. Students achievements......7
6. T&P Activities
7. SAGA’12
8. Roboclub Activities
9. JHANKAR 2012
10. Women’s Day celebration

PATRON:
• Dr.L.G.Navale (Principal)
• Prof.A.J.Hake (Vice-Principal)

EDITOR:
• Prof.Mrs.K.S.Tiwari

DEPARTMENTAL STAFF:
• Prof. Mrs. P. P.Mane(H.O.D)
• Prof. Mrs. M.P.Dale
• Prof. P.B. Chopade
• Prof. Mrs. N. Masood
• Prof. Mrs. A.N.Khan
• Prof. Mrs. B.M.Narute
• Prof. P.N.Kota
• Prof.S.N.Dharwadkar
• Prof.Mrs.K.S.Tiwari
• Prof .Mrs.A. Dhavilikar
• Prof.Mrs.R.S.Kadam
• Prof.Mrs.Y. M.Ajgar
• Prof. Mrs.U.L.Biradar
• Prof.P.H.Mohite
• Prof.S.S.Pansare
• Prof.U.Bomble
Greetings to friends and faculty!

As the first semester of the college academic year unfolds, we would do well to reflect on a number of important and exciting developments at our department. First, congratulations to our students who earned good marks in their first semester. A hearty “well done!” to Prof. P.N.Kota and Prof. K.S.Tiwari for achieving research grants from University of Pune. The last few years have seen many changes here at MESCOE and I am now pleased to report that we are entering a phase of consolidation. For this I would like to thank our dear students, faculty and the supporting staff. Special thanks to Principal, Dr. L.G.Navale, Vice Principal Prof. A.J.Hake, Registrar Mr. VitthalRahane and HODs and Faculty of all the departments of MESCOE.

Our SE student numbers have stabilized at 120, our academic results were outstanding, our students outperformed in co-curricular and extra-curricular activities, and now our focus can move from growth to establishing the standards and systems needed to properly maintain the department.

In this process I expect the hard work of our students and the support of the teaching faculty and non-teaching staff of the department.

Working with our wonderful community of students and staff, we will make 2012-13 a year to remember!
FROM THE EDITOR’S DESK

As the editor of the Newsletter, I welcome all the readers and contributors, many of whom are personally known to me, and many others with whom I now wish to make an ongoing acquaintance.

Technical Education is one of the important pillars of Higher Education sector as it imparts practical knowledge to its students to build infrastructure for tomorrow. Besides generating skilled manpower, increasing industrial productivity, and improving the overall quality of life for the people, Technical Education also creates professionals in architecture, management, applied arts & crafts, hotel management and catering technology.

In E&TC, at MESCOE, we all strive hard to impart not only good quality of technical education to our future engineers, but also inculcate good moral values in them, so that they will become a good human being and contribute towards betterment of our country. This goes with saying of renowned leader, Father of the nation, Mahatma Gandhi:

“Literary education is of no value, if it is not able to build up a sound character.”

Our Department also sees to it that departmental staff knowledge level is maintained at par with industry people by conducting workshops for them, as a part of which a 2 days state level workshop in collaboration with Benchmark was conducted on RF and optical fiber communication. Our departmental intake has increased from 60 to 120, kudos to our Patrons for it!

I hope this newsletter will provide a brief report of all activities conducted in this duration.
3. Departmental Activities:

This semester our Department conducted various workshop and Guest Lectures for students.

3.1 Guest Lectures:

3.1.1 Artificial Intelligence

A Guest lecture was given by Mr. Prof. Nilesh J. Uke, Chairman of Artificial Intelligence to B.E. (E&TC) students on 3rd April 2012. The objectives of workshop was to give exam oriented guidance of Artificial Intelligence subject to students. Also being a newly introduced Subject in the curriculum of B.E students, few difficult topics were also covered by him. Students gained the knowledge about questions related to university exam and how to solve the questions.
3.2 Workshops

3.2.1 RF and Optical Fiber Communication

Name of Activity: State Level Two Day Workshop on "Measurement Techniques in Optical & R.F. Communication" on 9th and 10th Jan 2012

Objectives: Industry – Academia interaction

Details of activity: This workshop was organized by the Department of Electronics & Telecommunication in association with Agilent Technologies, Benchmark Electronic system and Synergy Measurement Technologies Pvt.Ltd. The workshop was supported by the Chief Convenor Dr. L.G. Navale -Principal and Chief-Patron Prof. A.J. Hake – Vice Principal and the Convenor Prof. P.P. Mane – Head of Dept. This activity was co-ordinated by Prof. Nabegha Masood and Prof. P.N. Kota.

Partially the workshop was sponsored by the associated industries as mentioned above along with the college. The resource faculties were from the industry. The audiences were the teaching faculties from various engineering colleges from all over the state.

The activity included lecture series on Optical and R.F. Communication followed by practical demonstration and training on the measuring instruments by industry experts of Agilent Technologies, Benchmark electronic system and Synergy Measurement Technologies Pvt.Ltd.

The workshop was designed to cover the following aspects:

- Fundamental in fiber optical communication
- Introduction to OTDR, EDFA, WDM & CD
- Fiber Optics for Digital Communication
- Hands on experience in OFS-Benchmark
- R.F. Measurement Fundamentals
- Tools for R.F. Measurement
- Interpreting results using R.F. Spectrum analyzer
- R.F. Lab trainer-Agilent
3.2.2 A one-day workshop on Personality Development for F.E Girls

One day workshop on Personality Development of F.E girls was held on 6/3/2012, Monday under the Board of Student Welfare Scheme, University of Pune, in MES college of Engineering, Pune and it was organized by Prof. Mrs. P.P. Mane, Prof. Mrs. V.J. Sonawane, Prof. Mrs. Shraddha Khonde.

The workshop was organized in Morning & Evening sessions. The Eminent speakers in the morning session were Dr. Omeshshukla, Tejgyan Foundation & In the afternoon session, the session Dr. Vrushali Randhir,
Asociate Professor Ness Wadia College of commerce respectively. Target Audience was 95 girls from First year engineering.

**Objectives of the one day workshop were:-**

1. To enhance the hidden qualities in the girls like leadership, interpersonal skills, presentation skills.
2. To develop positive approach towards life.

The workshop was inaugurated at 10.00am by Vice Principal Prof. A. J. Hake, MES College of Engineering, Dr. Omesh Shukla, Anju Sethi, Dr. Pratibhajawale, Tejgyan foundation, Prof. A.S.Purandare, Prof. S.B. Sharma.

Prof. Mrs. P. P. Mane gave Welcome speech. The Guest of honor was Dr. Omesh Shukla. The session was on developing positive attitude towards life. He focused on the concept of Iceberg. The session was wonderful. Dr Pratibhajawale and Anju Sethi assisted Dr Shukla for conduction of interactive session.

In afternoon session Vice Principal A. J. Hake felicitated Guest of honor Dr. Vrushali Randhir. She concentrated on enhancing hidden qualities of girls. The session was interactive. The qualities like leadership, punctuality, presentation skill, team work are enhanced. All the girls participated & enjoyed the session.

The Vice Principal Prof. A. J. Hake guided about different areas of life in which values are added.
3.3 **Industrial Tour**

3.3.1 **Visit to Elecrama-2012**

**Objectives**: To make students aware of the recent technologies in the field of industrial electronics and automation.

**Details of activity**: The students of S.E (ETC) and T.E. (ETC) along with the staff members visited the international exhibition by **IEEEMA held at MUMBAI EXHIBITION CENTRE**. The students got an opportunity to interact with the Technocrats, Manufacturers and Vendors and were able to obtain information on the latest technology.

**Date of Activity: 21-01-2012**

The following staff members attended the exhibition and co-ordinated the visit:
1. Prof. Vijayalakshmi  
2. Prof. Yogita Ajgar  
3. Prof. S. Pansare  
4. Prof. Mohite  
5. Mr. Shinde  
6. Mr. Kuri  
7. Mr. Shahu Jadhav  
8. Mr. Yeole

**Outcome:** Students obtained a good exposure to the projects developed by students of polytechnic and engineering students of all over the country. The best projects were selected and displayed in the exhibition. This has motivated the students to participate in the students pavilion in ELECRAMA-2013.

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3.3.2 Visit to GMRT- SCIENCE EXHIBITION, KHODAD, NARAYANAGAON

**Objectives:** To interact with the interdisciplinary department of astronomy and understand the working of GIANT METER WAVE RADIO TELESCOPES

**Details of activity:** The students of T.E. (ETC) along with the staff members visited the national science exhibition held at GMRT campus, KHODAD. The students got an opportunity to interact with the scientist of TATA INSTITUTE
OF FUNDAMENTAL RESEARCH and astronomers from NCRA and IUCAA and were able to obtain information on the GMRT OBSERVATORY. The students got to see the ARRAY OF 30 PARABOLOC DISH ANTENNAE and understand its working. At the exhibition venue students got to see the projects on display. The projects were made by students of science and engineering background.

**Date of Activity: 29-02-2012**

The following staff members attended the exhibition and co-ordinated the visit:

1. Prof. Vijayalakshmi  
2. Prof. P.B. Chopade  
3. Prof. Nabegha Masood  
4. Mr. S.B. Shinde  
5. Mr. Yeolei

**Outcome:** Students got to see the projects developed and displayed by the engineering and science students from all over the state. This has motivated the students to complete their mini projects at T.E. level and also their B.E. projects in advance so that they can get an opportunity to display their projects on the Science Day at GMRT-KHODAD. The students got an opportunity to interact with the scientist and astronomers and gain information on the UNIVERSAL LAWS OF SCIENCE.

Not only the students but also the staff was motivated to study a short term course in astronomy being conducted by NCRA-TIFR at the Pune University campus. The staff obtained information on the summer and winter school on research programs called as VISITING STUDENT RESEARCH PROGRAMME (VSRP) in astronomy being conducted by TIFR.

The staff also learnt that the scientist and astronomers conduct guest lectures for visiting students on their campus. Our institute can also arrange for the same. We were informed that we can contact the academic co-ordinator at NCRA-TIFR for the same.
3.3.3 Visit to DRDO EXHIBITION, R&D(DIGHI) PUNE

Objectives: To interact with the outside world-interdisciplinary department of the army research & development

Details of activity: The students of S.E(ETC), T.E. (ETC) & B.E(ETC) along with the staff members visited the DRDO exhibition held at R&D – Dighicampus, Pune. The students got an opportunity to interact with the scientist of R & D dept of DRDO and were able to obtain information on the warfare technology used by the army. The students got to see the warfare equipments using Robotics, applied electronic application used in the manned vehicle & automation technology in the unmanned armed vehicles. Application of Power electronics such as an equipment having variable speed constant voltage and constant frequency. Besides the applied electronics technology, students got to see the biological and chemical warfare technology used by the army.

Date of Activity: 4-02-2012

The following staff members attended the exhibition and co-ordinated the visit:

1. Prof. Vijayalakshmi
2. Prof. P.P. Mane
3.Prof.Nabegha Masood   4.Prof.Usha Boble

5.Mr.Kuri

**Outcome:** Students obtained a good exposure to the projects developed by our Indian scientists. The students got an opportunity to see the army equipment & gain information on how the field of mechanical engineering, electronics engineering, bio technology, chemical engineering, Robotics & software engineering are used in the development of warfare equipments. This may motivate the students to join the defence institute such as DIAT and pursue government jobs in the DRDO and ISRO.

3.3.4 **Visit to BSNL, PUNE**

An industrial visit of B.E students to BSNL was organized by Prof. Bharti Narute.

4. **NSS ACTIVITIES**

4.1 **Rang Panchmi celebration** program with AIDS children was organized. The Objective was to To generate the awareness about AIDS and how to deal with AIDS affected persons. NSS students celebrated Rangpanchmi with AIDS affected students which is held by Bhoi,’s pratishthan.

4.2 **Women’s day** was celebrated by arranging a lecture of Prof. VrushaliRandhir on “MahilaBachat Gat” and the objective was to To generate the awareness about women's rights.

5. **STAFF ACHIEVEMENTS:**

- **Prof. P.P. Mane:**
ii. Presented a paper, Optimization of gap between Visual Features and high level Human Semantics in Content Based Image Retrieval National Conference SCITECH-2012 at S.B.Patil College of Engineering, Pune, on 6th- 7th January 2012

iii. Wireless Pelican Robot, International Conference on Recent Technologies 2012(ICORT-2012), at Institute of Knowledge, Pune, on 9th -10th -11th February 2012.


- **Prof. M.P. Dale**

  
  ii. Reviewer for International Journal on Pattern Recognition
  
  iii. Reviewer for Int. Conference on Intelligent & Advanced Systems ICIAS2012
  
  iv. Reviewer for National Conference on Machine vision and Image Processing
  
  v. Given Expert lecture on 32 bit processor at AISSMS’s IOIT for TE E&TC students
  
  vi. Given Expert lecture on Palm as Biometric at COEP to M.Tech. students
  
  vii. Judge for ePGCON, conference for PG students of Pune Univ.

- **Prof. P.N. Kota**
i. Prof. P.N. Kota submitted research proposal on his Ph.D work and received a grant of Rs. 2.1 lacs. Kudos to him!!!.

• Prof. K.S. Tiwari
  i. Presented a paper on Reduct Generation from Binary Discernibility Matrix: An Hardware Approach in an international conference on computer vision and computing ICCCV 2012 at Singapore on 9-10 June.
  ii. Published a paper in an International conference on Engineering Research and applications (ICERA-2012), titled sequential circuit elements using reversible logic during 10-12 March 2012 at Godavari college of Engg, Jalgaon.
  iii. A Research proposal on Rough set processor design for control and automotive applications, submitted BCUD Pune was accepted and a grant of Rs.1.5 lac was received.

• Prof. R.S. Kadam & Prof. A.N. Khan
  i. A National level workshop was attended by Prof. Kadam on latest trends in image processing in RajashriShahu college of Engineering, Pune in Jan 2012.

• Prof. S.S. Pansare:
  i. Attended workshop on Innovative practices in teaching organized by MESCOE, Pune on 23rd Feb 2011.
  ii. Attended workshop on measurement techniques in RF & Optical communication organized by MESCOE, Pune on 9 &10th Jan 2011.
• **Prof. P.H. Mohite:**
  ii. He also presented paper titled Performance analysis of wavelet for image compression at ICORT, Pune in an International Conference.
  iii. He won first prize in an IEEE project competition on signal and image processing at COEP. Kudos to him!!!!

6. **Students Achievements:**
   i. Rima Fernandes and Aishwarya Deshmukh of B.E EE&TC presented a paper in an International conference on Engineering Research and applications (ICERA-2012), titled sequential circuit elements using reversible logic during 10-12 March 2012 at Godavari college of Engg, Jalgaon. It was their B.E. Project work under the guidance of Mrs. K.S. Tiwari.
   ii. Shivraj Rathod, Mangesh Dhakane and Priyanka Deosarkar presented their B.E. project work under the guidance of Prof. Nabegha, in an international conference on Electrical Engineering and computer Science (ICEES) held at Goa on & April 2012. The paper titled High Gain, Enhance Bandwidth Micro strip Antenna Design Will be published in a journal too. Also they all received Interscience Young Investigator Award for best presentation in the conference. They also participated in IMPETUS and CONCEPTS 2012 (National level Technical Symposium) at PICT, Pune. They also participated in M-pulse 2012 organized by P.E.S Modern college of Engg, Pune-05 from 13-15 Feb 2012.
   iii. Atman Mehta of B.E. E&TC received second prize in IEEE project competition on signal and image processing at COEP under the category of under graduate students. They were guided by Prof. S.N. Dharwadkar for the same.

7. **T&P Activity:** Prof. S.N. Dharwadkar coordinator of departmental T&P
Activities, facilitated in smooth conduction of placement of students. Our T&P cell is improving and so are our placements too. T&P cell along with SEED Infotech conducted a test on “C” for all department students of all year. The table shown below summarizes the placement record of the academic year 2011-12.

### Placement Activity – 2011 - 2012 Batch

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Computer</th>
<th>E&amp;TC</th>
<th>Mechanical</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>50% &amp; Above</td>
<td>12</td>
<td>5</td>
<td>7</td>
<td>24</td>
</tr>
<tr>
<td>50% &amp; Above with LIVE Backlog</td>
<td>6</td>
<td>6</td>
<td>8</td>
<td>20</td>
</tr>
<tr>
<td>55% &amp; above</td>
<td>8</td>
<td>11</td>
<td>6</td>
<td>25</td>
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<tr>
<td>55% &amp; above with LIVE Backlog</td>
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<td>1</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>58% &amp; above</td>
<td>3</td>
<td>6</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>58% &amp; above with LIVE Backlog</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>60% &amp; above</td>
<td>23</td>
<td>15</td>
<td>19</td>
<td>57</td>
</tr>
<tr>
<td>60% &amp; above with LIVE Backlog</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Less than 50%</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>7</td>
</tr>
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</table>

### Eligible Students as per Defined Criteria

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Computer</th>
<th>E&amp;TC</th>
<th>Mechanical</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eligible Greater than 55 %</td>
<td>34</td>
<td>32</td>
<td>28</td>
<td>94</td>
</tr>
<tr>
<td>Eligible Greater than 58%</td>
<td>26</td>
<td>21</td>
<td>22</td>
<td>69</td>
</tr>
<tr>
<td>Eligible Greater than 60%</td>
<td>23</td>
<td>15</td>
<td>17</td>
<td>57</td>
</tr>
<tr>
<td><strong>Selected</strong></td>
<td><strong>22</strong></td>
<td><strong>24</strong></td>
<td><strong>15</strong></td>
<td><strong>61</strong></td>
</tr>
<tr>
<td><strong>Number of Companies visited</strong></td>
<td><strong>29</strong></td>
<td><strong>16</strong></td>
<td><strong>18</strong></td>
<td><strong>-</strong></td>
</tr>
<tr>
<td><strong>Percentage Placement</strong> ( Above 58%)</td>
<td><strong>88%</strong></td>
<td><strong>90%</strong></td>
<td><strong>88%</strong></td>
<td><strong>88%</strong></td>
</tr>
</tbody>
</table>

### SAGA-12:

SAGA 2012 was a huge success which saw the crowd of more than 500 students from MESCOE as well as outside colleges. There were lots of technical as well as non-technical activities carried out under SAGA-12 which included KnowElex, OhmFactor, Walk through the Gates, Play with opamps, MiniRobo War, Tech Paparazzi, Makesite, CPU Assembly, CodeFury, Contraption, Lathe’s Fight, 3D Warz, Google Whack, Piezo Power, Pirates of the Caribbean, Makesite, Naughty Networks, Paths Of Glory, Death Race etc. It was conducted during 23-25 Feb 2012. It received an overwhelming response from students of our college. All
B.E. Students managed and coordinated the activities with juniors smoothly. The total expenditure of SAGA-12 was 1.5 lacs.
9. Roboclub Activity:

An Autonomous workshop was conducted by Senior Roboclub members and Alumni Mr. Saurav on 10th and 11th March 2012. It got overwhelming response and many students have participated in various external events on robotics.
10. **Jhankar 2012**

Our college organises various cultural activities each year. This year also, we had great cultural week which was conducted smoothly & everyone (students & teachers as well) enjoyed it a lot. It includes various day celebration, traditional day, fun fair, cultural program, lunch/dinner for whole college.

This year, we formed various 25 organizing committees to complete all tasks in suitable manner. We deployed students from B.E. & T.E. as coordinators & sub coordinators in each committee. Students from second year worked as volunteers. Not only it helped us for easy management but also more and more students became part of management of Jhankaar & got the opportunity to brush up their management skills. We had separate system running simultaneously for each task without any conflicts. Core committee kept keen watch on the working of each committee.

We did set a benchmark in history of cultural activities of our college this year in every manner. May it be quality of performances, or may it be management of events superiorly or may it be perfect blend of discipline & fun, enjoyment altogether. We introduced micromanagement concept of corporate world in management of Jhankaar (cultural week) to keep every minute detail of activities under control. This idea was from our cultural in-charge Prof. P. N. Kota sir who helped us a lot for organising events.

Conclusively, we had great fun & enjoyment. This cultural week have a pivotal role to maintain college's environment artistic & cherish.
Inaugral of Jhankar 2012 at the hands of Dr. Navale, ex principal Kondwekar Sir and Hake Sir.

Students performing Shivaji Play during Jhankar 2012

Prof. P.B. Chopade and Prof. P.N. Kota receiving prize for their sketch put up in ART GALLERY
11. **Women’s Day Celebration**

**Time:** 9.30 AM to 11.30 AM

**Target Audience:** MESCOE Ladies Staff.

**No of Participants:** 34      **Date:** 8 March 2012

**Coordinators:**
Prof Y A Ajgar(ETC)     Prof Vaishali Sonawane (MECH)  Prof S K Wagh.(COMP)

**Topic:** HOW TO LIVE STRESSFREE LIFE

**Activity Report:** “How to live stress free life” Seminar was conducted by Mr Ravindra Shende, Tejgyan Foundation, Pune. Mr Ravindra Shende have been associated with Tejgyan Foundation, Pune since 14 yrs. Along with Mr Shende, Mr Omesh Shukla, Dr Pratibha Javale, Ms Priyanka Dikshit were present for Seminar.

Mr Ravindra Shende discussed about ‘A Way’ To Stress Free Life, does not just encounter the many reasons for our stressful thinking which in turn leads to stressful living, but also gives straight forward solutions and techniques to face stress head on. He advised some remedies such as –

1. **Power of acceptance**— How to face negative incidences
2. **How to respond in different situations**
3. **Self Talk** while dealing with ‘negative’ events and people

**Outcome:**

1. **International Women’s Day** – an International event celebrated.
2. MESCOE ladies staff got information related to “How to live stress free life help” which help them to respond in different situation and self-talk while dealing with ‘negative’ events and people.
Mr. Ravindra Shende addressing all at his guest lecture, on the account of women’s day

Prof. Y.M. Ajgar delivering vote of thanks