



ShramaSadhana Bombay Trust's
College of Engineering & Technology, Bambhori, Jalgaon

DEPARTMENT OF MECHANICAL ENGINEERING

GRAVITY

Volume X

Newsletter: Jan2017-June2017

Our Inspiration

About College



Hon. Smt. PratibhataiPatil
&

Hon. Dr. Devisinghji Shekhawat

Shri.Raosaheb Shekhawat

Trustee

Shram Sadhana Bombay Trust runs the College of Engineering & Technology at Bambhori, which is the one of the important Industrial Town & District Head quarters of Maharashtra state. College is awarded as Best Engineering College of Maharashtra State by Engineering Education Foundation, Pune in year2008-09. The College has ten full-fledged Departments. The college has been included in the list of colleges prepared under Section2(f) of the UGC Act,1956 vide letter numberF8-40/2008(CPP-I), May,2008 & 12(B) vide letter number F.No.8-40/2008(CPP-I/C) dated Sept2010. The Institute is Accredited by National Assessment and Accreditation Council (NAAC) with CGPA of 2.91 on a seven point scale at B++ Grade, valid for a period of Five Years from 16-09-2016 (Vide letter No: F.19.26/EC(SC-17)/DO/2016/132.1.)

SALIENT FEATURES

- ◊ Experienced, Qualified & Research Oriented Faculty
- ◊ Modern and Well Equipped Laboratories
- ◊ NAAC Accredited for 5 Years with B++ Grade
- ◊ Project Based Learning

- ◊ Wi-Fi Campus
- ◊ Research Facilities
- ◊ Teacher Guardian Scheme
- ◊ Well Equipped Laboratories

VISION

Today we carry the flame of quality education, knowledge and progressive technology for global, societal development; tomorrow the flame will glow even brighter.

MISSION

To produce conducive environment for preparing competent, value added and patriotic engineers of integrity of par excellence to meet global standards for societal development.

DEPARTMENT VISION

To nurture the students by providing high quality broad based technical education for global societal development and continuous improvement in value added knowledge

DEPARTMENT MISSION

To cultivate a conducive environment through teaching, application specific learning and services to foster the technical critical thinking ability of the students as well as the faculties to contribute for developing global mechanical engineering professionals and well being of the society.



PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

1. Core Knowledge: The mechanical engineering graduates will have the knowledge of basic science, engineering skills, humanities, social science, management, conceptual and practical understanding of core mechanical engineering area with project development.

2. Employment: The mechanical engineering graduates will have the knowledge of Industry-based technical skills to succeed in entry level engineering position at various industries as well as in academics.

3. Professional Competency: The mechanical engineering graduates will have the ability to communicate effectively in English, to accumulate and disseminate the knowledge and to work effectively in a team with a sense of social awareness.

PROGRAM OUTCOMES (POs)

- a) An ability to apply knowledge of computing, mathematics, science and engineering fundamentals appropriate to the discipline
- b) An ability to analyze a problem, identify and formulate the mechanical engineering requirements appropriate to its solution
- c) An ability to design, implement, process and component to meet desired needs with appropriate consideration for public health, safety, cultural, societal and environmental considerations
- d) An ability to design and conduct experiments as well as to analyze and interpret data
- e) An ability to use current techniques, skills, and modern tools necessary for mechanical engineering practice
- f) An ability to analyze the local and global impact of mechanical engineering task on individuals, organizations and society
- g) Knowledge of contemporary issues
- h) An understanding of professional, ethical, legal, security, social issues and responsibilities
- i) An ability to function effectively individually, on teams, including diverse and multidisciplinary, to accomplish a common goal
- j) An ability to communicate effectively with a range of audiences
- k) An understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects
- l) Recognition of the need for and an ability to engage in continuing professional development

Audit Courses Details

Sr. No.	Course Title	Duration	Number of Students Attended.
1	Introduction to CAD/CAE	19 th Jan to 30 th Jan 2017	20
2	Introduction to Inventor	1 st Feb to 7 th Feb 2017	25
3	Basics of CFD	13 th Feb to 20 th Feb 2017	06
4	Introduction to Hyper mesh	6 th March to 10 th March 2017	24
5	Alternative Fuel: - Future Needs	16 th Jan to 20 th Jan 2017.	18

Ongoing Funded Projects

Sr. No.	Name of Faculty	Agency	Amount in Rs.
1	Mr. D. B. Sadaphale	NMU(VCRMS)	1,00,000/-
2	Mr. P. N. Ulhe	NMU(VCRMS)	90,000/-
3	Mr. P. M. Solanki	NMU(VCRMS)	1,10,000/-

DEPARTMENTAL EVENTS



**Expert Lecture on, "Introduction to Cement Technology",
by Er. Atul Dixit on 21/01/2017**



**Inspirational Video Lecture by Mr. Sajan Shah
organised on 27/01/2017**



**Expert Lecture on
"Mechanical Engineering in Thermal Power Plant"
by Mr. Rajendra Kabra on 21/3/2017**



**Expert Lecture on
"Advances in Agricultural Technology"
by Dr. K. B. Patil, on 31/01/2017**



**Guest Lecture on "RTO Exam Techniques" by
Mr. Gajanan Patil Dy. R. T. O., Jalgaon,
on 02/02/2017**



**Expert Lecture on "Pump & Motors"
by Mr. Pandhari Susar, from Crompton Greaves,
on 04/03/2017**



**Motivational Lecture by Ms. Radhika Zawar
on 07/03/2017**



**Skype Interaction on "Job Profile & Work Profile"
with Alumni Er. Neerajkumar, working in Bosch, Germany
on 18/03/2017**

STUDENT'S ACHIEVEMENTS –CO-CURRICULAR

SR. NO	Student Name	EVENT	ACHIVEMENT
1	AshwinThakkar, VinayMule, Aniket Aware & ankitShirsat	DIPEX-2017	WINNER (Agriculture Engineering Section)
2	AshwinThakkar, Vinay Mule, Aniket Aware & ankitShirsat	Awarded for Innovative project "Krushak-A Multipurpose Agriculture Equipment"	ZEE-24 TASS YOUNG INNOVATION AWARD
3	AshwinThakkar	VASANTUTSAV-2017	Best Outgoing Student



WINNER -DIPEX-2017(Agriculture Engineering Section)



Zee24 Taas Young Innovator Award -2017

TOPPERS OF THE DEPARTMENT (May 2017)

SE-A		
Rank	Student Name	SGPA
I	BobdeTushar Suresh	8.26
II	PawarRushaliYuvraj	8.00
III	Kokande Praful Kailas	7.96

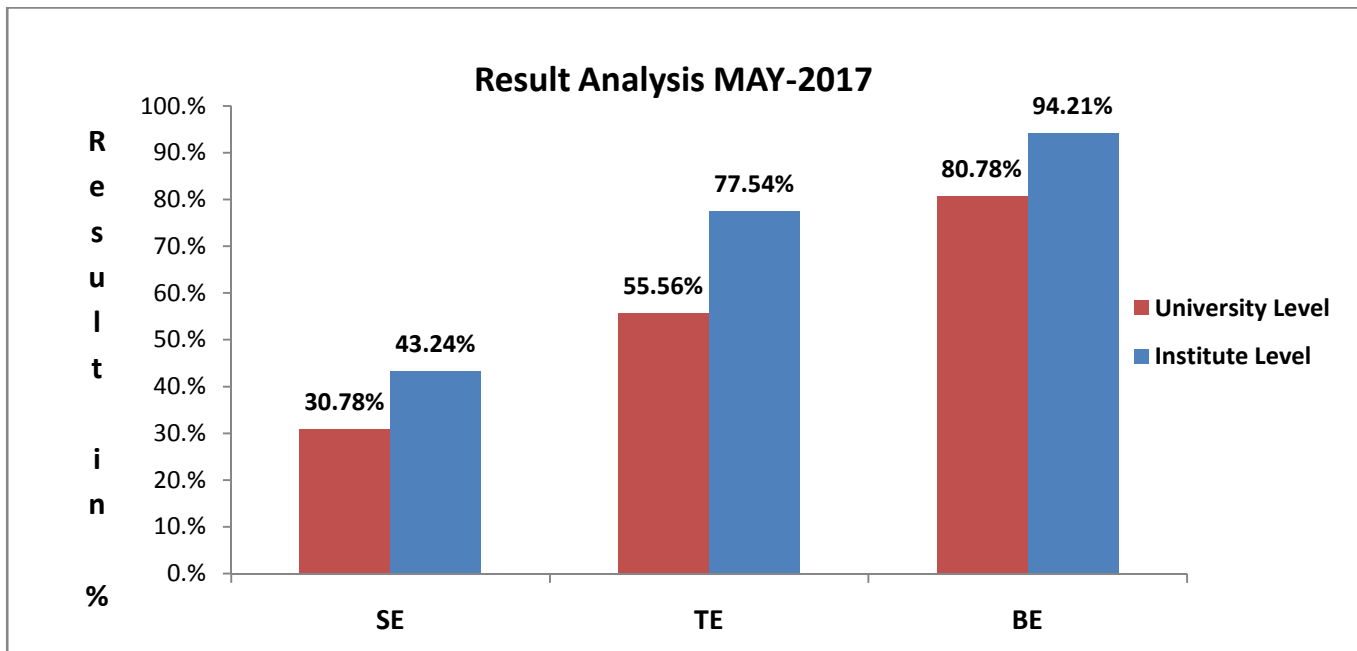
SE-B		
Rank	Student Name	SGPA
I	Chaudhari Rahul Anil	8.73
II	Momin Arbaz Salim	8.67
III	Pingale Sagar Bhikar	8.57

TE-A		
Rank	Student Name	SGPA
I	Nagtilak Anup B	8.43
II	Bute Shreyas A.	8.40
III	Shaikh Sohail	8.38

TE-B		
Rank	Student Name	SGPA
I	Waykole Aniket A.	8.86
II	Koli Sagar K.	8.43
III	Patil Prafulla J.	8.18

BE-A		
Rank	Student Name	SGPA
I	Zambre Nikhil	8.66
II	Ashish Kumar	8.37
III	Maniyar Lalit	8.34

BE-B		
Rank	Student Name	SGPA
I	Thakkar Ashwin	9.04
II	Patil Aakash S.	8.56
III	Bhangale Darshan V.	8.55



PLACEMENT DATA

Sr.No.	Company Name	No. of Students Placed	Package(LPA)
1	Bafana Motors, Aurangabad.	8	1.00
2	Shriram Transport Finance Co. Ltd.	6	2.16
3	Godavari Trucks, Nanded.	2	1.20
4	Nexa Motors	2	1.20
5	Spectrum Polytech, Jalgaon.	2	1.50



KRUSHAK-A Multipurpose Agriculture Equipment



Design and Fabrication of Automated Tyre Inflation System



Felicitation of Students for their Performance in Different Competitions

FACULTY PARTICIPATION& PUBLICATIONS

Sr. No.	Faculty	Training/STTP/Workshops	Duration	Venue
1	Dr. S P Shekhawat, Mr. N. K. Patil, Mr. P. G. Damle, Mr. D. B. Sadaphale	Manufacturing of Advanced Materials (MAM-2017)	26 th to 31 st May 2017	VNIT, Nagpur
2	Mr. A. R. Bharadwaj	Finite Element Modeling: Research & Industrial Applications (FEMRIA-2017)	1 st to 6 th June 2017	VNIT, Nagpur
3	Ms. J. R. Surange, Mr. A. V. Deshmukh	Project Based Summer School & Software Training Program on CFD	26 th May to 30 th June	VNIT, Nagpur
4.	Mr. A. V. Rajput	STTP on Research Methodology	19 th to 23 rd June 2017	Mauli Group of Institutes, Shegaon
5.	Mr. T. G. Patil	Three days' workshop on "Industrial Practices in Refrigeration And Air-Conditioning"	1 st to 3 rd June, 2017.	Department of Mechanical Engineering, Pimpri Chinchwad College of Engineering, Pune.

Sr. No.	Faculty	Papers in Conferences/ Journals
1	Dr. S P Shekhawat	"Understanding the radiation transmission model in turbid water using net radiation meter" in International Journal of Basic and Applied Research.
2	Dr. S P Shekhawat, Mr. P. M. Solanki	"Effects of Machining Parameters on Tool Steel D2 in Wire cut EDM" in IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)
3	Mr. N.K. Patil	"Photo elastic Stress Analysis of Bell Crank Lever- A review, in IRJET
4	Mr. N. K. Patil, Ms. T. A. Chaudhari, Ms. J. R. Surange	"Review- Design and Failure Analysis of Front Suspension Arm of Car, in Int. Journal of Innovative Research in Science, Engineering and Technology. January 2017
5	Mr. N. K. Patil, Ms. T. A. Chaudhari, Ms. J. R. Surange	"Using Image Processing of Grinding Wheel, in Int. Journal of Innovative Research in Science, Engineering and Technology. January 2017
6	Mr. K Shrivastava	"Solar and Human Power Operated Vehicle with Drive Train. In Int. Journal of Innovative Research in Science, Engineering and Technology. January 2017
7	Mr. P.G. Damle	"Experimental Investigation and Formulation of Model of Deburring Process of Mat Manufacturing, in Int. Journal of Engineering Research and Application
8	Mr. D. B. Sadaphale	"Design Of Spiral Chip Feeder Used In Pulping Plug Screw Unit, In International Journal Of Innovative Research In Technology
9	Mr. M. V. Rawlani	"Design and Fabrication of Low Smoke Multipurpose Chulha, in IJRAET, January 2017
10	Mr. A. R. Bharadwaj	"Metal Matrix Composites for Automotive Application – A Review, in Proceedings of National Conference on Current Trends in Engineering, Science, Technology and Management (NACCTESTM-2017)
11	Dr. P. P. Bornare , Mr. D. C. Talele	"A Critical Review on Possible Causes of Induction Pressure Variation in a Four Stroke Compression Ignition Engine at International Conference on Recent Trends in Engineering & Science (ICRTES 2017), January 20 th – 21 th , 2017.
12	Mr. T. G. Patil, Mr. D. C. Talele	"Performance Evaluation of a Single Cylinder Compression Ignition Engine using Diesel and Bio-Diesel" in International Journal for Scientific Research & Development (IJSRD)

PHOTO GALLERY



A Leading News Channel-Zee 24 Taas Young Innovators Award-2017 to our Budding Innovators.



Glimpses of VASANTUTSAV-2016-17



Industrial Visit of Second Year Students - Thermal Power Plant, Dipnagar.