

LSSBM'S
Padm Dr. V. B. Kolte College of
Engineering, Malkapur



News Letter
Department Of Mechanical Engineering

Vision

To be an Organization providing quality Education to the masses to bring about a social change in the region by establishing & nurturing the technical, and allied institutions to become centre of excellence.

Mission

- ✿ To nurture and maintain quality environment for academic excellence, research and development of entrepreneurship, through dedicated staff and transparent management for bringing about a social change, through affordable education.
- ✿ To impart holistic training to all the students so that they develop right kind of attitude, knowledge & skills which will help them to serve the nation in a better way.
- ✿ To imbibe in the students, basic human values in order to help them, develop individually.
- ✿ To provide education at reasonable expenditure, especially for middle class population.
- ✿ To provide up-to-date and trained professionals to industry who will serve as a entrepreneurs and will lead their companies successfully.



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Volume 4

About Department



Mechanical Engineering is the basic branch of Engineering in which study of design, development, manufacturing, analysis & maintenance of different systems are included. It also includes study of energy & energy conversion system.

Mechanical Engineering Department of VBKCOE is well equipped with state of the art laboratories & Facilities. Our well qualified and competent team provides both theoretical and practical education through industry-institute interaction, industrial visits; guest lectures, vocational in-plant training etc.

Faculty members & students are encouraged to participate in different National & International conferences, seminars & training programme to update their knowledge about the recent technological developments. Keeping track of research, innovations in this field help our students be abreast with changing world of knowledge and skills related to Mechanical Engineering field of studies. Overall development of students is achieved through student organizations, Debates, Group Discussions, and Quizzes etc.

We welcome you to the Department of Mechanical Engineering and wish you All The Best!

Prof. S.R. SHEKOKAR

Head, Department of Mechanical Engineering

Padm. Dr. V. B. Kolte College of Engineering, Malkapur

Email ID: mech.vbkcoe.mlk@gmail.com, srshekakar@gmail.com

VISION

To impart quality education among students by enhancing their learning aptitude and gearing up them with intellectual, physical, analytical and Practical Capabilities.

MISSION

- ✓ To impart basic fundamental and applied education in the field of Mechanical Engineering that will lead to multidimensional development of students.
- ✓ To impart state of the art engineering education through strong theoretical foundation and practical training to students in their choice of specialization.
- ✓ To provide high quality broad based education and experience based learning in engineering
- ✓ To offer human value, technical and spiritual environment for special learning experience in Mechanical Engineering.

PROGRAMME EDUCATIONAL OBJECTIVES (PEO's)

Program Objective 1

Graduates shall make their way to the society with proper scientific and technical knowledge in mechanical engineering.

Program Objective 2

Graduates shall work in design and analysis of mechanical systems with strong fundamentals and methods of synthesis.

Program Objective 3

Graduates shall adapt to the rapidly changing environment in the areas of mechanical engineering and scale new heights in their profession through lifelong learning.

Program Objective 4

Graduates shall excel in career by their ability to work and communicate effectively as a team member and/or leader to complete the task with minimal resources, meeting deadlines.

PROGRAMME OUTCOMES (PO's)

- Ability to apply knowledge of mathematics, science and mechanical engineering fundamentals for solving problems.
- Ability to Identify, formulate and analyze mechanical engineering problems arriving at meaningful conclusions involving mathematical inferences.
- Ability to design and develop mechanical components and processes to meet desired needs considering public health, safety, cultural, social, and environmental aspects.
- Ability to understand and investigate complex mechanical engineering problems experimentally.
- Ability to apply modern engineering tools, techniques and resources to solve complex mechanical engineering activities with an understanding of the limitations.
- Ability to understand the effect of mechanical engineering solutions on legal, cultural, social, public health and safety aspects.
- Ability to develop sustainable solutions and understand their impact on society and environment.
- Ability to apply ethical principles to engineering practices and professional responsibilities.
- Ability to function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.
- Ability to comprehend, design documentation, write effective reports, make effective presentations to the engineering community and society at large.
- Ability to apply knowledge of engineering and management principles to lead teams and manage projects in multidisciplinary environments.
- Ability to engage in independent and life-long learning in the broad context of technological changes and advancements

Objectives

- ✓ Excellence in creating academic environment
- ✓ To excel in teaching – learning process, teaching with modern aids like LCD projectors and audio visual means.
- ✓ Focus on Theoretical & Practical Knowledge
- ✓ Focus on Self-learning and self study Capability developments



Dr. S. B. Thakare
Professor Mechanical Engineering Dept. PRMIT & R, Badnera

Industry Expert Lecture



Mr. Mayur Kolhe H. R. Manager,
Shendra Plant, Dhoot Transmission Pvt Ltd., Aurangabad



Dr. Prasad Phadtare, Section Manager,
John deer Pvt. Ltd., Pune



Mr. Mahesh Chirmade, Engineering Service
Consultant, Thane



Mr. Shubham Somani, Owner & Founder,
Senior Mechanical Design Engg., IVTR, Akola

Guest Lectures



Dr. J. S. Gawande Head of Mechanical Engg.
Dept.J. S. P. M. Campus, Pune



Dr. Prashant S. Lokhande Professor, T&P
Head,Pillai College of Engineering, Panvel
(Navi Mumbai)



Dr. A. K. Gupta,Former Advisor Sharda
Institute of Technology, Agra (U.P.)



Dr. K. D. Patil,B. D. College of Engg.,
Sevagram



Dr. N. B. Chopade,Head of Dept.PCMC College
of Engineering, Pune



Dhananjay B. Bangal Principal,KVN
Polytechnic, Nasik

Industrial Visit



Jadhao Gear Pvt. Ltd Amravati on date 29/01/2019



Visit at Railway station Malkapur on date 11/03/2019



Visit at Maharashtra engineering works Malkapur on date 4/10/2018

WINTER VACATION COURSE

Auto Cad & CATIA Software
Scheduled -12 Dec 2018 to 05th Jan 2019

Conducted by I Cad Training Institute Faizpur



Entrepreneurship Awareness Camps



Student industry Internship

Sr No.	Name of students	Year	Name of firm
1	Rakesh Anil Attarde	Final Year	TechUp Products, Nanded
2	Magesh Mahadeo Jadhao	Final Year	Sahyadri Motors, Sangrampur
3	Mohan Kailas Kusumbe	Final Year	Vivekanand Auto Parts, Shegaon
4	Roshan Sunil Deshmukh	Final Year	Akshara Agro Engg., Shelapur Khurd
5	Chatrapti Mohit RajKumar	Final Year	Mangalam Techno Air Equipments Pvt. Ltd. Noida
6	Nitin Nivrutti Kinge	Final Year	Vijay Engineering Works, Buldana
7	Sachin Prakash Herode	Final Year	Dusane Auto, Jalgaon
8	Pavan Sahdeo Nage	Final Year	Dusane Auto, Jalgaon
9	Mirza Tanveer Baig	Final Year	Ovi Enterprises, Sangvi, Pune
10	Syed Junaid Syed Masoom	Final Year	Ovi Enterprises, Sangvi, Pune
11	Mohd. Tausif Mohd. Sharif	Final Year	Ovi Enterprises, Sangvi, Pune
12	Taukir Ahmed Masoom Ahnmed	Final Year	Ovi Enterprises, Sangvi, Pune
13	Abdul Nadeem Abdul Qayyum	Final Year	Ovi Enterprises, Sangvi, Pune
14	Mohd. Haris Mohd. Shaqil	Final Year	Ovi Enterprises, Sangvi, Pune
15	Gopal Sopan Dalvi	Final Year	Sahyadri Motors, Sangrampur
16	Aashish Suresh Satao	Final Year	Sahyadri Motors, Sangrampur
17	Vishal Shashikant Borle	Final Year	Laxmi Enterprises, Malkapur
18	Yshwant Prakash Bole	Final Year	Laxmi Enterprises, Malkapur
19	Suraj Arun Ambekar	Final Year	Mahesh Engineering & Welding Works, Gadegaon, Malkapur
20	Vishal Rajaram Kathore	Final Year	Mahesh Engineering & Welding Works, Gadegaon, Malkapur
21	Mahesh Laxman Khachane	Final Year	Mahesh Engineering & Welding Works, Gadegaon, Malkapur
22	Rehbar Ahmed	Third Year	Famous Welding Works, Khamgaon
23	Rafe Nadeem Khan	Third Year	Famous Welding Works, Khamgaon

24	Dipak Bhika Sapkale	Final Year	Dusane Auto, Jalgaon
25	Dhiraj Trambak Banger	Final Year	Vivekanand Auto Parts, Shegaon
26	Akash Ramdas Nimbalkar	Final Year	Shri Samarth Tractor, Khamgaon
27	Sagar Vinod Narkhede	Third Year	MSS India Pvt. Ltd., Nashik
28	Bhushan Pralhad Wakte	Third Year	MSS India Pvt. Ltd., Nashik
29	Sujeet Baburao Bhoi	Third Year	Electric Loco Shed, Central Railway, Bhusawal
30	Dhananjay Bapu Patil	Third Year	Electric Loco Shed, Central Railway, Bhusawal
31	Sanket Sanajay Kharche	Third Year	Electric Loco Shed, Central Railway, Bhusawal
32	Dhanajay Bhombe	Third Year	Electric Loco Shed, Central Railway, Bhusawal
33	Vishal N. Kharche	Third Year	Electric Loco Shed, Central Railway, Bhusawal
34	Kartik Tayde	Third Year	Electric Loco Shed, Central Railway, Bhusawal
35	Parag N. Patil	Third Year	Electric Loco Shed, Central Railway, Bhusawal
36	Rushikesh Chikhalkar	Third Year	Electric Loco Shed, Central Railway, Bhusawal
37	Jayesh Sharad Chaudhari	Third Year	Electric Loco Shed, Central Railway, Bhusawal
38	Anmol Gajanan Barhate	Third Year	Electric Loco Shed, Central Railway, Bhusawal
39	Syed Farhan	Third Year	Electric & Gasoline, MIT ADT Univ., Pune

Parent Meeting



Extra- curricular activities





CNC ROUTER MACHINE PROJECT GROUP

Achievements

1. Sujit B Bhoi Won The 1st Prize In The Event “Essay competition ” Organized by Gurunath foundation muktainagar At VBKCOE Institute on march 2019.
2. Sayyed Farhan Won the 2nd Prize in the event “CAD WAR “ At Manav school of Engineering Akola
3. Vishal kathore won the 2nd Prize in the event “ National level Tech Tantra 2k19 Robo race competition 17 march 2019 At Dr. V.B.Kolte College of Engineering Malkapur
4. 30 Student had Published Papers in International Journals.

Topper List

Rank	Name of Student	Marks Obtained	SGP A
Secound Year			
1	Nurain Zafar M Rasheed	505	7.24
2	Ram Chango Ghyar	501	7.12
3	Bhagyesh Dinesh Patil	498	6.88
Third Year			
1	Anmol Gajanan Barhate	546	8.52
2	Ramesh Ramdas Amale	504	7.78
3	Dhiraj Mahesh Kolhe	491	7.7
Final Year			
1	Pravin Bhagwat Bathe	544	7.85
2	Dipak Dnaneshwar Ratnaparkhi	524	7.52
3	Shraddha Pravinkumar Jain	519	7.59

TRAINING & PLACEMENT ACTIVITY

➤ Placement Drive

Name of Company	No. of Student Selected
Kolbro group & kolbro Engineering pvt.ltd Nagpur	20
Dhoot Transmission Pvt Ltd aurangabad	21
MSS India PVT.LTD, Nashik	08
Epic Research Indore	10
Off Campus	06

➤ Start up

Name of Student	Name of start up	Nature of startup
Gopal Sopan Dalvi	Sahyadri Motors, M&M Tractors, Spare parts & service	Sales & service
Rakesh Attarde	Carbonated soft drink in different flavaors	Soft drink
Chanda Shekokar	MODERN HAIR & BEAUTY, WAKAD, PUNE	Beauty parlor
Ashvini Sant	3D PRINTING SERVICES KHAMGAON	3d printing

2k19 ROBO-RACE Competition



Cultural Event



Lab Facilities

1.Engineering Workshop

The workshop has different section namely the foundry, fitting , welding , smithy and carpentry. This impart basic skills to students. The objective of this lab is to make the student familiar with various tools and processes used in different manufacturing & Production sectors. The lab is Equipped with Milling Machine ,Shaper machine ,lathe machine ,Gas and Arc welding Machine ,rolling machine ,mould and casting ,sand testing ,injection molding ,CNC lathe and multi tool high production turret lathe.



2. CAD Lab

The objective of this lab is to understand and prepare 2D Sketching and 3D Sketching, 2D Drawing 3D Drawing, Parametric part Modeling, Assembly design, Surface Modeling on computer to understand plan, elevation and cross section. To prepare drawing a fair knowledge of units and scales and drawing instrument as well as their application. The lab is having latest software like AutoCAD, CATIA, CREO, Solidworks, Ansys.



3.Fluid Mechanics lab

This lab is equipped with variety of flow measuring devices such as venturi meter, weirs and notches orifice meter and couple of equipment for flow study techniques estimating losses in pipes study of impact jets over vanes etc. The machinery lab is equipped with Pelton wheel francis turbine, Reciprocating pump, centrifugal pump hydraulic ram etc. The objective of lab is to understand function of various experiment analyze the result and draw the performance curve.



4.Refrigeration and Air Conditioning lab

This lab is equipped with Vapour Compression Refrigeration test rig, refrigeration test rig, air condition test rig, ice plant test rig and host of other equipment. The objective of lab is to study window A/C, Air washer, Basic component of refrigeration and air conditioning system and to conduct experiment on refrigeration and air conditioning test rig.



Major equipments include:

- Air Condition Test Rig
- Refrigeration Test Rig
- Vapour Compression Refrigeration System Test Rig
- Refrigeration Model
- Window Air Condition Test Rig
- Ice plant Test Rig

5.Energy Conversion lab

This lab is equipped with Trial on Centrifugal blower, Two Stage air compressor test rig, Lever safety Valve, Spring loaded valve, Dead weight safety, Water Gauge model, Fusible plug, Green Economizer, Babcock Wilcox boiler, Benson boiler, Lamont boiler. Objective of lab is to understand working principal and actual model in boiler, Centrifugal blower, Two Stage air compressor and various model



6. Automobile Engineering lab

This lab is equipped with Cut Section of Single Cylinder 4 Stroke petrol Engine ,Cut Section of Single Cylinder 2 Stroke petrol Engine, actual cut section model of steering rack and pinion, actual cut section model of defferential gear box, Suspension System, Suspension kit actual model.The Objective of lab is to understand working principal clutch, chassis, gear Brake, Lubrication system, of petrol diesel engine and analysis of experimental result.



7.Internal combustion engine lab

This lab is equipped with multi cylinder four stroke petrol engine experimental setup, single cylinder four stroke petrol/diesel engine having variable compression ratio facility experimental setup,4 stroke petrol engine cut section, 4 stroke diesel engine cut section. some of these equipment are being used for advanced research



8. Theory of machine lab

This lab is equipped with slider crank crank rocker mechanism ,kinematics of universal joint ,Kinematic gear and gear train experimental set up, governor, cam experiment set up ,motorized gyroscope whirling of shaft ,balancing of rotating masses and vibration system-spring mass system.



9. Heat transfer lab

Major Equipments include:

- Heat transfer through forced convection & Natural convection Apparatus.
- Stefan Boltzmann Apparatus, Emissivity Measurement Apparatus.
- Heat transfer through Composite cylinders apparatus / Lagged pipe.
- Thermal Conductivity of Metal bar apparatus.
- P.F/C.F heat exchanger apparatus





10. Production Technology Lab



11. Measurement System Lab



12. Engineering Metallurgy Lab



INFRASTRUCTURE

Class Room/Hall/Lab	Mechanical Number
Tutorial Room UG	009
PG Classroom	202
Seminar Hall	W001
X Category	W002
Laboratories	1. W1062. W0073. W0104. W0095. W0116. W1017. W1128. W1149. W11510. W113
Class Room	1. W1032. W1043. W1064. W1105. W109

About Courses@Mechanical Department

Bachelor of Engineering B.E – U.G	Degree	Bachelor of Engineering - Mechanical Engineering
	Duration	4 Year(8 Semesters) (Full time)
	Intake	120 Student per year
	Establishment	Year.2010
Master of Engineering M.E – P.G	Degree	Master of Engineering – CAD/CAM Engineering
	Specialization	M.E CAD/CAM
	Duration	2 Year(4 Semesters) (Full time)
	Intake	16 Student per year
	Establishment	Year.2012

Contacts@Department

To,

Prof.S.R.SHEKOKAR

Head, Department of Mechanical Engineering

Padm. Dr. V. B. Kolte College of Engineering, Malkapur

Dist.: Buldhana, State: Maharashtra,

India 443101

Cell-09011579818

Phone Nos. 072672 26700

Email Id: srshekokar@gmail.com,mech.vbkcoe.mlk@gmail.com

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