

MOM - 2016

Minutes of Meeting

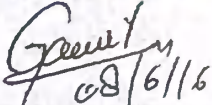
A Meeting of board of studies has been conducted in the Department of Mechanical Engineering with reference to letter no 88/Acad/BOS/2016 dt 01-06-2016 on 08-06-2016 from 0530 PM onwards under the chairmanship of Dr Rajesh Kumar Bhushan, Associate Professor and Head, Department of Mechanical Engineering, IT GGV, Bilaspur along with subject expert Professor N D Mittal, Department of Mechanical Engineering, Maulana Azad National Institute of Technology (MANIT), Bhopal, MP;

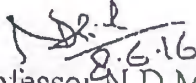
The following members of board of studies along with invited faculty members of department of mechanical and Industrial and production engineering IT GGV; Bilaspur, were also present.

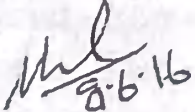
1. Dr M K Singh (Professor & invited faculty member)
2. Mr Prashant Kumar Jangde (Assistant Prof & member of BOS)
3. Mrs Shewta Singh (Assistant Prof & invited faculty member)
4. Mr Atul Sahu (Assistant Prof & invited faculty member)

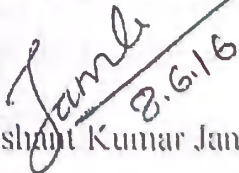
In this meeting the Scheme & Syllabus of B Tech (Mechanical Engineering) & Ph D were also discussed.

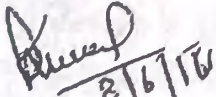
- i. Scheme & Syllabus of B Tech (Mechanical Engineering) 3rd and 4th Semester as per CBCS was approved. This is attached at Annexure A.
- ii. Scheme & Syllabus of Ph D was approved. This is attached at Annexure B.

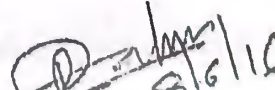

Dr Rajesh Kumar Bhushan,


Professor N D Mittal


Professor M K Singh


Mr Prashant Kumar Jangde


Mrs Shewta Singh


Mr Atul Sahu

2ND YEAR 2016

Department of Mechanical Engineering, School of Engineering & Technology, GGV, Bilaspur (C.G.)

Changes in syllabus of B. Tech. 2th year (III & IV Sem) Mechanical Engineering BoS 08-06-16

The following changes have been incorporated in the course syllabus of B. Tech. 2th Year Mechanical Engineering as per the discussion in BoS meeting held in the department. The complete III and IV semester syllabus along with the evaluation scheme is appended for your reference. Salient aspects of the revisions made are listed below.

- 1. Elective from Humanities Department (Engineering Economics):** The subject has been added as a compulsory subject in 3rd semester from the list of 3rd semester professional elective subjects.
Reasons and Benefits: Various competitive exams take place in after higher. Also this will help students in deciding their career path in various field like MBA, other Management Industries etc.
- 2. Elective from Humanities Department (Business Communication and Presentation Skill):** The subject has been added as a compulsory subject in 4th semester.
Reasons and Benefits: This subject is important from management and business point of you for further studies and improvement of soft skills.

Objectives of the Program

- To produce competent, creative and imaginative engineers.
- To create an intellectual reservoir to meet the growing engineer demands of the nation.
- To inculcate in the student concepts and intellectual skills, courage and integrity.
- To help the graduates to make their way in the society with proper scientific and technical knowledge in mechanical engineering.
- To help the graduates in design and analysis of mechanical systems with strong fundamentals and methods of synthesis.

Learning Outcomes

- Ability to apply knowledge of mechanical engineering fundamentals for solving problems.
- Ability to design and develop mechanical components and processes to meet desired needs considering various aspects.
- Ability to understand and investigate complex mechanical engineering problems experimentally.
- Ability to develop sustainable solutions and understand their impact on society and environment.
- 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 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.



**INSTITUTE OF TECHNOLOGY
GURU GHASIDAS VISHWAVIDHALAYA**

(A CENTRAL UNIVERSITY ESTABLISHED BY THE CENTRAL UNIVERSITY ORDINANCE 2009, NO: 3 OF 2009)

DEPARTMENT OF MECHANICAL ENGINEERING
STUDY & EVALUATION SCHEME
W.E.F. SESSION 2016-2017

Year: B.Tech. II year

SEMESTER-III

S. No.	Course No.	SUBJECT	PERIODS			EVALUATION SCHEME			CREDITS
			L	T	P	INTERNAL ASSESSMENT	ESE	SUB-TOTAL	
1.	ME3THS03	Elective from Humanity Science	3	0	0	40	60	100	3
2.	ME3TBS05	Statistical Methods	3	1	0	40	60	100	4
3.	ME3TES07	Mechanics of Solid-I	3	1	0	40	60	100	4
4.	ME3TES08	Material Science & Metallurgy	3	0	0	40	60	100	3
5.	ME3TPC01	Kinematics of Machine	3	0	0	40	60	100	3
6.	ME3TPC02	Applied Thermodynamics	3	0	0	40	60	100	3
Total			18	02	0	240	360	600	20
PRACTICALS									
1.	ME3LPC01	Kinematics of Machine Lab	-	-	03	45	30	75	2
2.		Mechanics of Solid-I Lab	-	-	03	45	30	75	2
Total					06	90	60	150	04

Total Credits: 24

Total Contact Hour: 26

Total Marks: 750

***INTERNAL ASSESSMENT- One Class Test of 10 Marks, Mid Semester Examination of 20 Marks, Teacher Assessment (Attendance/Assignment) of 10 Marks L-LECTURE, T-TUTORIAL, P-PRACTICAL, CT-CLASS TEST, E.S.E –END SEMESTER EXAMINATION.**

Electives from Humanity Science (HS 3)
ME3THS03
ME3THS31 Engineering Economics
ME3THS32 Work study and ergonomics
ME3THS33 Employee Relations

(ME3THS31) ENGINEERING ECONOMICS (ELECTIVE)

Unit 1: Basic Concepts and Definitions, Methodology of Economics, Demand and Supply – elasticity, Theory of the Firm and Market Structure, Price and output determinations in different types of market

Unit 2: Public Sector Economics – Welfare economics, Central and commercial banks and their functions, Industrial policies, theory of localization, Weber & Sargent Florence theory, investment analysis-NPV, ROI, IRR, Payback period, SWOT analysis.

Unit 3: Monetary and Fiscal Policy; Tools, impact on the economy, Inflation, Business Cycle, Cash Flow-2,3,4 Model.

Unit 4: Business Forecasting – Elementary techniques. Cost and Revenue Analysis, Capital Budget, Break Even Analysis.

Unit 5: Indian economy; Urbanization, Unemployment–Poverty, Regional Disparities, Unorganized Sectors- Roll of Plans, Reforms-Post Independent period.

Text Books:

1. Mankiw Gregory N.(2002), Principles of Economics, Thompson Asia
2. V. Mote, S. Paul, G. Gupta(2004), Managerial Economics, Tata McGraw Hill
3. Misra, S.K. and Puri (2009), Indian Economy, Himalaya
4. Pareek Saroj (2003), Textbook of Business Economics, Sunrise Publishers

Reference Books:

1. Kapila U. Indian economy since Independence. Academic Foundation, New Delhi
2. Misra, S. K. and Puri V. K. Indian Economy — Its Development Experience. Himalaya Publishing House, Mumbai
3. Dutt R. and Sundharam K. P. M. Indian Economy. S. Chand & Company Ltd., New Delhi.
4. Mathur R. Indian Economic Policy and Reform. RBSA Publisher, Jaipur
5. Jalan B. Indian Economic Policy. Penguin Books Ltd
6. Government of India, Economic Survey (Annual), Economic Division, Ministry of Finance, New Delhi.



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DEPARTMENT OF MECHANICAL ENGINEERING

STUDY & EVALUATION SCHEME

W.E.F. SESSION 2016-2017

Year: B.Tech. II year

SEMESTER-IV

S. No.	Course No.	SUBJECT	PERIODS			EVALUATION SCHEME			CREDITS
			L	T	P	INTERNAL ASSESSMENT	ESE	SUB-TOTAL	
1.	ME4TPE01	Professional Elective	3	0	0	40	60	100	3
2	ME4TPC03	Fluid Mechanics	3	0	0	40	60	100	3
3	ME4TPC04	Manufacturing Science-I	3	0	0	40	60	100	3
4	ME4TPC05	Electrical Machine	3	1	0	40	60	100	4
5	ME4TPC06	Machine Drawing	3	0	0	40	60	100	3
6	ME4TBS06	Numerical Analysis & Computer Programming	3	1	0	40	60	100	4
Total			18	02		240	360	600	20
PRACTICALS									
7.	ME4LPC03	Fluid Mechanics	-	-	03	45	30	75	2
8.	ME4LPC05	Electrical Machine	-	-	03	45	30	75	2
Total					06	90	60	150	04

Total Credits: 24

Total Contact Hour: 26

Total Marks: 750

***INTERNAL ASSESSMENT- One Class Test of 10 Marks, Mid Semester Examination of 20 Marks, Teacher Assessment(Attendance/Assignment)of 10 Marks L-LECTURE, T-TUTORIAL, P-PRACTICAL,CT-CLASS TEST, E.S.E –END SEMESTER EXAMINATION.**

Professional Elective –PE01

ME4T PE01

ME4T PE11 Business Communication and Presentation Skill
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ME4T PE12 Renewable energy system and management

ME4T PE13 Energy and environment management
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ME4T PE11-BUSINESS COMMUNICATION AND PRESENTATION SKILL (Elective)

Unit I

Business communication covering, Role of communication in information age; concept and meaning of communication; skills necessary for technical communication; Communications in a technical organization; Barriers to the process of communication and so on

Unit II

Style and organization in technical communication covering, Listening, speaking, reading and writing as skills; Objectivity, clarity, precision as defining features of technical communication; Various types of business writing: Letters, reports, notes, memos; Language and format of various types of business letters; Language and style of reports; Report writing strategies; Analysis of a sample report

Unit III

Communication and personality development covering, Psychological aspects of communication, cognition as a part of communication; Emotional Intelligence; Politeness and Etiquette in communication; Cultural factors that influence communication; Mannerisms to be avoided in communication; Language and persuasion; Language and conflict resolution;

Unit IV

Language Laboratory emphasizing Listening and comprehension skills; Reading Skills; Sound Structure of English and intonation patterns;

Unit V

Oral Presentation and professional speaking covering, Basics of English pronunciation; Elements of effective presentation; Body Language and use of voice during presentation; Connecting with the audience during presentation; Projecting a positive image while speaking; Planning and preparing a model presentation; Organizing the presentation to suit the audience and context; Basics of public speaking; Preparing for a speech;

Text books:

1. Fred Luthans, Organizational Behaviour, McGraw Hill
2. Lesikar and petit, Report writing for Business
3. M. Ashraf Rizvi, Effective Technical Communication, McGraw Hill
4. Wallace and masters, Personal Development for Life and Work, Thomson Learning

Reference books :

1. Farhathullah, T. M. Communication skills for Technical Students
2. Michael Muckian, John Woods, The Business letters Handbook
3. Herta A. Murphy, Effective Business Communication
4. *MLA Handbook for Writers of Research Papers*