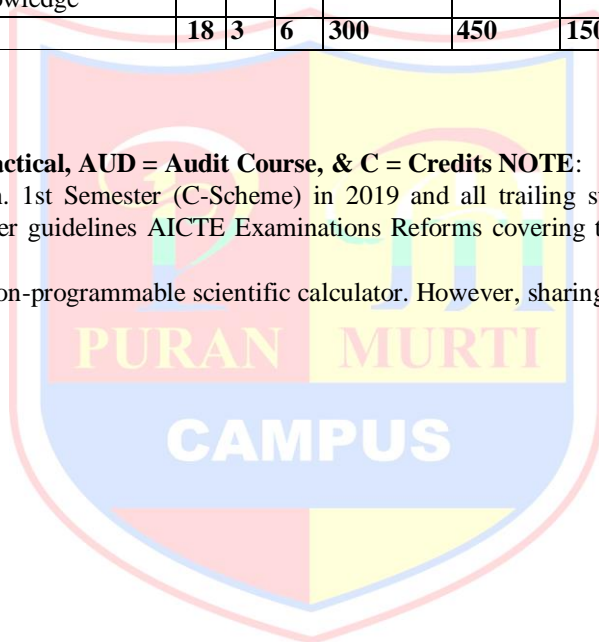


Deenbandhu Chhotu Ram University of Science & Technology, Murthal (Sonapat)
Scheme of Studies & Examinations under Choice Based Credit System
Programme: B. Tech. in Mechanical Engineering; Year – 3rd (Semester – V); Session: 2020-21

S. No.	Course Code	Course Title	Teaching Schedule			Marks of Class Work	Examination Marks		Total	Credit	Duration of Exam
			L	T	P		Theory	Practical			
1	ME 301C	Heat Transfer	3	1	0	25	75	-	100	4	3
2	ME 303C	Solid Mechanics	3	1	0	25	75	-	100	4	3
3	ME 305C	Manufacturing Processes	3	0	0	25	75	-	100	3	3
4	ME 307C	Theory of Machines	3	1	0	25	75	-	100	4	3
5	ME 309C	Total Quality Management	3	0	0	25	75	-	100	3	3
6	ME 311C	Laboratory - II (Thermal)	0	0	2	25	-	75	100	1	3
7	ME 313C	Laboratory - III (Design)	0	0	2	25	-	75	100	1	3
8	ME 315C	Professional Training (Level II)	0	0	2	100	-	-	100	1	
9	HUM 301C	Essence of Indian Traditional Knowledge	3	0	0	25	75	-	100	0	3
Total			18	3	6	300	450	150	900	21	

L = Lecture, T = Tutorial, P = Practical, AUD = Audit Course, & C = Credits NOTE:

- For student admitted in B. Tech. 1st Semester (C-Scheme) in 2019 and all trailing students, Examinations and evaluation of students shall be conducted as per guidelines AICTE Examinations Reforms covering the entire syllabus. The students shall be made aware about the reforms.
- Students will be allowed to use non-programmable scientific calculator. However, sharing of calculators will not be permitted in the examination



Subject: HEAT TRANSFER
Subject Code: ME301C

Study Scheme				Evaluation Scheme			Total Marks
Lectures per week				Internal Assessment	External Assessment (Examination)		
L	T	P	Credits	Max. Marks	Max. Marks	Exam Duration	
3	1	-	4	25	75	3 hours	100

UNIT I Basics concepts and Steady State Heat Conduction:

- Topic No 1 Thermodynamics Vs Heat transfer,
- Topic No 2 Modes of heat transfer,
- Topic No 3 Thermal conductivity Vs diffusivity,
- Topic No 4 Combined heat transfer.
- Topic No 5 Steady State Heat Conduction: Introduction,
- Topic No 6 1-D heat conduction through a plane wall,
- Topic No 7 Long hollow cylinder,
- Topic No 8 Hemisphere,
- Topic No 9 Conduction equation in Cartesian,
- Topic No 10 Polar and spherical co-ordinate systems,
- Topic No 11 Concept of conduction and film resistances,
- Topic No 12 Critical insulation thickness,

UNIT II Steady State Conduction with Heat Generation

- Topic No 13 1-D heat conduction with heat source
- Topic No 14 Extended surfaces (fins),
- Topic No 15 Fin effectiveness,
- Topic No 16 Biot number,
- Topic No 17 Heat transfer through fins, Numericals
- Topic No 18 Transient Heat Conduction:
- Topic No 19 Lumped capacitance,
- Topic No 20 Semi-infinite and infinite solid conduction modes for walls, cylinders, spheres;
- Topic No 21 Chart solution (Heissler),
- Topic No 22 Relaxation Method, Numericals.

UNIT III Convection and Thermal Radiation

- Topic No 23 Heat convection,
- Topic No 24 Basic equations,
- Topic No 25 Boundary layers- Forced convection,
- Topic No 26 External and internal flows-
- Topic No 27 Natural convective heat transfer- Dimensionless parameters for forced and free convection heat transfer
- Topic No 28 Correlations for forced and free convection-
- Topic No 29 Approximate solutions to laminar boundary layer equations (momentum and energy) for both internal and external flow-
- Topic No 30 Estimating heat transfer rates in laminar and turbulent flow situations using appropriate correlations for free and forced convection, Numericals.
- Topic No 31 Thermal Radiation: Interaction of radiation with materials,
- Topic No 32 Definitions of radiative properties,
- Topic No 33 Stefan Boltzmann's law,
- Topic No 34 Black and gray body radiation,
- Topic No 35 Calculation of radiation heat transfer between surfaces using radiative properties,
- Topic No 36 View factors and the radiosity method.
- Topic No 37 Radiation shields,
- Topic No 38 Applications to two and three surface enclosures,
- Topic No 39 Introduction to participating media,

UNIT IV Heat Exchangers and Heat Transfer with phase change

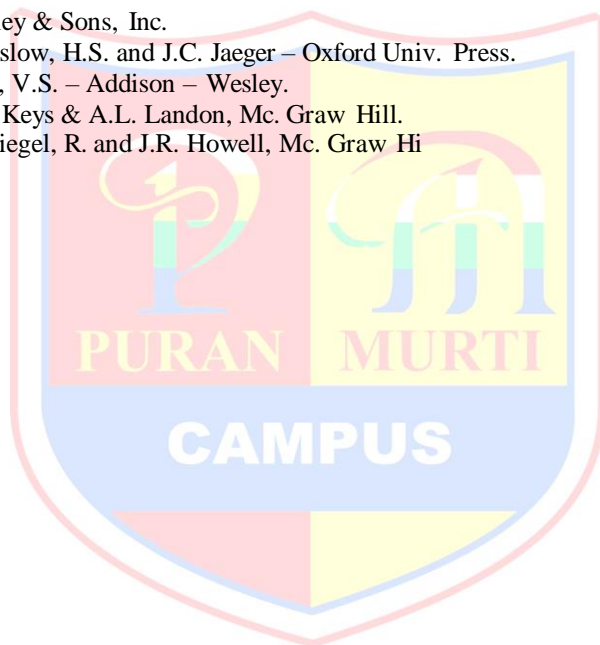
Topic No 40 Types of heat exchanges,
Topic No 41 Performance variables,
Topic No 42 Analysis and design of heat exchangers using both LMTD and ϵ -NTU methods,
Topic No 43 Pressure drop, Numericals.
Topic No 44 Heat Transfer with phase change:
Topic No 45 Laminar film condensation on a vertical plate,
Topic No 46 Drop-wise condensation,
Topic No 47 Pool boiling regimes,
Topic No 48 Nucleate boiling and critical heat flux,
Topic No 49 Film boiling and minimum heat flux,
Topic No 50 Flow boiling.
Topic No 51 Introduction to Mass transfer.

Text Books :

1. Heat Transfer – J.P. Holman, John Wiley & Sons, New York.
2. Fundamentals of Heat & Mass Transfer – Incropera, F.P. & Dewill, D.P – John Wiley New York.
3. Heat transfer – P.K. Nag, McGraw Hill

Reference Books :

1. Heat Transfer – A. Bejan, John Wiley & Sons, Inc.
2. Conduction of Heat in Solids – Carslow, H.S. and J.C. Jaeger – Oxford Univ. Press.
3. Conduction Heat Transfer – Arpasi, V.S. – Addison – Wesley.
4. Compact Heat Exchangers – W.M. Keys & A.L. Landon, Mc. Graw Hill.
Thermal Radiation Heat Transfer – Siegel, R. and J.R. Howell, Mc. Graw Hill



Subject: SOLID MECHANICS
Subject Code: ME303C

Study Scheme				Evaluation Scheme			Total Marks
Lectures per week				Internal Assessment	External Assessment (Examination)		
L	T	P	Credits	Max. Marks	Max. Marks	Exam Duration	
3	1	-	4	25	75	3 hours	100

UNIT I

Topic No 1 Introduction to Cartesian tensors,
 Topic No 2 Strains: Concept of strain,
 Topic No 3 Derivation of small strain tensor and compatibility,
 Topic No 4 Stress: Derivation of Cauchy relations and equilibrium and symmetry equations,
 Topic No 5 Principal stresses and directions

UNIT II

Topic No 6 Constitutive equations:
 Topic No 7 Generalized Hooke's law,
 Topic No 8 Linear elasticity,
 Topic No 9 Material symmetry;
 Topic No 10 Boundary Value Problems:
 Topic No 11 Concepts of uniqueness and superposition.

UNIT III

Topic No 12 Plane stress and plane strain problems,
 Topic No 13 Introduction to governing equations in cylindrical and spherical coordinates,
 Topic No 14 Axisymmetric problems.

UNIT IV

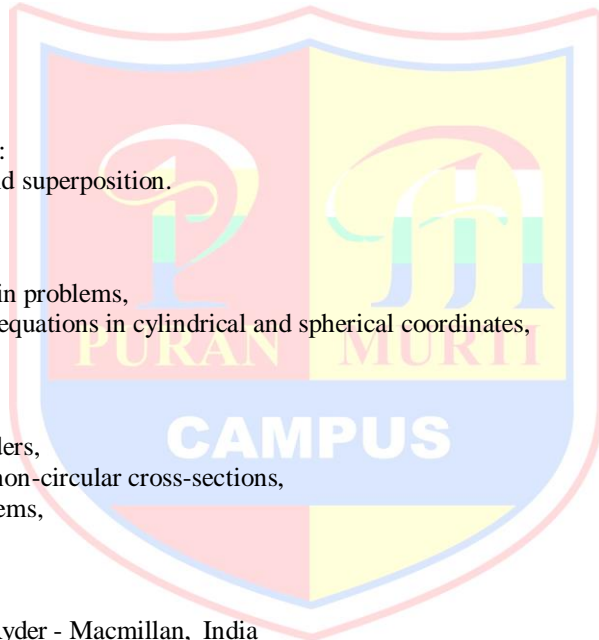
Topic No 15 Application to thick cylinders,
 Topic No 16 Rotating discs, torsion of non-circular cross-sections,
 Topic No 17 Stress concentration problems,
 Topic No 18 Thermo-elasticity,
 Topic No 19 2-d contact problems.

TEXT BOOKS:

1. Strength of Materials – G. H. Ryder - Macmillan, India
2. Strength of Materials– Andrew Pytel and Fredinand L. Singer, Addison – Wesley
3. Continuum Mechanics for Engineers - G. T. Mase, R. E. Smelser and G. E. Mase, , Third Edition, CRC Press, 2004.
4. Foundations of Solid Mechanics - Y. C. Fung, , Prentice Hall International, 1965.

REFERENCE BOOKS:

1. Strength of Materials – Popov, PHI, New Delhi.
2. Mechanics of Materials - Timoshenko, S.P., and Gere, J.M., 2nd Ed., CBS Publishers 2002
3. An Introduction to the Mechanics of Solids - Crandall, S.H., Dahl, N.C., and Lardner, T.J., Tata McGr



Subject: MANUFACTURING PROCESSES
Subject Code: ME 305C

Study Scheme				Evaluation Scheme			Total Marks
Lectures per week				Internal Assessment	External Assessment (Examination)		
L	T	P	Credits	Max. Marks	Max. Marks	Exam Duration	
3	-	-	3	25	75	3 hours	100

UNIT – I: Conventional Manufacturing Processes:

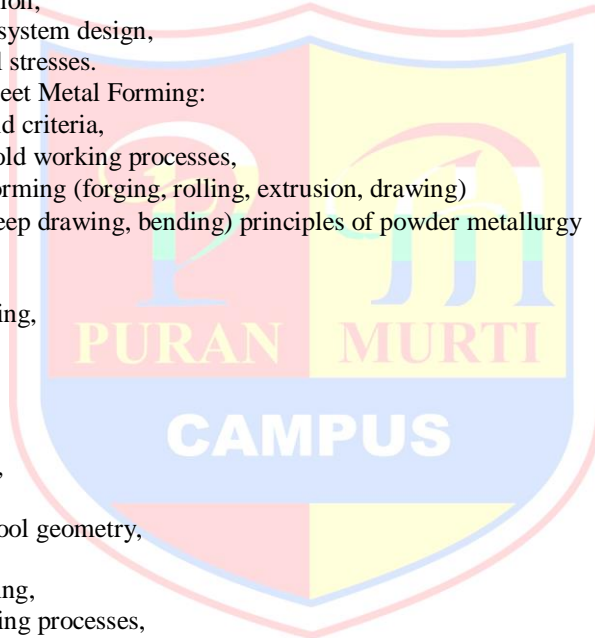
Topic No 1 Casting and molding,
 Topic No 2 Metal casting processes and equipment,
 Topic No 3 Design of patterns,
 Topic No 4 Moulds and cores;
 Topic No 5 Heat transfer and solidification,
 Topic No 6 Shrinkage, riser and gating system design,
 Topic No 7 Casting defects and residual stresses.
 Topic No 8 Introduction to Bulk and Sheet Metal Forming:
 Topic No 9 Plastic deformation and yield criteria,
 Topic No10 Fundamentals of hot and cold working processes,
 Topic No11 Load estimation for bulk forming (forging, rolling, extrusion, drawing)
 Topic No12 Sheet forming (shearing, deep drawing, bending) principles of powder metallurgy

UNIT – II: Metal Cutting:

Topic No13 Single and multi-point cutting,
 Topic No14 Orthogonal cutting,
 Topic No15 Various force components,
 Topic No16 Chip formation,
 Topic No17 Tool wear and tool life,
 Topic No18 Surface finish and integrity,
 Topic No19 Machinability,
 Topic No20 cutting tool materials and tool geometry,
 Topic No21 coating, cutting fluids.
 Topic No22 Process description of turning,
 Topic No23 Drilling, milling and finishing processes,
 Topic No24 Economics of machining,
 Topic No25 Additive manufacturing,
 Topic No26 Brief description of rapid prototyping and rapid tooling

UNIT – III: Joining/Fastening Processes:

Topic No 27 Solid and liquid state joining processes;
 Topic No 28 Physics of welding, brazing and soldering;
 Topic No 29 Design considerations in welding,
 Topic No 30 Welding defects and testing, adhesive bonding.
 Topic No 31 Unconventional Machining Processes: Principles, process parameters,
 Topic No 32 Applications and Limitations for the following Unconventional Machining Processes:
 Topic No 33 Abrasive Jet Machining,
 Topic No 34 Water Jet Machining,
 Topic No 35 Abrasive Water Jet Machining,
 Topic No 36 Ultrasonic Machining.



UNIT – IV

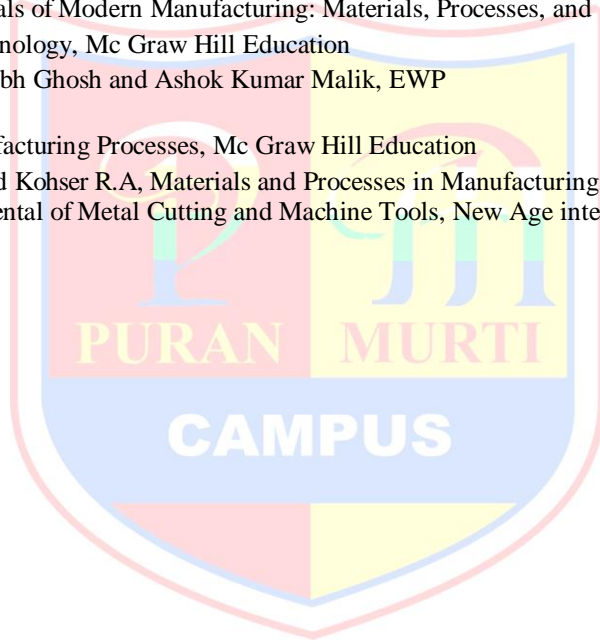
- Topic No 37 Electrical discharge machining(EDM),
- Topic No 38 Principle and processes parameters,
- Topic No 39 MRR, surface finish, tool wear,
- Topic No 40 Dielectric, power and control circuits,
- Topic No 41 Wire EDM;
- Topic No 42 Electron Beam Machining (EBM).
- Topic No43 Electro Chemical Machining(ECM)
- Topic No44 Principle and process parameters,
- Topic No45 Etchant & Maskant,
- Topic No46 MRR and surface finish,
- Topic No47 Laser Beam Machining (LBM),
- Topic No48 Plasma Arc Machining (PAM).

TEXT BOOK:

1. Kalpakjian and Schmid, Manufacturing processes for engineering materials (5th Edition)-Pearson India
2. Mikell P. Groover, Fundamentals of Modern Manufacturing: Materials, Processes, and Systems
3. P.N. Rao, Manufacturing Technology, Mc Graw Hill Education
4. Manufacturing Science, Amitabh Ghosh and Ashok Kumar Malik, EWP

REFERENCE BOOKS:

1. Schey J, Introduction to Manufacturing Processes, Mc Graw Hill Education
2. DeGarmo E. P., Black J. T. and Kohser R.A, Materials and Processes in Manufacturing, John Wiley & Sons
- BL Juneja, GS Sekhon, Fundamental of Metal Cutting and Machine Tools, New Age international publisher



Subject: THEORY OF MACHINES
Subject Code: ME307C

Study Scheme				Evaluation Scheme			Total Marks
Lectures per week				Internal Assessment	External Assessment (Examination)		
L	T	P	Credits	Max. Marks	Max. Marks	Exam Duration	
3	1	-	4	25	75	3 hours	100

UNIT I

Topic No 1 Links-types,
 Topic No 2 Kinematics pairs-classification,
 Topic No 3 Constraints-types,
 Topic No4 Kinematic chains,
 Topic No5 Mechanism and machines,
 Topic No6 Degree of freedom, mobility-
 Topic No7 Grashof's law,
 Topic No8 Kinematic inversions of four bar chain and slider crank chains,
 Topic No9 Limit positions of four-bar mechanism,
 Topic No 10 Transmission angle in four bar mechanism and slider crank mechanism,
 Topic No 11 Synthesis for motion and path generation.
 Topic No 12 Velocity and Acceleration in Mechanism:
 Topic No 13 Velocity and acceleration analysis of simple mechanisms,
 Topic No 14 Graphical velocity analysis using instantaneous centers,
 Topic No 15 Coriolis component of acceleration,

UNIT II: Cams and Followers:

Topic No16 Classification of cams and followers,
 Topic No17 Terminology, Cam profile by graphical methods with knife edge and radial roller, Follower for Uniform velocity,
 Topic No18 Parabolic, Simple harmonic and Cycloidal motions, Gears and Gear Trains:
 Topic No19 Classification & Terminology, Law of gearing
 Topic No 20 Tooth Profile, Length of path of contact
 Topic No21 Contact ratio, Interference & Under cutting in Involute gear teeth
 Topic No22 Gear Trains- Synthesis of simple, Compound and Epicyclic gear train

UNIT III: Balancing of Rotating Components:

Topic No 23 Balancing of rotating masses,
 Topic No 24 Graphical and analytical methods, Balancing of Reciprocating Parts:
 Topic No25 Primary and secondary forces and couples
 Topic No26 Partial balancing, Effects of partial balancing
 Topic No27 Balancing of single cylinder, multi cylinder; inline and radial engines

UNIT IV: Gyroscopes –

Topic No28 Gyroscopic couple and their effects on Aircrafts and Ship during steering
 Topic No29 Rolling and pitching
 Topic No30 Stability of two wheel and four wheel vehicles is moving on curved paths, Problems

Governors:

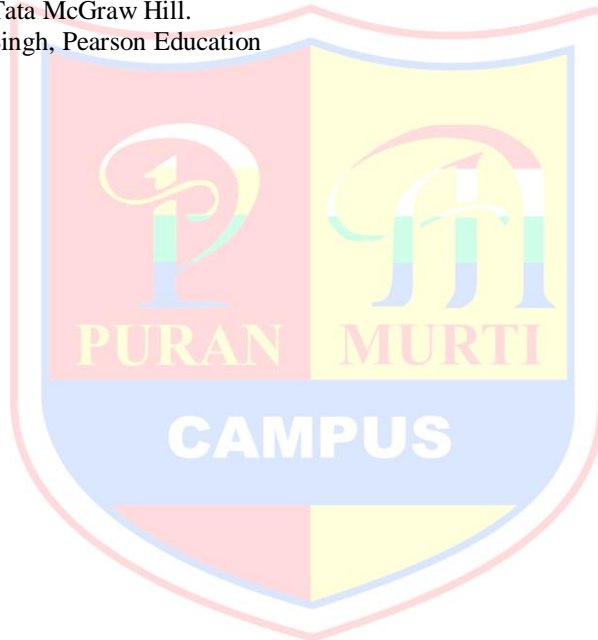
- Topic No31 Terminology, Centrifugal governors-Watt, Porter
- Topic No32 Proell and Hartnell governor
- Topic No33 Controlling force diagrams

TEXT BOOKS:

1. Theory of Machines - Thomas Bevan, CBS Publishers & Distributors
2. Mechanisms of Machines - Cleghorn W.L., Oxford University Press
3. Kinematics and Dynamics of Machinery, Robert L. Norton, Tata McGrawHill

REFERENCE BOOKS:

1. Theory of Mechanisms and Machines- Ghosh A. and Mallick A.K., Affiliated East- West Pvt. Ltd, New Delhi,
2. Mechanism and Machine Theory: J.S. Rao and R.V. Duddipati Second Edition New age International
3. Theory of Machines and Mechanisms: Joseph Edward Shigley and John Joseph Uicker, Jr. Second Edition, MGH, New York
4. Theory and Machines: S.S. Rattan, Tata McGraw Hill.
5. Kinematics of Machines-Dr. Sadhu Singh, Pearson Education



Subject: TOTAL QUALITY MANAGEMENT
Subject Code: ME309C

Study Scheme				Evaluation Scheme			Total Marks
Lectures per week				Internal Assessment	External Assessment (Examination)		
L	T	P	Credits	Max. Marks	Max. Marks	Exam Duration	
3	1	-	4	25	75	3 hours	100

UNIT – I: Philosophies and fundamentals

- Topic No1 Evolution of quality management philosophy
- Topic No2 Definitions of quality and importance in industry
- Topic No3 Concept and scope of total quality control
- Topic No4 Product quality and service quality
- Topic No5 Contributions of Deming, Juran and Crosby
- Topic No6 Quality statements, customer focus
- Topic No7 Customer orientation & satisfaction, customer complaints
- Topic No8 Customer retention, Quality costs and economics of quality
- Topic No9 Quality assurance and ISO 9000 quality system standards
- Topic No10 Quality systems-elements
- Topic No11 Documentation, quality auditing
- Topic No12 ISO 14000-concepts, requirements and benefits

UNIT- II: Tools and Methods of quality improvement

- Topic No13 Tools for quality: Introduction, fundamental seven tools for quality - histogram
- Topic No14 Pareto chart, cause and effect diagram
- Topic No15 Stratification analysis, check sheet, control charts etc.,
- Topic No16 Introduction to new management tools of quality
- Topic No17 Total Quality Management (TQM): basic concepts
- Topic No18 TQM frame work, TQM principles/elements like leadership, strategic quality planning
- Topic No19 Employee involvement, motivation, empowerment, team work, quality circles, recognition and reward
- Topic No20 Performance appraisal, continuous improvement, PDCE cycle
- Topic No21 5S, supplier partnership, supplier rating and selection etc
- Topic No22 Benefits, implementation aspects and barriers to TQM.

UNIT III: Statistical Quality Control

- Topic No23 Descriptive statistics/basic statistical concepts
- Topic No24 Data collection and presentation
- Topic No25 Measures of central tendency like mean, standard deviation etc
- Topic No26 Probability distributions- types, characteristics and applications in quality
- Topic No27 Introduction to inferential statistic
- Topic No28 Statistical Process Control- concept of variation, control charts-philosophy
- Topic No29 Types; process capability- brief of six sigma and taguchi method
- Topic No30 Acceptance sampling- concept, advantages
- Topic No31 Operating characteristic (OC) curve and its use

UNIT – IV: Advancements in Quality management

Topic No32 Quality function deployment (QFD)

Topic No33 Role of Total Productive Maintenance (TPM)

Topic No34 Just in Time (JIT) and lean manufacturing, Bench marking

Topic No35 Failure mode and effect analysis (FMEA) etc. in quality improvement

Topic No36 Quality in service sector- Introduction, growing role of service industries in economy

Topic No37 Service industries and their characteristics, comparison with manufacturing

Topic No38 A conceptual model for service quality

Topic No39 TQM implementation in manufacturing and service sectors.

TEXT BOOKS:-

- 1) Fundamentals of quality control and improvement by A Mitra, Mcmillan Pub Company
- 2) Managing for Total Quality: N. Logothetis PHI

REFERENCE BOOKS: -

1. Quality Planning and Analysis by J M Juran and Frank M Gryna TMH
2. Besterfield D.H. et al., Total quality Management, 3rd ed., Pearson Education Asia, 2006.
3. Evans J. R. and Lindsay W.M., The management and Control of Quality, 8th ed., first Indian edition, Cengage Learning, 2012.



Subject: Laboratory-II (Thermal)**Subject Code: ME 311C****B. Tech. Semester – V (Mechanical & Aeronautical Engineering)**

L	T	P	Credits
--	--	2	1

Class Work	:	25 Marks
Examination	:	75 Marks
Total	:	100 Marks
Duration of Examination	:	3 Hours

LIST OF EXPERIMENTS:**Unit-I**

1. To determine the thermal conductivity of an insulating powder.
2. To find the effectiveness of a pin fin and plot temperature distribution along its length in a rectangular duct under natural and forced convective condition.
3. To determine the surface heat transfer coefficient for a heated vertical tube under natural convection and plot the variation of local heat transfer coefficient along the length of the tube. Also compare the results with those of the correlation.
4. To measure the emissivity of the gray body (plate) at different temperature and plot the variation of emissivity with surface temperature.
5. To find overall heat transfer coefficient and effectiveness of a heat exchange under parallel and counter flow conditions. Also plot the temperature distribution in both the cases along the length of heat of heat exchanger.
6. To verify the Stefan-Boltzmann constant for thermal radiation.
7. To determine the critical heat flux using two phase heat transfer apparatus.

Unit-II

8. To study the constructional details & working principles of two-stroke & four stroke petrol and diesel engine.
9. To prepare heat balance sheet on multi-cylinder diesel engine and petrol engine.
10. To prepare variable speed performance test of a multi-cylinder/single cylinder petrol engine and diesel engine and prepare the curves (i) BHP, IHP, FHP, vs Speed (ii) Volumetric efficiency & indicated specific fuel consumption vs speed.
11. To find FHP of a multi-cylinder diesel engine/petrol engine by Willian'sline method & by motoring method.
12. To perform constant speed performance test on a single cylinder/multi-cylinder diesel engine & draw curves of (i) BHP vs fuel rate, air rate and A/F ratio and (ii) BHP vs mep, Mech efficiency & SFC.

Unit-III

13. To study the Mechanical compression cycle based heat pump and determine its Carnot, theoretical and actual C.O.P. Draw the cycle on P-H and T-S diagrams.
14. To study the various air conditioning psychrometric processes like cooling, heating, cooling and dehumidification, heating and humidification etc using AC tutor and plot them on Psychrometric chart.
15. To study the aqua- ammonia absorption system and find its COP

Note:

1. **At least Ten experiments are to be performed in the Semester selecting at least 4 from Unit I; 3 from Unit II; and 2 from Unit III**

Subject Laboratory- III (Design)
Subject Code: ME 313C
B. Tech. Semester – V (Mechanical Engineering)

L	T	P	Credits
-	-	2	1

Class Work	:	25 Marks
Examination	:	75 Marks
Total	:	100 Marks
Duration of Examination	:	3 Hours

LIST OF EXPERIMENTS:

1. To study various types of Kinematic links, pairs, chains and Mechanisms.
2. To study inversions of 4 Bar Mechanisms, Single and Double slider crank mechanisms.
3. To study various type of cam and follower arrangements.
4. To study various types of gears: Spur, Helical, Double helical, Spiral, Bevel gear, Hypoid
5. To study various types of gear trains: Simple, Compound and Epicyclic
6. To perform experiment on Watt Governors to prepare performance characteristic curves.
7. To perform experiment on Porter Governors to prepare performance characteristic curves.
8. To perform experiment on Proell Governor to prepare performance characteristic curves.
9. To perform experiment on Hartnell Governor to prepare performance characteristic curves.
10. To find experimentally the Gyroscopic couple on motorized gyroscope and compare with applied couple.
11. To perform the experiment for static balancing on Static Balancing Machine.
12. To perform the experiment for dynamic balancing on Dynamic Balancing machine.

Note:

1. Total Ten experiments are to be performed in the Semester.
2. At least eight experiments should be performed from the above list. Remaining two experiments may either be performed from the above list or designed & set by the concerned institute as per the scope of the syllabus.

Subject: Professional Training (Level – II)

Subject Code: ME315C
B. Tech. Semester – V (Mechanical Engineering)

Class Work : 100 Marks

Duration of Training

4-6 weeks

Total : 100 Marks

Professional Training is aimed to provide practical experience to the interns in his/her field or

Discipline to achieve the following objectives:

To expose Technical students to the industrial environment, which cannot be simulated in the classroom and

Hence, creating competent professionals in the industry.

- To Provide possible opportunities to learn, understand and sharpen the real time technical / managerial skills required in the job.
- To gain experience in writing Technical reports/projects.
- To expose students to the engineer's responsibilities and ethics.
- To familiarize with various materials, processes, products and their applications along with the relevant aspects of quality control.
- To promote academic, professional and/or personal development.
- To expose the students to future employers.
- To understand the social, economic and administrative considerations that influence the working environment of industrial organizations
- To understand the psychology of the workers and their habits, attitudes and approach to problem solving.

At the end of 4th semester each student would undergo four to six weeks Professional Training in an Industry/ Institute/ Professional / Organization/ Research Laboratory etc. with the prior approval of the Training and Placement Officer of the University and submit in the department a typed report along with a certificate from the organization.

Every student is required to submit a typed report in a prescribed format. The report should contain the activities done by him. The report should also contain the student's Diary / Daily log. The students should record day-to-day account of the observations, impressions, information gathered and suggestions given, if any in the training diary. It should contain the sketches & drawings related to the observations made by the students. The diary should also be shown to the Faculty Mentor visiting the industry from time to time.

The evaluation of Professional Training/Project will be done by a departmental committee in the 5th semester as per time table allocated by the department. The evaluation committee will consist of teachers from different specialization to be constituted by the Chairperson of the department. The student will interact with the committee through presentation to demonstrate his/ her learning. Evaluation will be done on the basis of the following criteria/weightage:

- Regularity in maintenance of the diary (20%)
- Adequacy and quality of report (40%)
- Presentation (Quality of content /Effectiveness of presentation/Communication skill) 40%

Subject: Essence of Indian Traditional Knowledge

Subject Code: HUM 301C

B.Tech. V Semester (Common for All Branches)

Mandatory Course

L T P
3 0 0

External Assessment: 75 Marks

Internal Assessment: 25 Total

Marks:100Marks

Duration of Exam: 3 hrs

COURSE OBJECTIVE

- To introduce students to the basics of Indian knowledge traditions and forms
- To impart basic principles of thought process, reasoning and inferencing

UNIT I :Indian Knowledge Traditions and Processes: An Overview

Topic No. 1 Vedic Tradition

Topic No. 2 Epical Tradition,

Topic No. 3 Sutra Tradition,

Topic No. 4 Scholastic Tradition

UNIT II: Vedic and Upnishadic Tradition

Topic No.5 Vedic Mantras:

Topic No. 6 Hymn of Creation,

Topic No. 7 To Vāk Upnishadic

Topic No. 8 Narraatives:

Topic No. 9 The Story of Nachiketa

UNIT III: Epical Insights

Topic No. 10 Gyanmarg (The Yoga of Wisdom)

UNIT IV: Folk Wisdom

Topic No. 11 Folk Tales as knowledge: “The Blind Man and an Elephant”#

Topic No. 12 “The Goat who saved the Priest”, “ Buried Treasure” ,

Topic No. 13“ Little Prince, No Father”, “ Demons in the Desert”##

Topic No. 14“The Story of Meddlesome Monkey” ,

Topic No. 15“ The Story of the Lion and the Rabbit”

Topic No. 16“The Story of Three Fishes”

Topic No. 17 ”The Story of Dharmabudhi amnd Papabuddhi”###

Topic No. 18 Haryanvi Ragini as Moral lesson: Raja Harishchandra

UNIT