

## ESE-2018 Conventional Test Schedule, Mechanical Engineering

Date	Торіс
11th Mar 2018	<b>N.T.</b> ∶ TH-1, TH-2, HT-1, RAC-1, MS-1, MS-2
	R.T.:
25th Mar 2018	<b>N.T.</b> ∶ FMM-1, RAC-2, IE-2, RSE-1
	<b>R.T.</b> ∶ TH-2, MS-1, HT-1
01st Apr 2018	N.T.: MECH-1, MECH-2, HT-2, RE-1
	R.T.: RAC-1, RAC-2, MS-2
08th Apr 2018	<b>N.T.</b> : FMM-2, PPE-1,RSE-2
	R.T.: HT-1, HT-2, TH-1, FMM-1, IE-2
15th Apr 2018	N.T.: ICE-1,ToM-2, MR-1
	R.T.: FMM-2, RSE-1, RSE-2, PPE-1
22nd Apr 2018	N.T.: ToM-1, MR-2, PROD-1
	R.T.: MS-1, MECH-1, MECH-2,TH-1
29th Apr 2018	<b>N.T.</b> : IE-1, PPE-2, FMM-3,
	R.T.: PPE-1, MS-2, HT-1, PROD-1,ToM-1, ICE-1
06th May 2018	N.T.: PPE-3, PROD-2
	R.T.: RAC-1, RAC-2, RE-1, IE-1, MR-1, MECH-1
13th May 2018	N.T.: ToM-3, ICE-2
	<b>R.T.</b> : MR-2, RSE-1, RSE-2, HT-1, HT-2, FMM-2
20th May 2018	<b>N.T.</b> : RE-2, MD-1
	<b>R.T.</b> : PPE-1, PPE-2, FMM-3, ToM-2, ToM-3
27th May 2018	N.T.: Mech-3, MD-2
	<b>R.T.</b> : FMM-1, FMM-2, PROD-1, PROD-2, MECH-1, ICE-2, MD-1
03rd Jun 2018	Full Length-1 (Test Paper-1 + Test Paper-2)
10th Jun 2018	Full Length-2 (Test Paper-1 + Test Paper-2)
17th Jun 2018	Full Length-3 (Test Paper-1 + Test Paper-2)

Test Type	Timing
Conventional Test	10:00 A.M. to 1:00 P.M.
Conventional Full Length Test Paper-1	10:00 A.M. to 1:00 P.M.
Conventional Full Length Test Paper-2	02:00 P.M. to 5:00 P.M.

Note: The timing of the test may change on certain dates. Prior information will be given in this regard.

\*N.T.: New Topic. \*R.T.: Revision Topic

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Heat Transfer  Heat Transfer  Steady and unsteady heat conduction, Fins, Radiative heat transfer.  IC Engines  St and Ci Engines, Engine Systems and Components, Fuels.  Steady and unsteady heat conduction, Fins, Radiative heat transfer.  IC Engines  St and Ci Engines, Engine Systems and Components, Fuels.  Stand Ci Engines, Engine Systems and Components, Fuels.  Refrigeration Air Conditioning  RAC-1  Refrigeration Air Conditioning  FMM-1  Saccopesses, Chert Pypes of refingeration, Refrigerants, Compressors, Other types of refingeration systems like Vapour Absorption, Vapour is Hermon electrica and Variet subser- refrigeration and Heat pump.  FMM-1  Basic Concepts and Properties of Pluids, Marchanics and Machinery  PPE-1  Power Plant Engineering  Steam and Gas Turbines, Rankine and Breyton cycles with regeneration and refreshments.  PPE-1  PPE-1  PPE-2  Solar Radiation, Solar Thormal Energy solars, Applications - Public pit and Fam. Jul Engineering  Mach-1  Renewable Sources of Energy  Mach-1  Renewable Sources of Engineering  Machanics  (SoM)  Solar Radiation, Solar Thormal Energy solars, Applications - Invalidation of Control of Caravity, Dynamous.  Centrol and Centre of Cravity, Dynamous.  MS-1  Besic Crystallography, Mays and Phase diagram, Field Treatment.  Mach-1  Design of Machine  Elements  MBC-1  Design of State and dynamic loading; failure theories; failure theories;	Subject Code Details						
Zeroth, First and Second Laws of Thermodynamics. propoficies of pure substances. HT-1  Steady and ustealouthy freet conduction, Firsts, Redistive heat transfer  IC Engines  SI and CI Engines, Engine Systems and Components, Fuels.  ICE-1  IC Engines  SI and CI Engines, Engine Systems and Components, Fuels.  Refrigeration Air Conditioning  Responsible of the Refrigeration systems like Vapour Absorption, Vispour jut, therms electron and Vortex the Emissions and Emission Control Contro		<u> </u>					
Steady and unsteady heat conduction, Fine, Redistive heat transfer.   Red	Thermodynamic	Zeroth, First and Second Laws of Thermodynamics.		Entropy, Irreversibility and availability; Real and Ideal gases;			
Redistance host transfer.   Inchestings.   Inchestings.   ICE-1   ICE-2   IC	_	HT-1					
ICE-1   ICE-2     ICE-2     ICE-2     ICE-2     ICE-2     ICE-2     ICE-2     ICE-2	Heat Transfer	, ,		Free and forced			
Si and Cl Engines   Si and Cl Engines, Engine Systems and Components, Fuels   Performance characteristics and testing of IC Engine   RAC-1			<u>.                                      </u>				
Refrigeration Air Conditioning  Refrigeration Air Conditioning  Refrigeration Air Conditioning  Refrigeration Air Compresses, Counter types of forfigeration refrigeration. Refrigerants, Compresses, Counter that Counter and reduction Conditioning, Load caduations of Medicine such as Velocity potential, States, Suryancy, Equations of Motion such as Velocity potential, States, Suryancy, Equations of Motion such as Velocity potential, States, Suryancy, Equations of Motion such as Velocity potential, States Place and Counter of Compression flaids, PPE-1  PPE-1  PPE-1  PPE-2  PPE-3  PPE-3  PPE-3  PPE-3  PPE-3  PPE-1  PPE-1  PPE-1  PPE-2  PPE-3  Solar Radiation, Solar Thermal Energy collection - Pull pipe and Ram Jet Engines, Radiance, Solar Thermal Energy Collection - Pull pipe and Ram Jet Engines, Power plant components and particular and particular and particular and properties, Place and Counter of Context, Dynamics.  Solar Photovoltac Conversion, Harnessing of Wird Ene Storage Applications  Reciprocaling and Counter of Context, Dynamics.  Mech-1  Basic Crystallography, Alloys and Phase diagrams, Heat Treatment.  Mechanisms and Machines  Mechanisms, Kinematic Analysis, Violation Analysis of System of Forces, Friction, Carbon with Jethanisms and Machines  Mo-1  Design of Machine  Elements  Mo-1  Design of Machine  PROD-1  Mechanisms, Kinematic Analysis, Violation planning and Counter of Convertion and corticol of Gravity, Dynamics of Conversion provention and corticol of Conversion, Indicate the American Streams and Counter of Conversion, Indicate the American Streams and Counter of Conversion, Indicate the American Stream	IC Fngines		Components Fuels				
Vapour compression refrigeration, Air Conditioning   Power Plant Engineering   Power Plant Eng	ie ziigiiies	er and or Engineer, Engine dystems and the	somponomo, r dolo.	Emissions and Emission Control. Otto, Diesel and Dual Cycles.			
Compressors, Other types of refigeration systems like Vapour Absorption, Papour Let thermoe electric and Vortex tube refrigeration and Heat pump.  FIMM-1  Basic Concepts and Properties of Fluids, Mannerby, Fluid Statics, Buyenerby, Fluid Statics, Buyenerby, Fluid Statics, Buyenerby, Equalisors of Miclion such as velocity potential, Stream Function.  PE-1  Power Plant Engineering  Power Plant Engineering  Renewable Sources of Energy  Respective and Compressors, Evaporations and Applications, Vaccous flow of incompressible fluids, Laminar and Tuttatheren flower, Plow through pipes and head losses in pipes.  Responsible squarisms and Again training and Control, Interference and Control of Gravity, Dynamics.  Mechanisms And Machines  Mechanisms Composition and Against Mechanical Proporties and Streams an		RAC-1		RAC-2			
Basic Concepts and Properties of Fluids, Manometry, Fluid Statics, Buyanerty, Equations of Motion such as velocity potential, Stream Function.  Power Plant Engineering  Steam and Gas Turbines, Rankine and Brayton cycles with regeneration and reheat.  Renewable Sources of Energy  Renewable Sources of Energy Collection Source Renewable on Energy Collection Sources on Present Stream Function on Present Metal Energy Collection Function on Present Stream Function on Present Stream Function on Present Metal Energy Collection Function on Present Stream Function Pres		Compressors, Other types of refrigeration systems like Vapour Absorption, Vapour jet, thermo electric and Vortex tube		Psychometric properties and processes, Comfort chart, Comfort and industrial air conditioning, Load calculations and Condensers, Evaporators and Expansion devices.			
Anamometry, Fluid Statics, Buoyanny, Equations of Motion such as velocity potential, Stream Function.  PPE-1  Power Plant Engineering  Steam and Cas Turbines, Rankine and Brayton cycles with regeneration and reheat  Renewable Sources of Energy  Mech-1  Engineering Mech-1  Mechanisms Analysis, Theory of Jack Propulsion – Pulse jet and Ram Jet Engines, Reciprocating and Rotary Compressors.  RSE-1  Solar Radiation, Solar Thermal Energy collection - Flat Plate and flocusing collectors their materials and performance. Solar Thermal Energy Storage, Applications  — heating, cooling and Power Generation.  Mech-1  Mech-1  Mech-1  Basic Crystallography, Alloys and Phase diagrams, Heat Treatment.  Mechanisms and Machines  Mechanisms Adhines  Mechanism		FMM-1	FM	M-2	FMM-3		
Power Plant Engineering  Steam and Gas Turbines, Rankine and Brayton cycles with regeneration and reheat.  Renewable Sources of Energy  Renewable Sources of Energy  Renewable Sources of Energy  Rechards (SoM)  Rechards (So		Manometry, Fluid Statics, Buoyancy, Equations of Motion such as	Viscous flow of incompressible fluids, Laminar and Turbulent flows, Flow through		_		
Steam and Gas Turbines, Rankine and Brayton cycles with regeneration and reheat Reciprocating and Rotary Compressors.  REFI  Renewable Sources of Energy  Engineering Mechanics (SoM)  Engineering Materials  Engineering Materials  Engineering Materials  Mechanisms and Machines Elements  Engineering Materials  Engineering Materials  Mechanisms and Machines Elements  Engineering Materials  Ferrous and Non Forrous Matalas, Non metallic material Basics of Nano-materials, Mechanical Properties and Total- Total-2  Total-3  Total-3  Total-3  Total-3  Engineering Materials  Mechanisms, Kinematic Analysis, Velicity and Acceleration. CAMs with uniform acceleration, cycloidal motion, oscillating followers; Effect of groscopiocouple on automobiles, ships and aircrafts. Governors.  Indigent Properties and forced vibration of undamped and damped SDOF systems, Transmissibility Ratio, Vibration Search of Undamped and Epicyclic. Sider or mechanisms, Balancing.  Proposition of undamped and damped SDOF systems, Transmissibility Ratio, Vibration Search of Undamped and Epicyclic. Sider or mechanisms, Balancing.  Elements  Elements  Manufacturing, Industrial and the S-N diagram; principles of the design of machine elements such as riveted, welded and bolted joints.  PROD-1  Election, Vibration Monitoring.  Metal casting-Metal forming, Metal Joining, computer Integrated manufacturing, FMS.  Inventory control  Election, Vibration, Data acquisition, Fallibution portions, Nois Monitoring, Wear and Debris Anal Signature Analysis, NDT Technique Condition Monitoring.  Metal casting-Meta					PPE-3		
Solar Radiation, Solar Thermal Energy collection - Fiat Plate andfocusing collectors their materials and performance. Solar Thermal Energy Storage, Applications — heating, cooling and Power Generation.    Mech-1		*	analysis, Theory of Pulse jet and Ra	of Jet Propulsion – am Jet Engines,	Boilers, power plant components like condensers, air ejectors, Electrostatic precipitators and cooling towers.		
Flat Plate and focusing collectors their materials and performance. Solar Thermal Energy Storage, Applications — heating, cooling and Power Generation.    Mechanics (SoM)   M		RSE-1			RSE-2		
Engineering Mechanics (SoM)  Analysis of System of Forces, Friction, Centroid and Centre of Gravity, Dynamics.  MS-1  Basic Crystallography, Alloys and Phase diagrams, Heat Treatment.  ToM-1  Mechanisms And Machines  ToM-1  Mechanisms, Kinematic Analysis, Velocity and Acceleration, CAMs with uniform acceleration, evoicidal motion, oscillatingfollowers; Effect of Gyroscopicocuple on automobiles, ships and aircrafts. Governors.  MD-1  Design of Machine Elements  Manufacturing, Industrial and Maintenance Engineering  Manufacturing, Industrial and Maintenance Engineering  Metal casting-Metal forming, Metal Joining, computer Integrated manufacturing, FMS.  MR-1  Microprocessors and Micro controllers: Architecture, programming.  MR-1  Microprocessors and Micro controllers: Architecture, programming.  MR-2  Theory of Bending Stresses-Slop deflection-Toxion, Thin and Strains, Stending Streins, Strains Strains, Streands Strains, Stending Moment and Strains, Stending Stresses and Strains, Endending Moment and Strains, Bending Moment and Shear Force Diagrams.  MS-2  ToM-3  ToM-2  ToM-3  ToM-2  ToM-3  Geometry of tooth profiles, Law gearing, Interference, Helical, Spira of undamped and damped SDOF systems, Transmissibility Ratio, Vibration of undamped and damped SDOF systems, Transmissibility Ratio, Vibration, Genetic programming, Interference, Helical, Spira of undamped and damped SDOF systems, Transmissibility Ratio, Vibration, Genetic programming, Interference, Helical, Spira of undamped and damped SDOF systems, Transmissibility Ratio, Vibration, Genetic programming, Interference, Helical, Spira depends of undamped and damped SDOF systems, Transmissibility Ratio, Vibration, Genetic programming, Interference, Helical, Spira depends of undamped and damped SDOF systems, Transmissibility Ratio, Vibration, Genetic programming, Interference, Helical, Spira depends of undamped and damped SDOF systems, Transmissibility Ratio, Vibration, Data acquisition, Fallower and Debris Anal Signature Analysis, NDT Techniqu Condition Monito	Sources of	Flat Plate andfocusing collectors the and performance. Solar Thermal Energy S	Flat Plate andfocusing collectors their materials  performance. Solar Thermal Energy Storage, Applications  Wo		dal Energy – Methods and Applications,		
Analysis of System of Forces, Friction, Centroid and Centre of Gravity, Dynamics.    Analysis of System of Forces, Friction, Centroid and Centre of Gravity, Dynamics.   Shear Force Diagrams.   Shear	Engineering	Mech-1		-			
Basic Crystallography, Alloys and Phase diagrams, Heat Treatment.	Mechanics		System of Forces, Friction, and Strains, Bendin		Theory of Bending Stresses-Slope and deflection-Torsion, Thin and thick Cylinders, Spheres.		
Materials    Basic Crystallography, Alloys and Priese diagrams, Heat Treatment.   Basics of Nano-materials, Mechanical Properties and Testing, Corrosion prevention and control.	For all and a solution	MS-1					
Mechanisms and Machines  Mechanisms (Velocity and Acceleration, CAMs with uniform acceleration, cycloidal motion, oscillatingfollowers; Effect of Gyroscopiccouple on automobiles, ships and aircrafts. Governors.  MD-1  Design of Machine Elements  MD-2  Design of Machine Elements  Manufacturing, Industrial and Maintenance Engineering  Maintenance Engineering  Machining and machine tool operations, Limits, fits and tolerances, Metrology and inspection.  MR-1  Microprocessors and Micro controllers: Architecture, programming.  Microprocessors and Micro controllers: Architecture, programming.  Microprocessors and Micro controllers: Architecture, programming.				Basics of Nano-materials, Mechanical Properties and			
Velocity and Acceleration. CAM's with uniform acceleration, cycloidal motion, oscillatingfollowers; Effect of Gyroscopiccouple on automobiles, ships and aircrafts. Governors.   MD-1			Tol	M-2	ToM-3		
Design of Machine Elements  Design for static and dynamic loading; failure theories; fatigue strength and the S-N diagram; principles of the design of machine elements such as riveted, welded and bolted joints.  PROD-1  IE-1  Failure concepts and characterist Reliability, Failure analysis, Machine analysis, Machine analysis, Machine and Maintenance Engineering  Machining and machine tool operations, Limits, fits and tolerances, Metrology and inspection.  Operations research - CPM-PERT  MR-2  Microprocessors and Micro controllers: Architecture, programming.	and	Velocity and Acceleration. CAMs with uniform acceleration, cycloidal motion, oscillatingfollowers; Effect of Gyroscopiccouple on automobiles,	of undamped and damped SDOF systems, Transmissibility Ratio, Vibratio		Geometry of tooth profiles, Law of gearing, Interference, Helical, Spiral and Worm Gears, Gear Trains- Simple, compound and Epicyclic. Slider crank mechanisms, Balancing.		
fatigue strength and the S-N diagram; principles of the design of machine elements such as riveted, welded and bolted joints.  PROD-1  IE-1  Re-1  Failure concepts and characterist Reliability, Failure analysis, Mach Control, Computer Integrated manufacturing, FMS.  PROD-2  IE-2  Machining and Machine tool operations, Limits, fits and tolerances, Metrology and inspection.  MR-1  Microprocessors and Micro controllers: Architecture, programming.  Failure concepts and characterist Reliability, Failure analysis, Mach Control, Vibration, Data acquisition, Fau Detection, Vibration Monitoring.  Shafts, Spur gears, rolling and sliding contact bearings Brakes and clutches, flywheels.  Shafts, Spur gears, rolling and sliding contact bearings Brakes and clutches, flywheels.  Shafts, Spur gears, rolling and sliding contact bearings Brakes and clutches, flywheels.  Shafts, Spur gears, rolling and sliding contact bearings Brakes and clutches, flywheels.  Shafts, Spur gears, rolling and sliding contact bearings Brakes and clutches, flywheels.  Shafts, Spur gears, rolling and sliding contact bearings Brakes and clutches, flywheels.  Failure concepts and characterist Reliability, Failure analysis, Mach Control, Vibration, Data acquisition, Fau Detection, Vibration, Monitoring Search - CPM-PERT  Microprocessors and Micro controllers: Architecture, programming Shafts and clutches, flywheels.					MD-2		
Metal casting-Metal forming, Metal Joining, computer Integrated manufacturing, FMS.  Metal casting-Metal forming, Metal Joining, computer Integrated manufacturing, FMS.  Production planning and Control, Inventory control  Inventory control  Production planning and Control, Vibration, Data acquisition, Fau Detection, Vibration Monitoring  PROD-2  Machining and machine tool operations, Limits, fits and tolerances, Metrology and inspection.  MR-1  Microprocessors and Micro controllers: Architecture, programming		fatigue strength and the S-N diagram; princi	ples of the design of				
Metal casting-Metal forming, Metal Joining, computer Integrated manufacturing, FMS.  Metal casting-Metal forming, Metal Joining, computer Integrated manufacturing, FMS.  Metal casting-Metal forming, Metal Joining, computer Integrated manufacturing, FMS.  Production planning and Control, Inventory control  Nieroscoping and Metal Control, Vibration, Data acquisition, Fau Detection, Vibration, Monitoring Metal Joining, Vibration, Data acquisition, Fau Detection, Vibration Monitoring Metal Control Vibration, Data acquisition, Fau Detection, Vibration Monitoring  ME-2  Machining and machine tool operations, Limits, fits and tolerances, Metrology and inspection.  MR-1  Microprocessors and Microprocessor		PROD-1	IE	-1	RE-1		
Maintenance Engineering  Machining and machine tool operations, Limits, fits and tolerances, Metrology and inspection.  MR-1  Microprocessors and Micro controllers: Architecture, programming			· ·	-	Failure concepts and characteristics- Reliability, Failure analysis, Machine Vibration, Data acquisition, Fault Detection, Vibration Monitoring.		
operations, Limits, fits and tolerances, Metrology and inspection.  Operations research - CPM-PERT Monitoring, Wear and Debris Anal Signature Analysis, NDT Techniqu Condition Monitoring.  MR-1  Microprocessors and Micro controllers: Architecture, programming	Maintenance	PROD-2	IE-2				
Microprocessors and Micro controllers: Architecture, programming	Engineering	operations, Limits, fits and tolerances, Metrology and inspection.	Operations resea	arch - CPM-PERT	-		
Microprocessors and Micro controllers: Architecture, programming,					MR-2		
Mechatronics and Robotics    I/O,Computer interfacing, Programmable logic controller. Sensors and actuators, Piezoelectric accelerometer, Hall effect sensor, Optical Encoder, Resolver, Inductosyn, Pneumatic and Hydraulic actuators, stepper motor, Control Systems- Mathematical modeling	and	and actuators, Piezoelectric accelerometer, Hall effect sensor, Optical Encoder, Resolver, Inductosyn, Pneumatic and Hydraulic		Robotics, Robot Classification, Robot Specification, notation; Direct and Inverse Kinematics; Homogeneous Coordinates and Arm Equation of four Axis SCARA Robot.			