

DEMO TOPICS FOR DEGREE/DIPLOMA PROGRAMME FOR EVEN TERM 2016-17

S.N O	FACULTY	DEGREE TOICS	DIPLOMA TOPICS
1	CIVIL	<ol style="list-style-type: none"> HYDEATION OF CEMENT ANALYSIS OF TRUSS BY METHOD OF SECTION SEDIMENTATION PROCESS IN WATER TREATMENT 	<ol style="list-style-type: none"> ANALYSIS OF FIXED BEAM LIMIT STATE DESIGN ALIGNMENT SURVEY FOR HILL ROAD
2	COMPUTER	<p><u>THEROY</u></p> <ol style="list-style-type: none"> JAVA AND APPLETS JAVA EXCEPTION HANDLING PRE-PROCESSOR AND DIRECTIVES POINTER AND ARRAY FUNCTIONS <p><u>PRACTICAL</u></p> <ol style="list-style-type: none"> JAVA PROGRAMME <ul style="list-style-type: none"> EXCEPTIONAL HANDLING APPLET PROGRAMME C PROGRAMME <ul style="list-style-type: none"> QUADRATIC EQUATION MATRIX MULTIPLICATION POINTERS TO FUNCTION 	<p><u>THEORY</u></p> <ol style="list-style-type: none"> CLIPPING ALGORITHMS 3D TRANSFORMATION POINTERS AND ARRAY FUNCTIONS AND STRUCTURE. <p><u>PRACTICAL</u></p> <ol style="list-style-type: none"> CLIPPING ALGORITHMS MATRIX MULTIPLICATION STRUCTURE WEB AGE DESIGNING USING CSS CALCULATOR USING VB
	ELECTRONICS	<p><u>THEORY</u></p> <ol style="list-style-type: none"> TIME RESPONSE ANALYSIS- ANALYSIS OF TRANSIENT AND STEADY STATE BEHAVIOUR OF CONTROL SYSTEM. ARM ARCHITECTURE-ARM DESIGN PHILOSOPHY, PSR AND REGISTER CURRENT DISTRIBUTION OF DIPLOE ANTENNAS ANTENNA MEASUREMENT ARCHITECTURE OF 8051 <p><u>PRACTICAL</u></p> <ol style="list-style-type: none"> TO CONSTRUCT AND ESTABLISH A MICROWAVE COMMUNICATION SYSTEM. DESIGN AND IMPLEMENTATION OF 4 BIT BINARY ADDER/SUBTRACTOR AND BCD ADDER USING IC7483. WRITE A PROGRAME TO INTERFACE 8-BIT LED AND SWITCH INTERFACE. TO DESIGN ADC AND DAC INTERFACING ON 8085 MCROCONTROLLER. 	<p><u>THEORY</u></p> <ol style="list-style-type: none"> EXPLAIN THE BLOCK DIAGRAM OF INSTRUMENTATION SYSTEM. EXPLAIN THE CONSTRUCTION AND WORKING PRINCIPLES OF DIFFERENT POWER DESIGNS. EXPLAIN THE BLOCK DIAGRAM OF OP-AMP AND DIFFERENT PARAMETERS OF AP-AMP. EXPALIN AND BRIEF ABOUT EMBEDDED SYSTEMS. EXPALIN THE WORKING PRINCIPLES OF UJT AND MOSFET. <p><u>PRACTICAL</u></p> <ol style="list-style-type: none"> USE COMMAND TO CONVERT CENTRIGRADE TO FAHRENHEIT. DESIGN OF LOW PASS FILTER WITH R+1K OHM AND C=0.1μF AND CALCULATE THE CUT OFF FREQUENCY. MEASURE DISPLACEMENT USING LDTD. PLOT V-I CHARACTERISTIC OF SCR AND FIND HOLDING CURRENT I H AND LATCHING CURRENT I L.
4	MECHANICAL		<p><u>THEORY</u></p> <ol style="list-style-type: none"> BERNOULIAS THEOREM AND ITS APPLICATION <ul style="list-style-type: none"> VENTURIMETER ORIFILE METER PITOT TUBE CONSTRAINED MOTION AND ITS TYPES KINEMATIC LINKS AND PAIRS. STEADY STATE ENERGY EQUATION AND ITS APPLICATION.

			<p>5. THEORY OF SIMPLE BENDING.</p> <p>PRACTICAL</p> <ol style="list-style-type: none"> 1. VERIFY LAMI'S THEORY 2. VERIFY POLYGON LAW OF FORCE 3. TO FIND THE BRINELL'S HARDNESS NO.(BHN) OF A GIVEN SPECIMEN. 4. TO MEASURE THE THICKNESS OF A GIVEN SPECIMEN USING VERNIER CALLIPER. 5. TO FIND THE INCLINATION OF SPECIMEN USING BEVEL PROTECTOR.
5	DHMCT		<p>THEORY</p> <ol style="list-style-type: none"> 1. COCKTAIL AND MOCKTAILS – DEFINITION <ul style="list-style-type: none"> - EQUIPMENTS - GARNISHES - METHODS 2. BEER-DEFINITION <ul style="list-style-type: none"> - METHODS OF PRODUCTION - INTERNATIONAL BRAND NAMES 3. PROTEIN-CLASSIFICATION SOURCES 4. CARBOHYDRATES-CLASSIFICATION , SOURCES 5. FAT-CLASSIFICATION, SOURCES 6. VITAMINS-CLASSIFICATION, SOURCES. <p>PRACTICAL</p> <ol style="list-style-type: none"> 1. PREPARATION OF ANY TWO CLASSIC MOCKTAIL. 2. SERVICE OF BEER.
6	ELECTRICAL		<p>THEORY</p> <ol style="list-style-type: none"> 1. CONSTRUCTION AND WORKING OF 3-PHASE TRANSFORMER. 2. PROTECTION OF ALTERNATORS. 3. PARALLEL OPERATION OF ALTERNATOR AND LOAD SHARING. 4. NEED AND TYPES OF EARTHING. 5. POWER FACTOR IMPROVEMENT. <p>PRACTICAL</p> <ol style="list-style-type: none"> 1. VERIFICATION OF KVL AND KCL. 2. VERIFICATION OF THEVENIN'S THEOREM. 3. POWER MEASUREMENT OF 2-WATTMETER METHODS. 4. EFFICIENCY OF SINGLE PHASE TRANSFORMER. 5. STAIR CASE WIRING. 6. MOTOR CONNECTION THROUGH DOL/STAR-DELTA STARTER.
	MATHEMATICS	<ol style="list-style-type: none"> 1. Differential Equation: First Order Bernoulli Equation, orthogonal trajectories 2. Eigen value and Eigen vector of a real matrix 3. Linear differential equations of higher order 4. Solve simultaneous equations in three variables using Cramer's rule 5. Find partial fraction of proper and improper fraction. 6. Definition of fraction, 	

		proper, improper fraction and partial fraction.	
	CHEMISTRY		<ol style="list-style-type: none"> 1. Polymers –classification and types of polymerisation reaction 2. Definition and derivation of Phase rule 3. Electrolysis –Mechanism and its application 4. Thermal Insulators – Definition , characteristics and its classification <p>Process of Extraction of metals from its ore</p>
	ENGLISH		<ol style="list-style-type: none"> 1. Barriers to communication 2. Appropriate use of definite and indefinite Articles 3. Speech Writing based on situations: 4. Non verbal & Graphical communication: 5. Formal Written Communication
	MANAGEMENT		<ol style="list-style-type: none"> 1. Henry fayal's concept of Management 2. Evaluation of Investment- Present worth method & Future worth Method 3. Sinking funds methods of depreciation 4. Concept of Engineering Economics 5. Quality Management System – Activities, Benefits 6. Modern Techniques of Material Management
	ACCOUNTS		<ol style="list-style-type: none"> 1. Principles of Accounting 2. Types of capitals 3. Direct and Indirect taxes 4. Ledger
	ECONOMICS	<ol style="list-style-type: none"> 5. Nature of functioning of money. 6. Present worth method & future worth method. 7. Inflation an deflation concepts. 8. Organizing and staffing. 9. Entrepreneurship and small business. 10. Management of public organization. 	