6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for Institutionalizing the quality

SNO	TITLE
1	VALUE ADDED COURSES CURRICULUM & CERTIFICATE
2	CENTRALIZED INTERNAL ASSESSMENT AND VALUATION INTERNAL ASSESMENT CIRCULAR SEATING ARRANGEMENTS PAPER EVALUATION INTERNAL ASSESMENT QUESTION PAPER

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
REDHILLS, CHENNAI - 600 052

VALUE ADDED COURSES CURRICULUM

Offered by Aeronautical Engineering Department

SL.NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	VAE601	Finite Element Simulation Using ANSYS	15	0	30	2
2	VAE701	RC Flight Control	15	0	30	2
3	VAE702	ANSYS Fluent for Aerodynamicist	15	0	30	2

Offered by Civil Engineering Department

SL.NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	VCE001	STAAD PRO	15	0	30	2

Offered by Computer Science Engineering Department

SL.NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	VCS001	Robotics Programming	15	0	30	2

Offered by Electrical and Electronic Engineering Department

SL.NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	VEE001	Embedded and Automation Systems Design	15	0	30	2

Offered by Mechanical Engineering Department

SL.NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	VME001	CNC Programing	15	0	30	2

VALUE ADDED COURSES SYLLABUS

VAE601 FINITE ELEMENT SIMULATION USING ANSYS **L T P C**
15 0 30 2

COURSE OBJECTIVES:

To impart knowledge on

- Basic solid mechanics concept.
- ANSYS Structural Training.
- ANSYS 1D, 2D& 3D FEAnalysis.
- ANSYS Workbench FEAnalysis.

UNIT I BASIC SOLID MECHANICS **9**

Concept of FBD, Different Sources of Loads, Load Path, Concepts of Stress & Strain, Engineering Materials. Stress Designation, Combined Stresses, Stress Transformation, Principal Stresses, Theories of Failure, Stress Concentration.

UNIT II ANSYS 16.0 – STRUCTURAL TRAINING (1D PROBLEMS) **9**

Demonstration on Various Menu's in ANSYS® GUI. Workshops on 1D Problems. Hands-on Training in various 1D problems like bar, beam, spring, truss etc.,

UNIT III ANSYS 16.0 – STRUCTURAL TRAINING (2D PROBLEMS) **9**

Workshops on 2D Meshing and Workshops on 2D Analysis. Hands -on Training in various 2D problems like Planar symmetry problems, plane stress problems, plane strain problems &axi-symmetric problems.

UNIT IV ANSYS 16.0 – STRUCTURAL TRAINING (3D PROBLEMS) **9**

Workshops on 3D Meshing and Workshops on 3D Analysis. Hands -on Training in various 3D problems, 3DThermal problems and Coupled Field Analysis.

UNIT V ANSYS 16.0 – WORKBENCH TRAINING **9**

Workshops on ANSYS Workbench. Hands-on Training in ANSYS Workbench. Introduction to Composite Modeling in ANSYS® Workbench.

TOTAL: 45 PERIODS

COURSE OUTCOMES:

Upon completion of this course the students would be able to

- Get familiarized with the basic concepts of solid mechanics.
- Use ANSYS FEA for numerical simulation.
- Demonstrate the 1D, 2D and 3D ANSYS FEA.
- Understand ANSYS® Workbench platform.
- Use ANSYS for the new product development.

TEXTBOOKS:

1. Erdogan Madenei, Ibrahim Guven, "The Finite Element Method and Applications in Engineering Using ANSYS", Springer, 2011.
2. Srinivas Paleti, Sambana Krishna Chaitanya, Datti Rajesh Kumar, "Finite element analysis using ANSYS 11.0", PHI, 2010.

REFERENCE BOOK:

1. Sham Tickoo, "ANSYS Workbench 14.0 for Engineers and Designers", DreamTech Press, 2013.

VAE701 ANSYS FLUENT FOR AERODYNAMICIST L T P C
15 0 30 2

OBJECTIVES

- To make the students to solve external flow over body

UNIT I INTRODUCTION TO ANSYS FLUENT 15

Introduction to Ansys workbench- Fluent Solver-Fluid flow system- geometry creation using design modeler- meshing techniques- solver setup- setting up material properties- setting up solver with cell zone and boundary conditions- convergence criteria- mesh metrics- residuals monitoring- iteration- solution- post processing of results.

UNIT II INCOMPRESSIBLE AND COMPRESSIBLE FLOWS 15

Basics of flow- incompressible and compressible fluids- fluid flow equations- turbulence models- Two equation k-£ model- turbulent kinetic energy- rate of dissipation- advantages and applications of two equation model.

UNIT III FLOW OVER AN AIRFOIL 15

Airfoil nomenclature- NACA airfoil data- creation of airfoil section using design modeler- fluid volume domain creation over the airfoil- Boolean operation- labelling faces- meshing methods- Edge sizing- Solver model- cell zone and boundary conditions- convergence criteria- mesh refinement.

TOTAL: 45 PERIODS

OUTCOMES

- Students will be able to analyze fluid flow over wings

TEXTBOOKS

1. An introduction to Ansys Fluent by John Matsson

REFERENCES

1. Introduction to aerodynamics by John D Anderson
2. Modern compressible flows by John D Anderson

VAE702 RC FLIGHT CONTROL L T P C

15 0 30 2

OBJECTIVES:

- To make the students to understand the basic concepts of RC Flight control system design.

UNIT I INTRODUCTION TO RC PLANES 15

Introduction to RC Plane Systems--models and prototypes – System Composition-applications--Introduction to Design and Selection of the System- Aerodynamics and Airframe Configurations-control surfaces-specifications.

UNIT II HARDWARE AND PAYLOADS 15

Autopilot – AGL-pressure sensors-servos-accelerometer –gyros-actuators- power supply-processor, integration, installation, configuration, and testing-- Payloads-Telemetry-tracking-Aerial photography-controls-PID feedback-radio control frequency range –modems-memory system-simulation-ground test-analysis-trouble shooting

UNIT III THE DEVELOPMENT OF RC FLIGHT CONTROLS 15

Waypoints navigation-ground control software- System Ground Testing- System In-flight Testing-Future Prospects and Challenges-Case Studies – Mini and Micro UAVs.

TOTAL: 45 PERIODS

OUTCOMES:

- Ability to design RC Planes
- Ability to identify different hardware for RC planes

REFERENCES:

1. Reg Austin “Unmanned Aircraft Systems UAV design, development and deployment”, Wiley, 2010.

2. Robert C. Nelson, Flight Stability and Automatic Control, McGraw-Hill, Inc, 1998.

VCE001 **STAAD PRO** **L T P C**
15 0 30 2

Objectives:

- The course objective is to train the students in structural Modeling, Designing and Analysis, Integrated Design and Finite Element Analysis.
- This course will help the students to familiarize on the analysis and design of different kinds of structures.

UNIT-I Modelling **9**

Introduction to STAAD - Starting a project - Modeling a structure Creating Nodes & Members Geometry wizard -Property definition - Material definition - Support definition – Specifications

UNIT-II Loading **9**

Nodal load - Member loads - Uniform Force and Moment - Concentrated Force and Moment - Linear Varying Load - Trapezoidal Load - Hydrostatic Load - Area load - Floor load

UNIT-III Load definitions **9**

Wind load - Creating Load Combination - Automatic Load Combination - Edit Auto Load Rules - Moving load - Seismic load

UNIT-IV Analysis and Design **9**

Frame Analysis – Truss Analysis – Concrete Design – Steel Design

UNIT-V Project report **9**

Importing CAD Models - Report Setup – Plotting from STAAD.Pro – Final Project

TOTAL: 45 PERIODS

VCS001 **ROBOTICS PROGRAMMING** **L T P C**

15 0 30 2

COURSE OBJECTIVES:

To impart knowledge on

- Fundamentals of robot working, programming and integration in a manufacturing process
- Working of robot mechanical, power, measuring and control system, robot kinematics, dynamic, control and programming, Kinematics, path planning and control.
- Visualization on the view of the robotics impact in human future

MODULE I **10**

- Fundamentals of robot programming
- Robot – Definition
- Robot Anatomy
- Co-ordinate Systems,
- Pitch, Yaw, Roll, Joint Notations, Speed of Motion, Pay Load
- Robot Parts and Functions
- Need for Robots
- Different Applications

MODULE II **10**

- Introduction to Robo DK
- 3D Mouse Navigation
- Keyboard Shortcuts
- Menu icons
- Robot controls and Simulation

MODULE III **10**

- Robotics
- Computer Vision
- Microworld Simulation
- Introduction to dLife
- ControlCenter
- dLife Examples

MODULE IV **15**

- Vision
- Introduction to Python and Pyro
- Control Paradigms
- Manipulation
- Learning
- Mapping

- Multi-robot communication

TOTAL: 45 PERIODS

COURSE OUTCOMES:

Upon completion of the course students will be able to

- Identify the importance of robotics in today and future goods production
- Explore knowledge on basics of robotics programming like VAL, AML
- Perform robot configuration and subsystems
- Analyze the principles of robot programming and handle with typical robot

WEB REFERENCES:

1. http://www.robotc.net/
2. http://www.toptal.com/robotics/programming-a-robot-an-introductory-tutorial
3. http://www.robotmaster.com/en/why-robotmaster

VEC001 EMBEDDED SYSTEMS L T P C
15 0 30 2

COURSE OBJECTIVES:

- To expose students to the field of Embedded Systems
- To enable students to implement their creative concepts to work

COURSE OUTCOMES:

After the completion of this course, students will be able to

- Apply engineering fundamentals and an engineering specialization to the conceptualization of embedded engineering design models.
- Identify, formulate, research literature and solve complex embedded system engineering problems.
- Design solutions for by developing and debugging embedded system hardware and firmware

UNIT I INTRODUCTION TO EMBEDDED SYSTEMS 15

Overview of Microprocessors & Microcontrollers–Embedded Systems Design Issues– Challenges and Trends in Embedded Systems, Memory (RAM, ROM, EPROM, EEPROM, FLASH) – I/O Interfacing, Programming Environment- Review of C Programming, Host & Target Development environment, Embedded C Programming, Simulation and Debugging, Downloading into target system.

UNIT II BASIC MICROCONTROLLER BASED EMBEDDED SYSTEM DESIGN 15

8051 Microcontroller –Architecture, Peripheral interfacing and Programming. AVR Microcontroller –Architecture,Peripheral interfacing and Programming. PIC Microcontroller - Architecture, Peripheral interfacing and Programming.

UNIT III ADVANCED MICROCONTROLLER BASED EMBEDDED SYSTEM DESIGN 15

Stream1: TIVA ARM Processor- Architecture, ARM Peripheral interfacing and Programming - Introduction to TIVA C Series Architecture. TIVA Programming, I/O Port Programming, LED, PWM and Switch Interfacing. Analog to Digital Converter Programming, UART, DMA Controller Programming, Timer Interfacing, EEPROM Interfacing, JTAG and Interrupt Handling

Stream2: C2000 Introduction to Real Time Controllers - C2000 Series Architecture – C2000 Libraries. C2000 Programming. I/O Port Programming, LED, Interrupts and keyboard Interfacing, Sensors Interfacing, Motor Contol, Switch Interfacing. ePWM Programming, Flash Memory Interfacing

(PRACTICAL) - EXPERIMENTS

- 8051/PIC/AVR/ARM/PSoC based Interfacing and Programming of LEDs and Switches
- 8051/PIC/AVR/ARM/PSoC based Interfacing and Programming of LCD and Seven Segment Displays
- 8051/PIC/AVR/ARM based Interfacing and Programming of matrix keyboard
- 8051/PIC/AVR/ARM/PSoC based Interfacing and Programming of ADC/DAC and Temperature Sensor/Humidity Sensor/ Ultrasonic Sensor/ Accelerometer
- 8051/PIC/AVR/ARM based Interfacing and Controlling of DC Motors/Stepper Motors/Servo Motors using PWM

- 8051/PIC/AVR/ARM/PSoC based Interfacing and Programming for establishing serial communication using RS232,I2C,SPI,CAN
- 8051/PIC/AVR/ARM based Interfacing and Programming of Relay and Real Time Clock
- 8051/PIC/AVR/ARM based Interfacing and Programming of Wireless Zigbee Modules, GSM and GPS
- RTOS based embedded application using ARM
- AVR/Arduino based Robot Programming for Line Follower, Obstacle detector
- Qu-bot based Robot Programming for Line Follower, Obstacle detector
- TIVA/C2000 based I/O Port LED Interface and Programming
- TIVA based PWM and C2000 based ePWM Interface and Programming
- TIVA/C2000 based control of Switch & Keypad Interfacing
- TIVA/C2000 based control Analog to Digital Converter and Programming
- TIVA/C2000 based UART Interface and Programming
- TIVA based DMA Controller Interface and Programming
- C2000 based DC and stepper motor control
- TIVA/C2000 based TIVA based Timer Programming8
- TIVA based EEPROM Memory Interfacing and Programming
- C2000 based Flash Memory write Programming

TOTAL: 45 PERIODS

REFERENCES

1. Andrew Sloss , Dominic Symes and Chris Wright, “ARM System Developer's Guide: Designing and Optimizing System Software”, Morgan Kaufmann Publishers, 2004
2. Muhammad Ali Mazidi, “8051 Microcontroller embedded systems using assembly and C”, Pearson, Second edition, 2008
3. Muhammad Ali Mazidi, “PIC microcontroller embedded systems using assembly and C”, Pearson,2008

WEB REFERENCES

1. http://software-dl.ti.com/trainingTTO/trainingTTO_public_sw/c28x2812/C28x%20Workshop.pdf
2. http://software-dl.ti.com/trainingTTO/trainingTTO_public_sw/GSW-TM4C123GLaunchPad/TM4C123G_LaunchPad_Workshop_Workbook.pdf

VME001 CNC TRAINING L T P C
15 0 30 2

COURSE OBJECTIVES:

- To understand the concepts G and M codes and manual part programming.
- To know the application of various CNC machines
- To impart CNC part programming skills for turning and milling applications.
- To give a good exposure of CAM software in order to perform simulation and to generate CL data.

UNIT I MANUAL CNC PART PROGRAMMING – CNC LATHE 15

Manual CNC Part Programming Using Standard G and M Codes for CNC Lathe - Tool Path Simulation – Exposure to Various Standard Control Systems- Machining simple components by Using CNC Production Lathe.

UNIT II MANUAL CNC PART PROGRAMMING – CNC MILLING 15

Manual CNC Part Programming Using Standard G and M Codes for CNC Milling Machine - Tool Path Simulation – Exposure to Various Standard Control Systems- Machining simple components by Using CNC trainer milling machines.

UNIT III COMPUTER AIDED PART PROGRAMMING – STL FILE GENERATION 15

CL Data Generation by Using CAM Software– Post Process Generation for Different Control System.

TOTAL: 45 PERIODS

COURSE OUTCOMES:

- Students will be familiar with CNC part programming using G & M codes.
- Course would be helpful to understand the basic concepts in NC technology.
- This course would make familiar of the use of CAM software.
- Students would be able to apply the concepts of CNC parts programming in various Industrial applications.
- Students would be trained to write and execute NC program on CNC production machines for different jobs.

HARDWARE

- Computer Server
- Computer nodes or systems (High end CPU with at least 1 GB main memory) networked to the server

SOFTWARE

- CAM Software (CNC Programming and tool path simulation for FANUC /Sinumeric and Hoyden controller)
- Licensed operating system

TEXTBOOK:

1. Zeid I, “CAD/CAM Theory and Practice”, McGraw-Hill, 1991.

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Ph.No: 044 - 2631 1045/1001/1009, Mail id: gsbt@gojaneducation.com, www.gojaneducation.com

CERTIFICATE OF COMPLETION

This is to Certify that

Mr./Ms. LOGESH R *carrying student number* 110515101008

has been declared succesfully completed the **VAE702-RC FLIGHT CONTROL** *course offered by*

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY

During the period from 10-07-2018 *to* 11-10-2018

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CERTIFICATE OF COMPLETION

This is to Certify that

Mr./Ms. VIGNESH S *carrying student number* 110515101014

has been declared succesfully completed the **VAE702-RC FLIGHT CONTROL** *course offered by*

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During the period from 10-07-2018 *to* 11-10-2018

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CERTIFICATE OF COMPLETION

This is to Certify that

Mr./Ms. ALEN XAVIOUR *carrying student number* 110515101001

has been declared succesfully completed the **VAE702-RC FLIGHT CONTROL** *course offered by*

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Ph.No: 044 - 2631 1045/1001/1009, Mail id: gsbt@gojaneducation.com, www.gojaneducation.com

CERTIFICATE OF COMPLETION

This is to Certify that

Mr./Ms. ASWINI V *carrying student number* 110515101002

has been declared succesfully completed the **VAE702-RC FLIGHT CONTROL** *course offered by*

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY

During the period from 10-07-2018 *to* 11-10-2018

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Ph.No: 044 - 2631 1045/1001/1009, Mail id: gsbt@gojaneducation.com, www.gojaneducation.com

CERTIFICATE OF COMPLETION

This is to Certify that

Mr./Ms. KAVIYA D *carrying student number* 110515101703

has been declared succesfully completed the **VAE702-RC FLIGHT CONTROL** *course offered by*

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY

During the period from 10-07-2018 *to* 11-10-2018

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" G.S.B.T. "

CIRCULAR

To
All Faculty Members:

Date: 24/12/2019

Sub: Question Paper Setting for IV, VI & VIII Semester Classes-Cycle Test-I Reg.

Faculty member are informed to set the Cycle Test-I question Papers (**Set A and Set B)** for IV, VI & VIII Semesters and submit it to the concerned HOD's on or before 02/01/2020.Department Exam Cell Members are requested to collect the question papers and send it to Exam Cell Mail id (gsbt.coe@gojaneducation.com) on or before 04/01/2020.

The question paper format is as follows:-

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY, CHENNAI-52 (Font Size-12 Times New Roman)

CYCLE TEST –I –JANUARY 2020
(Font Size-10 Times New Roman)

Branch	:	Date	:
Year/Semester	:	Time	: **8.40 Am To 10.10 Am**
Course Code/Title	:	Max.Marks	: **50 Marks**
Question Set	: **1&2**	No.Of.Copies	:

Note:

- **Hand written and manually written question paper will not be entertained.**
- **Question paper**
  Part A=5*2 =10
  Part B=2*13=26
  Part C=1*14=14

Principal

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY

CYCLE TEST –I

TIME TABLE-(EVEN SEMESTER)

SEM/YEAR: IV/II

TIME: 8.40 Am To 10.10 Am

DATE	AERO	CIVIL	CSE	EEE	ECE	MECH	IT
22-01-2020	MA8491 Numerical Methods	MA8491 Numerical Methods	MA8402 Probability And Queuing Theory	MA8491 Numerical Methods	MA8451 Probability and Random Processes	MA8452 Statistics And Numerical Methods	MA8391 Probability And Statistics
23-01-2020	AE8401 Aero Dynamics-I	CE8401 Construction Techniques And Practices	CS8491 computer architecture	EE8401 Electrical Machines -II	EC8451 Electromagnetic Fields	ME8451 Manufacturing Technology-II	CS8491 Computer Architecture
24-01-2020	AE8402 Aircraft system &instruments	CE8402 Strength Of Materials - II	CS8492 Database Management Systems	IC8451 Control Systems	EC8452 Electronic Circuits-II	ME8492 Kinematics Of Machinery	CS8492 Database Management Systems
25-01-2020	AE8403 Aircraft structures-I	CE8403 Applied Hydraulic Engineering	CS8451 Design And Analysis Of Algorithms	EE8403 Measurements And Instrumentation	EC8453 Linear Integrated Circuits	CE8395 Strength of Materials for Mechanical Engineers	CS8451 Design And Analysis Of Algorithms
27-01-2020	AE8404 Propulsion-I	CE8404 Concrete Technology	CS8493 Operating Systems	EE8451 Linear Integrated Circuits And Applications	EC8491 Communication Theory	ME8493 Thermal Engineering-I	CS8493 Operating Systems
28-01-2020	PR8451 Mechanics of Machines	CE8491 Soil Mechanics	CS8494 Software Engineering	EE8402 Transmission And Distribution	GE8291: Environmental Science and Engineering	ME8491 Engineering Metallurgy	GE8291 Environmental Science And Engineering

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GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY

CYCLE TEST –I

TIME TABLE-(EVEN SEMESTER)

SEM/YEAR: VI/III **TIME: 8.40 Am To 10.10 Am**

DATE	AERO	CIVIL	CSE	EEE	ECE	MECH	IT
22-01-2020	AE8601 Finite Element methods	CE8601 design of steel structural elements	CS8651 Internet Programming	EE8601 Solid State Drives	EC8651 Transmission Lines and RF Systems	ME8651 Design Of Transmission Systems	IT8601 Computational Intelligence
23-01-2020	AE8602 Experimental Aero Dynamics	CE8602 Structural Analysis II	CS8691 Artificial Intelligence	EE8602 Protection And Switchgear	EC8652 Wireless Communication	ME8691 Notes Computer Aided Design And Manufacturing	CS8592 Object Oriented Analysis And Design
24-01-2020	AE8603 Composite Materials& structures	CE8603 Irrigation Engineering	CS8601 Mobile Computing	EE8691 Embedded Systems	EC8691 Microprocessor And Microcontroller	ME8693 Heat And Mass Transfer	IT8602 Mobile Communication
25-01-2020	AE8604 Aircraft Design	CE8604 Highway Engineering	CS8602 Compiler Design	EE8005 Special Electrical Machines	MG8591 Principles Of Management	ME8694 Hydraulics And Pneumatics	CS8091 Big Data Analytics
27-01-2020	AE8605 Experimental Stress Analysis	EN8592 Waste Water Engineering	CS8603 Distributed Systems	EE 8004 Modern Power Converters	EC8001 MEMS and NEMS	ME8692 Finite Element Analysis	CS8092 Computer Graphics And Multimedia
28-01-2020	AE8002 Aircraft general Engineering & maintenance practices	CE8005 Air Pollution And Control Engineering	IT8076 Software Testing	-	EC8095 VLSI Design	ME8091 Automobile Engineering	IT8076 Software Testing

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CYCLE TEST –I

TIME TABLE-(EVEN SEMESTER)

SEM/YEAR: VIII/IV **TIME: 8.40 Am To 10.10 Am**

DATE	AERO	CIVIL	CSE	EEE	ECE	MECH	IT
22-01-2020	AE6801 Wind Tunnel Techniques	MG6851 Principles Of Management	CS6801 Multi-Core Architectures And Programming	EE6801 Electric Energy Generation, Utilization and Conservation	EC6801 Wireless Communication	ME6016 Advanced IC Engines	IT6801 Service Oriented Architecture
23-01-2020	AE6015 Rockets And Missiles	CE6016 Prefabricated Structures	CS6010 Social Network Analysis	EE6009 Power Electronics For Renewable Energy Systems	EC6802 Wireless Networks	IE6605 Production Planning And Control	CS6004 Cyber Forensics
24-01-2020	-	CE6021 Repair And Rehabilitation Of Structures	GE6075 Professional Ethics In Engineering	GE6075 Professional Ethics In Engineering	GE6075 Professional Ethics In Engineering	MG6863 Engineering Economics	GE6075 Professional Ethics In Engineering
25-01-2020	-	-	-	-	GE6757 Total Quality Management	-	MG6088 Software Project Management
27-01-2020	-	-	-	-	-	-	-
28-01-2020	-	-	-	-	-	-	-

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1) M.Ram
24/12/19
S&H

2) 24/12/19 (L. SURESH RAJ)
AERO

3. (Dr. K. Arumugam)

4. 24/12/19

5. S. Venkateswaran
CIVIL

5. S. Kokila
24/12
(ECE)

6. K. SANTHISH
24/12/19
CSSE)

7 M.V.S.L Tejasri

7. M-V-S-L Tejasri
M.V.S.L Tejasri
24/12/19
(IT)

ANNA UNIVERSITY,CHENNAI-52
EXAMINATION HALL ALLOCATION TO THE CANDIDATES
THEORY EXAMINATION CYCLE TEST-I JANUARY-2020
CENTRE:1105-GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY

HALL NO	DEGREE / BRANCH	REGISTER NO.OF THE CANDIDATES	TOTAL NO.OF CANDIDATES
F4	AERO-II	110518101001,110518101003 TO110518101007, 110518101009 TO 110518101015	13
F2	AERO-II	110518101016 TO 110518101029	14
F6	AERO-III	110517101001 TO 110517101005,110517101007,110517101010, 11017101011,110517101013 TO 110517101015,110517101016 TO 110517101022,110517101025 TO 110517101027,110517101029 TO 110517101031	24
F18	AERO-IV	110516101001,110516101004, 110516101005,110516101008 TO 110516101012, 110516101014 TO 110516101019	14
F4	CIVIL-III	110517103001,110517103003, 110517103006,110517103007	4
F16	CIVIL-IV	110516103001 TO 110516103003,110516103005 TO 110516103009, 110516103303,110516103305,110516103701,110516103702	12
F5	CSE-II	110518104001 TO 110518104008,110518104010 TO110517104012	11
F7	CSE-II	110518104013TO110518104016,110518104018,110518104019, 110518104022TO110518104026,110518104028TO110518104031, 110518104033TO 110518104037,110518104039, 110518104040	22

S2	CSE-II	110518104041,110518104043 TO 110518104051,110518104053 TO 110518104056,110518104060, 110518104062 TO110518104066	20
S3	CSE-III	110517104001TO110517104004,110517104006TO110517104008, 110517104010,110517104012,110517104014, 110517104016, 110517104018TO110517104022, 110517104024 TO 110517104029	22
S4	CSE-III	110517104030,110517104032,110517104038,110517104040 TO 110517104046,110517104049 TO 110517104055, 110517104057 TO 110517104059,110517104062 ,110517104063,110517104701	23
S6	CSE-IV	110516104001 TO 11051610407,110516104009 TO 110516104012, 110516104014 TO110516104016,110516104019 TO 110516104021, 110516104025,110516104027,110516104028, 110516104029 TO 110516104032,110516104035	25
S7	CSE-IV	110516104036 TO 110516104039,110516104041 TO 110516104050,110516104052,110516104054, 110516104056 TO 110516104061,110516104301 TO 110516104302	24
F5	EEE-II	110518105001,110518105002,110518105004 TO110518105008,110518105010	8
F5	EEE-III	110517105002,110517105004 TO 110517105006,110517105008, 110517105010,110517105011,110517105013 110517105014,110517105701	10

S13	EEE-IV	110516105001,110516105004,110516105005, 110516105007 TO110516105013,110516105016,110516105017, 110516105019,110516105021 TO 110516105026,110516105307	20
S5	ECE-II	110518106001 TO 110518106004,110518106007 TO 110518106009, 110518106011,110518106013 TO 110518106022,110518106024, 110518106025,110518106027,110518106028,110518106030	23
F5	ECE-II	110518106702 TO110518106705,	4
F6	ECE-III	110517106001 TO 110517106005,110517106007 TO110517106010,110517106012 TO 110517106015,110517106017 TO 110517106020,110517106022 TO 110517106024	20
S2	ECE-III	110517106026,110517106027,110517106030,110517106032, 110517106036 TO 110517106038,110517106040,110517106041, 110517106043,110517106310,110517106312	12
F18	ECE-IV	110516106002TO110516106005,110516106007,110516106008, 110516106010TO110516106014,110516106016,110516106017,110516106019, 110516106021 TO 110516106024,110516106026, 110516106028, 110516106029,110516106031,	22
F17	ECE-IV	110516106032 TO 110516106035,110516106037 ,110516106041 TO 110516106045,110516106302 TO 110516106304, 110516106702	14
S5	MECH-II	110518114001 TO 110518114004, 110518114006, 110518114009, 110518114010	7

F3	MECH-II	110518114011,110518114012,110518114014, 110518114016 TO 110518114027,110518114030,110518114031, 110518114034 TO 110518114039,110518114337	24
F2	MECH-III	110517114003 TO110517114005,110517114007 TO 110517114010, 110517114012,110517114013,110517114015TO110517114018, 110517114020TO110517114023,110517114025,110517114026, 110517114029 TO110517114031, 110517114033	23
F4	MECH-III	110517114034,110517114035,110517114037, 110517114039 TO 110517114044,110517114046 TO 110517114053, 110517114055 TO 110517114057	20
S13	MECH-IV	110516114001,110516114003 TO 110516114006, 110516114008 TO 110516114011,110516114013,110516114015 TO 110516114021,110516114023,110516114026 TO 110516114030, 110516114032	23
S12	MECH-IV	110516114033 TO 110516114038,110516114040 TO 110516114043, 110516114045 TO 110516114053, 110516114055, 110516114056,110516114058,110516114060,110516114062	24
F16	MECH-IV	110516114063,110516114064,110516114068 TO 110516114072, 110516114311,110516114701,110516114703, 110516114901	11

S3	IT-II	110518205001,110518205002,110518205004 TO 110518205007, 110518205010 TO110518205014,110518205016 TO110518205018	14
S5	IT-III	110517205002,110517205003,110517205005,110517205007 TO 110517205013, 110517205015,110517205301	12
F17	IT-IV	110516205001,110516205002,110516205004 110516205005,110516205007 TO 110516205010, 110516205012,	9

Exam Cell Coordinator

GOLDEN SCHOOL OF BUSINESS AND TECHNOLOGY
REDHILLS, CHENNAI-52.

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:II SEM:IV

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	CE8401	Construction Techniques And Practices	Mr.S.Venkateswaran	Mr.S.Sasthaarumuga pandi
2	23/01/2020	MA8491	Numerical Methods	Mr.M.Silvester	Mrs.A.Jothimani
3	24/01/2020	CE8402	Strength Of Materials - II	Mr.S.Basilahamed	Mr.V.S.Arul
4	25/01/2020	CE8403	Applied Hydraulic Engineering	Mr.S.Sasthaarumuga pandi	Mr.S.Jothivel
5	27/01/2020	CE8404	Concrete Technology	Mr.S.Jothivel	Mr.S.Basilahamed
6	28/01/2020	CE8491	Soil Mechanics	Mr.S.Jothivel	Mr.S.Venkateswaran

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:III SEM:VI

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	CE8601	Design of steel structural elements	Mr.S.Sasthaarumuga pandi	Mr.S.Venkateswaran
2	23/01/2020	CE8602	Structural Analysis II	Mr.S.Basilahamed	Mr.S.Jothivel
3	24/01/2020	CE8603	Irrigation Engineering	Mr.S.Venkateswaran	Mr.S.Basilahamed
4	25/01/2020	CE8604	Highway Engineering	Mr.V.S.Arul	Mr.S.Sasthaarumuga pandi
5	27/01/2020	EN8592	Waste Water Engineering	Mr.S.Jothivel	Mr.V.S.Arul
6	28/01/2020	CE8005	Air Pollution And Control Engineering	Mr.S.Sasthaarumuga pandi	Mr.S.Venkateswaran

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:IV **SEM:VIII**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	MG6851	Principles Of Management	Mr.V.S.Arul	Mrs.R.M.Senthilpriya
2	23/01/2020	CE6016	Prefabricated Structures	Mr.S.Venkateswaran	Mr.S.Venkateswaran
3	24/01/2020	CE6021	Repair And Rehabilitation Of Structures	Mr.S.Jothivel	Mr.S.Jothivel
4	25/01/2020	NIL	NIL	NIL	NIL
5	27/01/2020	NIL	NIL	NIL	NIL
6	28/01/2020	NIL	NIL	NIL	NIL

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF CSE ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:II **SEM:IV**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	MA8402	Probability And Queuing Theory	Mrs.A.Jothimani	Mr.M.Joseph Robinson
2	23/01/2020	CS8491	Computer Architecture	Ms.R.Suntheya	Mr.V.Gnanasekar
3	24/01/2020	CS8492	Database Management Systems	Mr.K.Sathish	Mrs.R.Dhanapriya
4	25/01/2020	CS8451	Design And Analysis Of Algorithms	Ms.R.Dhanapriya	Mr.R.Kannan
5	27/01/2020	CS8493	Operating Systems	Mr.V.Gnanasekaran	Mrs.Sunthiya
6	28/01/2020	CS8494	Software Engineering	Mr.R.Kannan	Mr.K.SATHISH

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF CSE ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:III **SEM:VI**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	CS8651	Internet Programming	Mr.K.Sathish	Mr. Vinoth kumar
2	23/01/2020	CS8691	Artificial Intelligence	Mr.R.Kannan	Mr.K.Sathish
3	24/01/2020	CS8601	Mobile Computing	Ms.R.Dhanapriya	Mr. Vinoth kumar
4	25/01/2020	CS8602	Compiler Design	Ms.R.Suntheya	Mr.K.Sathish
5	27/01/2020	CS8603	Distributed Systems	Mr. Vinoth kumar	Ms.R.Dhanapriya
6	28/01/2020	IT8076	Software Testing	Mr.K.Anbuselvan	Mr.P.Senthil

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF CSE ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:IV **SEM:VIII**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	CS6801	Multi-Core Architectures And Programming	Mr.K.Sathish	Ms.R.Dhanapriya
2	23/01/2020	CS6010	Social Network Analysis	Ms.R.Suntheya	Ms.R.Suntheya
3	24/01/2020	GE6075	Professional Ethics In Engineering	Mr.R.Kannan	Mr.R.Kannan
4	25/01/2020	NIL	NIL	NIL	NIL
5	27/01/2020	NIL	NIL	NIL	NIL
6	28/01/2020	NIL	NIL	NIL	NIL

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF EEE ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:II **SEM:IV**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	EE8401	Electrical Machines -II	Mr.Velmurugan	Ms.Sabhana
2	23/01/2020	MA8491	Numerical Methods	Mr.Ajith	Mrs.A.Jothimani
3	24/01/2020	IC8451	Control Systems	Ms.Sabhana	Mr.Velmurugan
4	25/01/2020	EE8403	Measurements And Instrumentation	Mr.G.Sivakumar	Ms.Sabhana
5	27/01/2020	EE8451	Linear Integrated Circuits And Applications	Mr.Nantha kumar	Dr.S.Sathya
6	28/01/2020	EE8402	Transmission And Distribution	Mrs.Nanthini	Mr.Velmurugan

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF EEE ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:III **SEM:VI**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	EE8601	Solid State Drives	Mr.Velmurugan	Mrs.K.Balamaheswari
2	23/01/2020	EE8602	Protection And Switchgear	Mr.G.Arunsankar	Ms.Sabhana
3	24/01/2020	EE8691	Embedded Systems	Ms.Nishmitha	Mr.K.Nandhakumar
4	25/01/2020	EE8005	Special Electrical Machines	Mr.G.Sivakumar	Mrs.Nandhini
5	27/01/2020	EE 8003	Power System Stability	Mrs.Nandhini	Ms.Sabhana
6	28/01/2020	NIL	NIL	NIL	NIL

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF EEE ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:IV **SEM:VIII**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	EE6801	Electric Energy Generation, Utilization and Conservation	Ms.Sabhana	Ms.Sabhana
2	23/01/2020	EE6009	Power Electronics For Renewable Energy Systems	Mrs.C.Sankari	Mrs.C.Sankari
3	24/01/2020	GE6075	Professional Ethics In Engineering	Mr.G.Sivakumar	Mrs.K.Balamaheswari
4	25/01/2020	NIL	NIL	NIL	NIL
5	27/01/2020	NIL	NIL	NIL	NIL
6	28/01/2020	NIL	NIL	NIL	NIL

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF ECE ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:II **SEM:IV**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	MA8451	Probability and Random Processes	Mr.M.Joseph Robinson	Mr.G.Karthik
2	23/01/2020	EC8451	Electromagnetic Fields	Mr.S.Venkat	Dr.S.Sathya
3	24/01/2020	EC8452	Electronic Circuits-II	Mrs.S.Kokila	Mr.J.Sreesankar
4	25/01/2020	EC8453	Linear Integrated Circuits	Dr.S.Sathya	Mrs.S.Kokila
5	27/01/2020	EC8491	Communication Theory	Mr.J.Sreesankar	Mr.K.Nantha kumar
6	28/01/2020	GE8291	Environmental Science and Engineering	Mr.K.Venkatesh	Mrs.J.Jasmine

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF ECE ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:III **SEM:VI**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	EC8651	Transmission Lines and RF Systems	Mr.S.Venkat	Mr.J.Sreesankar
2	23/01/2020	EC8652	Wireless Communication	Mr.K.Nantha kumar	Ms.Nishmitha
3	24/01/2020	EC8691	Microprocessor And Microcontroller	Ms.Nishmitha	Dr.S.Sathya
4	25/01/2020	MG8591	Principles Of Management	Mr.J.Sreesankar	Mrs.R.M.Senthilpriya
5	27/01/2020	EC8001	MEMS and NEMS	Dr.S.Sathya	Mr.J.Sreesankar
6	28/01/2020	EC8095	VLSI Design	Mrs.R.M.Senthilpriya	Ms.Nishmitha

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF ECE ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:IV **SEM:VIII**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	EC6801	Wireless Communication	Mr.K.Nantha kumar	Ms.Nishmitha
2	23/01/2020	EC6802	Wireless Networks	Ms.Nishmitha	Ms.Nishmitha
3	24/01/2020	GE6075	Professional Ethics In Engineering	Dr.S.Sathya	Mr.S.Venkat
4	25/01/2020	GE6757	Total Quality Management	Mrs.R.M.Senthilpriya	Mrs.R.M.Senthilpriya
5	27/01/2020	NIL	NIL	NIL	NIL
6	28/01/2020	NIL	NIL	NIL	NIL

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF MECH ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:II **SEM:IV**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	MA8452	Statistics And Numerical Methods	Mr.M.Silvester	Mrs.P.Pushpa
2	23/01/2020	ME8451	Manufacturing Technology-II	Mr.A.Shyam	Mr.R.Vinothkumar
3	24/01/2020	ME8492	Kinematics Of Machinery	Mr.R.Vinothkumar	Mr.R.Srinivasan
4	25/01/2020	CE8395	Strength of Materials for Mechanical Engineers	Mr.G.Sandeep kumar	Mr.Karthigarajan
5	27/01/2020	ME8493	Thermal Engineering-I	Mr.Karthigarajan	Mr.S.Ramu
6	28/01/2020	ME8491	Engineering Metallurgy	Mr.S.Ramu	Mr.G.Ranjith

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF MECH ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:III **SEM:VI**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	ME8651	Design Of Transmission Systems	Mr.Karthigarajan	Mr.G.Ranjith
2	23/01/2020	ME8691	Computer Aided Design And Manufacturing	Mr.G.Sandeep kumar	Mr.A.Shyam
3	24/01/2020	ME8693	Heat And Mass Transfer	Mr.G.Ranjith	Mr.S.Ramu
4	25/01/2020	ME8694	Hydraulics And Pneumatics	Mr.R.Srinivasan	Mr.R.Vinothkumar
5	27/01/2020	ME8692	Finite Element Analysis	Mr.S.Ramu	Mr.R.Srinivasan
6	28/01/2020	ME8091	Automobile Engineering	Dr.K.Arumugam	Dr.K.Arumugam

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY
DEPARTMENT OF MECH ENGINERING
CYCLE TEST -I PAPER EVALUATION

YEAR:IV **SEM:VIII**

S.NO	DATE	SUBJECT CODE	SUBJECT NAME	NAME OF THE FACULTY	NAME OF THE EXAMINER
1	22/01/2020	ME6016	Advanced IC Engines	Mr.Karthigarajan	Mr.Karthigarajan
2	23/01/2020	IE6605	Production Planning And Control	Mr.G.Ranjith	Mr.G.Ranjith
3	24/01/2020	MG6863	Engineering Economics	Mr.G.Sandeep kumar	Mr.G.Sandeep kumar
4	25/01/2020	NIL	NIL	NIL	NIL
5	27/01/2020	NIL	NIL	NIL	NIL
6	28/01/2020	NIL	NIL	NIL	NIL

Exam Cell Coordinator

Vice- Principal

Reg. No. : | | | | | | | | | | | | | |

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY,CHENNAI-52

CYCLE TEST- I

JANUARY – 2020.

BRANCH : COMPUTER SCIENCE AND ENGINEERING	**DATE : 24/01/2020**
YEAR/SEM : II/IV	**TIME : 8.40 AM TO 10.10 AM**
SUB. CODE / TITLE : CS8492/ Database Management system	**MAX MARKS : 50 Marks**
QUESTION SET : 1	**NO.OF COPIES : 57**

Cognitive Level		
K1- Remembering	K3- Applying	K5- Evaluating
K2- Understanding	K4- Analyzing	K6- Creating

Answer ALL questions

PART - A (5 × 2 = 10 Marks)

Q.NO	Questions	COURSE OUTCOME	BL
1.	What is a data dictionary? Give example.	CO1	K2
2.	What are aggregate functions? List the aggregate functions supported by SQL.	CO1	K1
3.	What is a data model? List the types of data models used.	CO1	K1
4.	Generalize your view Semi structured data model.	CO1	K1
5.	Define weak entity. Show with example.	CO2	K3

PART - B (2 × 13 = 26 Marks)

Q.NO			Questions	Marks	COURSE OUT COME	BLOOM'S LEVEL
6	a.	i	Describe about views of data.	(7)	CO1	K2
		ii	What are the functions of database administrator?	(6)	CO1	K2
			(OR)			
	b.	i	Describe the aggregate functions in SQL with an example.	(7)	CO1	K1
		ii	Examine about Data Models	(6)	CO1	K3
7	a.		Briefly discuss about the functional dependency concepts.	(13)	CO2	K2
			(OR)			
	b.		Develop an E-R diagram for a car insurance company whose customers own one or more cars each. Each car has associated with it zero to any number of recorded accidents. Each insurance policy covers one or more cars, and has one or more premium payments associated with it. Each payment is for a particular period of time, and has an associated due date, and the date when the payment was received.	(13)	CO2	K6

PART – C (1× 14 = 14 Marks)

8	a.	Consider the following relations for a company Database Application: Employee(Eno, Name, Sex, Dob, Doj, Designation, Basic_Pay, Deptno) Department(Dept_no, Name) Project(Proj_no, Name, Dept_no) Worksfor(Eno, Proj_no, Date, Hours) The attributes specified for each relation is self-explanatory. However the business rules are stated as follows. A department can control any number of projects. But only one department can control a project. An employee can work on any number of projects on a day. However an employee cannot work more than once on a project he she worked on that day. The primary keys are underlined. (i) Identify the foreign keys. Develop DDL to implement the above schema.(3) (ii) Develop an SQL query to list the department number and the number of employees in each department.(4) (iii) Develop a view that will keep track of the department number, the number of employees in the department, and the total basis pay expenditure for each department.(4) (iv) Develop an SQL query to list the details of employees who have marked in more than three projects on a day.(4)	(14)	CO1	K6
		(OR)			
	b.	A car rental company maintains a database for all vehicles in its current fleet. For all vehicles, it includes the vehicle identification number, license number, manufacturer, model, date of purchase, and color. Special data are included for certain types of vehicles. • Trucks: cargo capacity. • Sports cars: horsepower, renter age requirement. • Vans: number of passengers. • Off-road vehicles: ground clearance, drivetrain (four- or two-wheel drive). Assess and Construct an ER model for the car rental company database.	(14)	CO2	K5

Fulfillment of Bloom's Taxonomy—Details

Cognitive Level	% Coverage
K1 (Remembering)	14.40%
K2 (Understanding)	31.10%
K3(Applying)	08.80%
K4 (Analyzing)	30.00%
K5 (Evaluating)	15.50%
K6 (Creating)	--

SIGNATURE OF ECM

HOD

Reg. No. : | | | | | | | | | | | | | |

GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY,CHENNAI-52

CYCLE TEST- I

JANUARY – 2020.

BRANCH : COMPUTER SCIENCE AND ENGINEERING	**DATE : 24/01/2020**
YEAR/SEM : II/IV	**TIME : 8.40 AM TO 10.10 AM**
SUB.CODE / TITLE : CS8492/ Database Management system	**MAX MARKS : 50 Marks**
QUESTION SET :2	**NO.OF COPIES : 57**

Cognitive Level		
K1- Remembering	K3- Applying	K5- Evaluating
K2- Understanding	K4- Analyzing	K6- Creating

Answer ALL questions

PART - A (5 × 2 = 10 Marks)

Q.NO	Questions	COURSE OUTCOME	BL
1.	Point out the importance of Object based data model.	CO1	K4
2.	List any five applications of DBMS.	CO1	K1
3.	Discuss about relational data model.	CO1	K2
4.	List the purpose of Database Management System.	CO2	K1
5.	What is embedded SQL? List its advantages.	CO2	K1

PART - B (2 × 13 = 26 Marks)

	Q.NO		Questions	Marks	COURSE OUT COME	BLOOM'S LEVEL
6	a.		With the help of the block diagram, describe the basic architecture of a database management system.	(13)	CO1	K1
			(OR)			
	b.	i	Describe about views of data.	(7)	CO1	K2
		ii	What are the functions of database administrator?	(6)	CO1	K2
7	a.	i	Develop an E-R diagram for a car insurance company whose customers own one or more cars each. Each car has associated with it zero to any number of recorded accidents. Each insurance policy covers one or more cars, and has one or more premium payments associated with it. Each payment is for a particular period of time, and has an associated due date, and the date when the payment was received.	(13)	CO2	K1
			(OR)			
	b.	i	Briefly discuss about the functional dependency concepts.	(7)	CO2	K4
		ii	Describe the aggregate functions in SQL with an example.	(6)	CO1	K1

PART – C (1× 14 = 14 Marks)

8	a.	Discuss about an employee detail relation and explain referential integrity using SQL queries. (15) Consider a student registration database comprising of the below given table schema. • Student File Student Number Student Name Address	(14)	CO1	K2

Telephone.

- Course File Course Number Desc Hours Professor Number.
- Professor File Professor Number Name Office.
- Registration File Student Number Course Number Date.

(OR)

b.	Explain ER model by taking Hospital management/Banking System/University Database as case study.	(14)	CO1	K2

Fulfillment of Bloom's Taxonomy—Details

Cognitive Level	% Coverage
K1 (Remembering)	42.20%
K2 (Understanding)	47.70%
K3(Applying)	--
K4 (Analyzing)	10.00%
K5 (Evaluating)	--
K6 (Creating)	--

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