

S.	Subject / Specialization	About the Subject	SDG Mapped	Semester	College / School / Department
No.	Strategies for visual communication	Group project, towards community martket to promote sustainable living	10,11,12	7 (2020)	Department of Communication Design ,
2	Systems  Content, Context and Interaction	students chose their own theme based in SDGs related to digital ecosystem	5, 13,14,15,16	7 (2020)	Chitkara Design School  Department of Communication Design ,  Chitkara Design School
3	Digital Interfaces and Process	Students work on new Technology such as AR / VR	9,17	6 (2019)	Chitkara Design School  Department of Communication Design , Chitkara Design School
4	Design Concepts & Concerns	Studying the eco system of near by villages	3,4,6	3 (2021)	Department of Communication Design , Chitkara Design School
5	Project -1 Social Communication	Developing participatory understanding of team work, problem solving.	5,10	3 (2021)	Department of Communication Design , Chitkara Design School
6	Disaster management	Students learn about the protective measures in relation to disaster management and the visual communication methods to disseminate the information related to same	12,13,14,15	3 (2022)	Department of Communication Design , Chitkara Design School
7	Indoor Environment Control	This subject incorporates understanding the importance of human comfort in built form and environment and at the same time to understand the impact of climate on human comfort, the passive design measures, techniques and technologies for green interior design	4,7,11	3rd, 4th sem	
	Indoor Environment Control	along its applications of green interiors in residences; hospitality spaces; commercial spaces; offices and public spaces.	4,7,11	(B.des)	Department Of Interior Design
8	Sustainable Interiors	This subject highlights on understanding the complexities of the design of sustainable buildings along with how to select materials to decrease environmental impacts at the local level	4,7,11	3rd sem (B.Des)	Department Of Interior Design
9	Cost Effective Interiors	The course objective is to introduce the study of cost effectiveness in building construction, to familiarize the students with study of cost effective building components and materials and to do critical analysis of concepts learnt through case examples.	4,7,11	4th sem (B.Des)	Department Of Interior Design
		The aim and objective of this course is to develop awareness amongst students regarding the nature of environmental resources as well		5th sem	
10	Environmental Studies	as the role and importance of these in improving the quality of human habitat, to acquaint students with various factors causing environmental deterioration and degradation and the available preventive and remedial to safeguard the environmental resources.	4,7,11	(B.des)	Department Of Interior Design
11	Ecology and Landscape Elements	This course highlights on the study of the concepts of interior landscaping and their application in the design of interior spaces, to develop an understanding about the design of interior landscape with special emphasis on the choice and care of plant materials used in	4,7,11	6th sem	Department Of Interior Design
	Introduction to Building Energy	the interior spaces.  This course highlights on understanding the concept and benefits of energy efficiency in buildings, the methodology used to determine		(B.des)	
12	Efficiency	the energy efficiency of buildings, the opportunities and measures for reducing energy use in buildings without sacrificing comfort levels.	4,7,11	(M.Des)	Department Of Interior Design
13	Interior Landscaping	This course covers the study of the concepts of interior landscaping and their application in the design of interior spaces along with developing an understanding about the design of interior landscape with special emphasis on the choice and care of plant materials	4,7,11	3rd sem (M.Des)	Department Of Interior Design
14	Contribute Desire	used in the interior spaces.  This subject aim to understand and analyze the effects of consumerism on the environment, to apply sustainable practices in everyday	4711	3rd sem	December Of Levils Decis
14	Sustainable Design	life and evaluate contemporary products and solutions to environmental design issues in the built environment.	4,7,11	(M.Des)	Department Of Interior Design
15	Electrical and Electronics Lab	Explore electrical components, motor control, and sensors in-depth. Investigate voltage regulation using zener diodes and assess the performance of rectifiers and transistors.  Explore matrices, eigenvalues, and optimization techniques for functions of multiple variables, including applications of double and	4,9	1st	B.E Mechanical Engineering
16	Calculus and Matrices	triple integrals. Study partial differentiation, Taylor's and Maclaurin's expansions, and matrix differentiation.	4,9 3, 4, 6,7,8,9,	1st	B.E Mechanical Engineering
17	Design Thinking	Development of the technical skills in design and CAD using concept sketeches, 2D and 3D technical drawing and modeling.  Calculations of Resultant forces and moments of different kinds of force systems, Analysis of trusses and calculations of centroid and	11,12,13,14,15	1st	B.E Mechanical Engineering
18	Engineering Physics	center of gravity of plane laminas	4,9	1st	B.E Mechanical Engineering
19	Engineering Physics Lab	Study FeCl3 susceptibility, ionization potential of mercury, wavelength of light (Michelsons Interferometer), laser beam angular divergence, optical fiber numerical aperture, magnetic field in circular coil, Hall effect in semiconductor, Plank's constant (LEDs).	4,9	1st	B.E Mechanical Engineering
20	Environmental Sciences Programming for Engineering Problem	Environmental studies encompass sustainability, ecosystems, biodiversity, pollution, and human-environment interactions.  The students get hands on experience of solving problems through C-programming. The students are able to determine and demonstrate	4, 6, 7, 11, 14, 15	1st	B.E Mechanical Engineering
21	Solving Proplem	bugs in a program and recognize needed basic operations. Students develop the skill to formulate new solutions for programming problems or improve existing code to program effectively	4,9	1st	B.E Mechanical Engineering
22	Engineering Materials and Metallurgy	Detailed study of engineering materials with classification and properties. Various testing methods. Phase diagram of various alloy systems. Heat treatment processes and their applications.	4,9	1st	B.E Mechanical Engineering
23	Engineering Materials and Metallurgy Lab	Hands on Experience on various materials testing equipment such as Microscope, hardness testing machine, and end quench test etc.	4,9	1st	B.E Mechanical Engineering
24	Mathematical Models in Engineering	Study Fourier series expansions, transforms, and applications in solving ordinary and partial differential equations. Explore complex variables, integration, and apply Laplace transforms for differential equation solutions.	4,9	2nd	B.E Mechanical Engineering
25 26	Technical Communication Engineering Exploration	Forms of Technical Communication, Technoical presentation, Kinesics & Voice Dynamics:  Design and fabrication of the projects, interdisciplinary projects for solving community problems, Team formation methods for project words.	4,8 3, 4, 6, 7,8,9, 11,12,13,14,15	2nd 2nd	B.E Mechanical Engineering B.E Mechanical Engineering
27	Human Values & Professional Ethics	wors.  Promote human rights and value education, emphasizing gender equality, character development, and addressing issues like gender discrimination, female feticide, and child labor.	3, 4, 5, 10	2nd	B.E Mechanical Engineering
28	Thermodynamics	Design and implement C++ programs for complex problems, making good use of the features of the language such as classes,	4,9	2nd	B.E Mechanical Engineering
29	Object Oriented Programming	inheritance and templates	4,9	2nd	B.E Mechanical Engineering
30	Rigid Body Dynamics	Study of the kinematics and dynamics of particles and rigid bodies in 2D and 3D motion, Rotations, translations, and oscillations  Hands on experience to various shops such as welding, sheet metal, carpentry, as well as machine shops for various operations on	4,9	2nd 2nd	B.E Mechanical Engineering
32	Foundation Workshop  APPLIED THERMODYNAMICS-I	workpiece Students learned different air standard cycle on which different power plant works.	4,9	3rd	B.E Mechanical Engineering  B.E Mechanical Engineering
33	MANUFACTURING SCIENCE	Detailed concept of various manufacturing processes such as casting, welding, machining along with mehanical working process, their	4,9	3rd	B.E Mechanical Engineering
34	MANUFACTURING SCIENCE LAB	applications & use in the industries.  Hands on experience of various welding processes, machining processes and caasting process aling with sand testing and mould	4,9	3rd	B.E Mechanical Engineering
35	THEORY OF MACHINE	making.  Explore links, mechanisms, and force analysis, including cam types and gear systems. Study balancing in rotating and reciprocating masses, covering locomotives and V-engines, and understand the principles of governors.	4,9	3rd	B.E Mechanical Engineering
36	THEORY OF MACHINE (LAB) REFRIGERATION AND AIR	Hand on learning on governor, cam, gears, balancing, gyroscope	4,9	3rd	B.E Mechanical Engineering
37	CONDITIONING REFRIGERATION AND AIR	Cooling load estimation, Refrigeration machine functioning and capacity estimation.	4,9	3rd	B.E Mechanical Engineering
38	CONDITIONING LAB MACHINE DRAWING	Cooling Load estimations, COP calculations of refrigerating machine  Introduction and practice on manual drawing creation for various mechanical parts and their assembly.	4,9 4,9	3rd 3rd	B.E Mechanical Engineering B.E Mechanical Engineering
40	MATHEMATICS WITH PYTHON	The simulations cover various applications, including projectile and vehicle motion, pendulum dynamics, and system analyses using numerical techniques, highlighting diverse mathematical and engineering principles.	4,9	3rd	B.E Mechanical Engineering
41	COMPUTER GRAPHICS	Analysis and use of engineering computer graphics and solid modelling techniques for mechanical engineering applications.	4,9	4th	B.E Mechanical Engineering
42	COMPUTER GRAPHICS (LAB)	Design components, systems and/ or processes to meet required specification	4,9	4th	B.E Mechanical Engineering
43	APPLIED THERMODYNAMICS-II	Detailed concepts of different type of engines and different type of ignition system. how we can control emission.	4,9	4th	B.E Mechanical Engineering
44	INTRODUCTION TO DATA SCIENCE	Formulation and use appropriate models of data analysis to solve hidden solutions to business-related challenges.	4, 8, 12, 13	4th	B.E Mechanical Engineering
45	APPLIED THERMODYNAMICS-II LAB	Hands on learning and training on IC engines and thermal equipment to study and analyse various thermodynamic principles	4,9	4th	B.E Mechanical Engineering
46	STRENGTH OF MATERIALS	Calculation of shear force, bending moments, bending stresses and shear stresses in different types of beams. calculation of torsion moments in different types of shaft	4,9	4th	B.E Mechanical Engineering
47	STRENGTH OF MATERIALS LAB	Hand on experience on strength testing, impact testing, torsion testing machine  Course delivers the student a detailed concept about the working of automotive components such as transmission, suspension, braking	4,9	4th	B.E Mechanical Engineering
48	AUTOMOBILE ENGINEERING AUTOMOBILE ENGINEERING	Course derives the statement of the stat	4,9	4th	B.E Mechanical Engineering
50	(LAB)	cooling system	4,9	4th 4th	B.E Mechanical Engineering
50	COMPUTER AIDED ENGINEERING FLUID MECHANICS	Designing of the different components and extraction of volume using ANSYS software package.  Study of behaviour of various fluids in statics, dynamics and kinematics conditions.	4,9 4,9	4th 4th	B.E Mechanical Engineering B.E Mechanical Engineering
52	FLUID MECHANICS LAB	Hand on experience of various experiments those determine the behaviour of fluid in static, kinematic and dynamic conditions.	4,9	4th	B.E Mechanical Engineering
53	COMPUTER GRAPHICS	Analysis and use of engineering computer graphics and solid modelling techniques for mechanical engineering applications.	4,9	5th	B.E Mechanical Engineering
54	COMPUTER GRAPHICS (LAB)	Design components, systems and/ or processes to meet required specification	4,9	5th	B.E Mechanical Engineering
55	PROJECT - 2 (ANALYTICAL /CONCEPTUAL DESIGN) CNC MACHINING &	prototype development, fabrication of setups, laboratory experiment development, process modification/development  Constructional details of CNC machines, Fundamentals of Part Programming, Part programming using sub routines, Do loops and	3, 4, 6,7,8,9, 11,12,13,14,15	5th	B.E Mechanical Engineering
56	PROGRAMMING CNC MACHINING &	canned cycles	4,9	5th	B.E Mechanical Engineering
57	PROGRAMMING (LAB)	Study of various types of G - Codes and M - Codes used in CNC machine. Practice of writing the Part programming  Course delivers the student a detailed concept about the working of automotive components such as transmission, suspension, braking	4,9	5th	B.E Mechanical Engineering
58	AUTOMOBILE ENGINEERING AUTOMOBILE ENGINEERING	Course derives the statement of the definition of the working of automotive components such as nationalisms, unspension, triaking and handling.  Students perform experiments related to steering geometry and its calibration, troubleshooting in braking and transmission and engine	4,9	5th	B.E Mechanical Engineering
59	(LAB)	cooling system	4,9	5th	B.E Mechanical Engineering
60	FLUID MACHINERY FLUID MACHINERY (LAB)	Detailed concept of various types of turbines and pumps, analysis of the performance aspects of fluid machinery for turbines and pump  Hands-on experience in operation of turbines and pumps and their calibration in Laboratory	4,9 4,9	5th 5th	B.E Mechanical Engineering B.E Mechanical Engineering
62 63	HEAT TRANSFER HEAT TRANSFER (LAB)	Detailed concept of heat transfer and design different type of fins for maximum heat transfer with different parameters.  Students determine the thermal conductivity of different materials and analyse its effects on heat transfer.	4,9 4,9	5th 5th	B.E Mechanical Engineering B.E Mechanical Engineering
64	SUMMER INTERNSHIP (4 WEEKS)	To cultivate student's leadership ability and responsibility to perform or execute the given task.	3, 4, 6,7,8,9, 11,12,13,14,15	5th	B.E Mechanical Engineering
65	MACHINE DESIGN - I	Calculations of design specifications of shafts, keys and couplings. Design of Riveted, welded and Bolted joints.  HVAC Fundamentals: Covers HVAC system components, ductwork basics, air terminals, special ducts, diffusion principles, and duct	4,9	5th	B.E Mechanical Engineering
	DUCTING AND PIPING DESIGN	design methods. Piping Essentials: Introduces piping principles, systems, valves, insulation, sizing, and applications for water, steam, and gas systems.  Study of babacing of various fluids in statics, dynamics and kinamatics conditions.	4,9	5th	B.Tech - Mechanical Engineering
67	FLUID MECHANICS	Study of behaviour of various fluids in statics, dynamics and kinematics conditions.	4,9	5th	B.Tech - Mechanical Engineering



68	FLUID MECHANICS LAB	Hand on experience of various experiments those determine the behaviour of fluid in static, kinematic and dynamic conditions.	4,9	5th	B.Tech - Mechanical Engineering
	HVAC CONTROLS & ENERGY	Control systems aim to maintain room conditions, optimize energy use, and ensure safety through loops, sensors, and various controls.			
69	MANAGEMENT HVAC CONTROLS & FABRICATION	The system includes DDC, PLC, sensors like temperature, and aspects like tuning, fault detection, and functional controls.	4,9	5th	B.Tech - Mechanical Engineering
/0	LAB	Overview of SMPS types and HVAC control devices. Study of VFD, HMI in Psychometry, and BMS sensor selection.	4,9 3, 4, 6,7,8,9,	5th	B.Tech - Mechanical Engineering
71	MINOR PROJECT	Conceptual design and analytical design	11,12,13,14,15	5th	B.Tech - Mechanical Engineering
72	POWER PLANT ENGINEERING	Comprehensive overview of power plants, including thermal (Rankine cycle, diesel, gas), nuclear, and combined cycle plants. Detailed coverage of plant components, efficiency, and environmental considerations for diverse power generation methods.	4,9	5th	B.Tech - Mechanical Engineering
73	THEORY OF MACHINE	To introduce the approaches and mathematical models used in kinematic and dynamic analysis of machinery, basic knowledge on mechanical vibrations	4,9	5th	B.Tech - Mechanical Engineering
	THEORY OF MACHINES LAB PROJECT-3	Hand on learning on governor, cam, gears, balancing, gyroscope  Engineering practice for students and application of knowledge from different areas of engineering, which they have studied in their	4,9 3, 4, 6,7,8,9,	5th 6th	B.Tech - Mechanical Engineering B.E Mechanical Engineering
	LIFE SKILLS	eurriculum using methods, tools and techniques.  Personality development, resume writing, soft skills and mock interviews	11,12,13,14,15	6th	B.E Mechanical Engineering
77	AUTOMOTIVE MANUFACTURING	To understand the construction and working of various sheet metal processes, different types of chassis frames and various assembly and testing techniques of vehicles.	4,9	6th	B.E Mechanical Engineering
	CAD/CAM CAD/CAM LAB	Understand the role of CAD in mechanical component design by creating geometric models and engineering drawings.  Creation and validation of NC part program using standard commercial CAM package for manufacturing of required component using	4,9 4,9	6th 6th	B.E Mechanical Engineering B.E Mechanical Engineering
80	INDUSTRIAL ENGINEERING	CNC milling or turning applications.  Explore Industrial Engineering, encompassing management concepts, organizational design, productivity methods, work analysis, motion economy, work measurement, and value engineering.	4,9	6th	B.E Mechanical Engineering
81	MACHINE DESIGN-II	Information (Continus, work incasturation, and value clarified in a distribution of their application. Study the effect of various forces acting on belts, rope, chains, springs, bearings and gears.	4,9	6th	B.E Mechanical Engineering
82	ROBOTICS AND HUMANOIDS	AI Problem Solving and Searching, Independently analyze and communicate analysis of new robotics research and technologies	4,9	6th	B.E Mechanical Engineering
	ROBOTICS AND HUMANOIDS LAB	Robot Programming with Computer Simulation Software, Solving Robot Arm Kinematics with Software	4,9	6th	B.E Mechanical Engineering
	PRESS TOOL TECHNOLOGY	Design of blanking, Piercing Dies and Bending Dies to produce V, L and U Shaped Bend components  Covering Vedic Mathematics, basic operations, percentages, time and work, set theory, logical reasoning, number systems, data	4,9	6th	B.E Mechanical Engineering
85	ENGINEERING APTITUDE SKILLS	interpretation, quantitative analysis, coding-decoding, geometry, trigonometry, and various puzzle-solving techniques for comprehensive mathematical aptitude.	4	6th	B.E Mechanical Engineering
86 87	VEHICLE DYNAMICS	Study of vehicle performance as well as related tests and regulations, study of the traction and brake, ride and handling dynamics theory, as well as theory and design of vehicle control system.	4,9	6th	B.E Mechanical Engineering
	VEHICLE DYNAMICS LAB JIGS AND FIXTURES	Analysis of various dynamic behavior of road vehicles under various loading conditions using various tests  Study and design of various Drill jigs and machining fixtures and inspection devices  Introduction to computational fluid dynamics (CFD) covering finite volume method and Navier-Stokes equations, emphasizing pre-	4,9	6th 6th	B.E Mechanical Engineering B.E Mechanical Engineering
89	COMPUTATIONAL FLUID DYNAMICS LAB	processing (geometry, meshing) and post-processing (results extraction). 3D modeling, laminar and turbulent flow simulations, and heat conduction studies.	4,9	6th	B.Tech - Mechanical Engineering
90	DESIGN EXCELLENCE TOOLS	Conduction studies.  Geometric dimensions and tolerances, Design failure mode analysis, Production Management System, Product lifecycle, 5-WHY analysis, Root cause analysis, ANSYS software applications.	4,9	6th	B.Tech - Mechanical Engineering
91	DISASTER MANAGEMENT	Explore disaster management covering classification, impacts, risk reduction, and institutional aspects, emphasizing local involvement.	13, 14, 15	6th	B.Tech - Mechanical Engineering
	HUMAN VALUES AND	Address global trends, pandemics, climate change, and the role of indigenous knowledge in disaster resilience.  Promote human rights and value education, emphasizing gender equality, character development, and addressing issues like gender	3, 4, 5, 10	6th	B.Tech - Mechanical Engineering
	PROFESSIONAL ETHICS	discrimination, female feticide, and child labor.  Overview of Internal Combustion Engines: Examines historical development, air standard cycles, and working principles of 2-stroke			
93	INTERNAL COMBUSTION ENGINES	and 4-stroke engines. Discusses fuel-air cycles, combustion, mixture preparation, emissions, and control methods, emphasizing pollutants and exhaust gas treatment.	4,9	6th	B.Tech - Mechanical Engineering
94	INTERNAL COMBUSTION ENGINES LAB	Study construction and operation of two-stroke/four-stroke petrol and diesel engines, analyze exhaust gases, and determine heat balance and indicated horse power (HP). Conduct variable and constants speed performance tests, evaluating parameters like BHP, FHP, volumetric efficiency, MEP, SFC, and measuring emissions such as CO, hydrocarbons, and smoke intensity.	4,9	6th	B.Tech - Mechanical Engineering
95	LIFE SKILLS-II	Personality development, resume writing, soft skills and mock interviews  Covering Vedic Mathematics, basic operations, percentages, time and work, set theory, logical reasoning, number systems, data	4	6th	B.Tech - Mechanical Engineering
96	NUMERICAL ABILITY & LOGICAL REASONING	interpretation, quantitative analysis, coding-decoding, geometry, trigonometry, and various puzzle-solving techniques for comprehensive mathematical aptitude.	4	6th	B.Tech - Mechanical Engineering
97	MECHANICAL VIBRATION AND CONDITION MONITORING	Spring-mass-damper system, Analysis of influence of the parameters involved in the governing equations of the system.	4,9	7th	B.E Mechanical Engineering
98	MECHANICAL VIBRATION AND CONDITION MONITORING LAB	Hand on experience of experiments on Spring-mass-damper system, Analysis of influence of the parameters involved in the governing equations of the system.	4,9	7th	B.E Mechanical Engineering
99	PROJECT MANAGEMENT	Project Management Concepts, Project Organization & Project Contracts, Project Planning & Scheduling, Network Models	4,9	7th	B.E Mechanical Engineering
	DISASTER MANAGEMENT	Explore disaster management covering classification, impacts, risk reduction, and institutional aspects, emphasizing local involvement.	13, 14, 15	7th	B.E Mechanical Engineering
	HUMAN VALUES AND	Address global trends, pandemics, climate change, and the role of indigenous knowledge in disaster resilience.  Promote human rights and value education, emphasizing gender equality, character development, and addressing issues like gender			
101	PROFESSIONAL ETHICS	discrimination, female feticide, and child labor.	3, 4, 5, 10	7th	B.E Mechanical Engineering
102	NON DESTRUCTIVE TESTING REFRIGERATION AND AIR	Testing Methods for the detection of manufacturing defects as well as material characterization	4,9	7th 7th	B.E Mechanical Engineering B.E Mechanical Engineering
103	CONDITIONING REFRIGERATION AND AIR	Cooling load estimation, Refrigeration machine functioning and capacity estimation.  Cooling Load estimations, COP calculations of refrigerating machine	4,9	7th	B.E Mechanical Engineering
	CONDITIONING LAB	Students gain familiarity with prevalent network and distributed system attacks, defenses against them, and forensics to investigate the			
	CYBER SECURITY	aftermath. Thus, the students are developed with ethical hacking skills and will be well-aware of cyber crimes.	4,9	7th	B.E Mechanical Engineering
	CO-OP PROJECT AT INDUSTRY	Project work, Report writing, Awareness and hierarchy of a small company	3, 4, 6,7,8,9, 11,12,13,14,15 3, 4, 6,7,8,9,	7th	B.Tech - Mechanical Engineering
	INDUSTRIAL TRAINING	Project work, Report writing, Awarnes and hierarchy of a small company	11,12,13,14,15	7th	B.Tech - Mechanical Engineering
-	CO-OP PROJECT AT INDUSTRY INDUSTRY ORIENTED HAND ON	Project work, Report writing, Awarnes and hierarchy of a small company	9	8th	B.E Mechanical Engineering
	EXPERIENCE	Project work, Report writing, Awarnes and hierarchy of a small company  System architecture, computer graphics, geometric modeling of curves and surfaces (Hermite, Bezier, B-spline), solid modeling (CSG,	9	8th	B.E Mechanical Engineering
110	COMPUTER AIDED DESIGN	B-rep), visual realism, assembly of parts, and CAD standards such as GKS, OpenGL, and data exchange standards like IGES and STEP.	4,9	8th	B.Tech - Mechanical Engineering
111	CYBER SECURITY	Students gain familiarity with prevalent network and distributed system attacks, defenses against them, and forensics to investigate the aftermath. Thus, the students are developed with ethical hacking skills and will be well-aware of cyber crimes.	4,9	8th	B.Tech - Mechanical Engineering
112	DESIGN OF MACHINE ELEMENTS	The course introduces various elements of machine design and understanding of their application. Study the effect of various forces	4,9	8th	B.Tech - Mechanical Engineering
	DISASTER MANAGEMENT	acting on belts, rope, chains, springs, bearings and gears.  Explore disaster management covering classification, impacts, risk reduction, and institutional aspects, emphasizing local involvement.	13, 14, 15	8th	B.Tech - Mechanical Engineering
	HUMAN VALUES AND	Address global trends, pandemics, climate change, and the role of indigenous knowledge in disaster resilience.  Promote human rights and value education, emphasizing gender equality, character development, and addressing issues like gender			
	PROFESSIONAL ETHICS	discrimination, female feticide, and child labor.  Analyzing India's constitutional law, including its historical evolution, fundamental features, rights, duties, directive principles, federal	3, 4, 5, 10	8th	B.Tech - Mechanical Engineering
115	INDIAN CONSTITUTION	structure, parliamentary system, presidential powers, constitutional amendments, emergency provisions, and the framework of equality, freedom, and Article 21 rights.	4, 5, 10, 16	8th	B.Tech - Mechanical Engineering
	Calculus and Matrices	Explore matrices, eigenvalues, and optimization techniques for functions of multiple variables, including applications of double and triple integrals. Study partial differentiation, Taylor's and Maclaurin's expansions, and matrix differentiation.	4,9	1st	B.E Mechatronics Engineering
	Mechatronics Foundation Lab Engineering Physics	Hands on Experience on introducing Calculations of Resultant forces and moments of different kinds of force systems, Analysis of trusses and calculations of centroid and	4, 9, 17 4, 9	1st 1st	B.E Mechatronics Engineering B.E Mechatronics Engineering
		center of gravity of plane laminas  Study FeCl3 susceptibility, ionization potential of mercury, wavelength of light (Michelsons Interferometer), laser beam angular			
	Engineering Physics Lab Environmental Sciences	divergence, optical fiber numerical aperture, magnetic field in circular coil, Hall effect in semiconductor, Plank's constant (LEDs).  Environmental studies encompass sustainability, ecosystems, biodiversity, pollution, and human-environment interactions.	4, 9	1st	B.E Mechatronics Engineering B.E Mechatronics Engineering
	Fundamentals of Mechatronics Systems	Environmental studies encompass sustainantity, ecosystems, bootwersity, poliution, and numan-environment interactions.  This subject covers topics such as sensors, actuators, microcontrollers, and feedback control systems essential for the development of modern automated and robotic systems.	4, 6, 7, 11, 14, 13	1st	B.E Mechatronics Engineering  B.E Mechatronics Engineering
122	Design Thinking	Development of the technical skills in design and CAD using concept sketeches, 2D and 3D tecchnical drawing and modeling.	3, 4, 6,7,8,9, 11,12,13,14,15	1st	B.E Mechatronics Engineering
123	Programming for Engineering Problem Solving	The students get hands on experience of solving problems through C-programming. The students are able to determine and demonstrate bugs in a program and recognize needed basic operations. Students develop the skill to formulate new solutions for programming problems or improve existing code to program effectively	4,9	1st	B.E Mechatronics Engineering
124	Electrical and Electronics Lab	Explore electrical components, motor control, and sensors in-depth. Investigate voltage regulation using zener diodes and assess the performance of rectifiers and transistors.	4,9	1st	B.E Mechatronics Engineering
	Mathematical Models in Engineering	Study Fourier series expansions, transforms, and applications in solving ordinary and partial differential equations. Explore complex variables, integration, and apply Laplace transforms for differential equation solutions.	4,9	2nd	B.E Mechatronics Engineering
	Technical Communication Rigid Body Dynamics	Forms of Technical Communication, Technoical presentation, Kinesics & Voice Dynamics:  This subject delves into the mathematical principles governing the motion of rigid bodies, essential for understanding mechanical mathematics are produced by the production of t	4,8 4,9	2nd 2nd	B.E Mechatronics Engineering B.E Mechatronics Engineering
	Foundation Workshop	systems such as machinery, vehicles, and robotic manipulators.  Hands on experience to various shops such as welding, sheet metal, carpentry, as well as machine shops for various operations on	4,9	2nd	B.E Mechatronics Engineering
$\vdash$	Human Values & Professional Ethics	workpiece Promote human rights and value education, emphasizing gender equality, character development, and addressing issues like gender discrimination, female feficide, and child labor,	3, 4, 5, 10	2nd	B.E Mechatronics Engineering
130	Object Oriented Programming	Design and implement C++ programs for complex problems, making good use of the features of the language such as classes, inheritance and templates	4,9	2nd	B.E Mechatronics Engineering
131	Engineering Exploration	Design and fabrication of the projects, interdisciplinary projects for solving community problems, Team formation methods for project work	3, 4, 6,7,8,9,11,12,13,1	2nd	B.E Mechatronics Engineering
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132	Materials and Metallurgy	Detailed study of engineering materials with classification and properties. Various testing methods. Phase diagram of various alloy	4,9	2nd	B.E Mechatronics Engineering
133	Materials and Metallurgy Lab	systems. Heat treatment processes and their applications.  Hands on Experience on various materials testing equipment such as Microscope, hardness testing machine, and end quench test etc.	4,9	2nd	B.E Mechatronics Engineering
	FUNDAMENTAL OF ELECTRONICS	This subject covers topics such as semiconductor devices, circuit analysis, digital logic, and amplifier circuits, providing a foundational			
134	ENGINEERING	understanding for designing and troubleshooting electronic circuits.	4,9	3rd	B.E Mechatronics Engineering
135	MANUFACTURING SCIENCE CONTROL SYSTEMS AND	Detailed concept of various manufacturing processes such as casting, welding, machining along with mehanical working process, their applications & use in the industries.	4,9	3rd	B.E Mechatronics Engineering
136	MEASUREMENTS MECHATRONICS ENGINEERING	This subject covers methodologies for designing, analyzing, and implementing control systems, as well as techniques for accurately measuring and monitoring various parameters within these systems.	4,9	3rd	B.E Mechatronics Engineering
137	LAB II	Hands on learning on electronic components gates ,transistor, resistors,sensors with arudino interface	4,9	3rd	B.E Mechatronics Engineering
138	CYBER SECURITY	Students gain familiarity with prevalent network and distributed system attacks, defenses against them, and forensics to investigate the aftermath. Thus, the students are developed with ethical hacking skills and will be well-aware of cyber crimes.	4,9	3rd	B.E Mechatronics Engineering
139	MECHANICAL ENGINEERING LAB	Hand on experience on strength testing, impact testing, torsion testing machine and various experiments determining behaviour of fluid in static, kinematic and dynamic conditions.	4,9	3rd	B.E Mechatronics Engineering
140	MECHANICS OF SOLIDS AND	Calculation of shear force, bending moments, bending stresses and shear stresses in different types of beams. calculation of torsion	4,7,9	3rd	B.E Mechatronics Engineering
141	FLUIDS INDUSTRIAL AUTOMATION AND	moments in different types of shaft and study of behaviour of various fluids in statics, dynamics and kinematics conditions.  This subject covers pneumatics, hydraulics and robotic systems, as well as their role in enhancing productivity, efficiency, and safety in			
141	ROBOTICS	industrial environments.  The simulations cover various applications, including projectile and vehicle motion, pendulum dynamics, and system analyses using	4,9	4th 4th	B.E Mechatronics Engineering
142	MATHEMATICS WITH PYTHON MECHATRONICS ENGINEERING	numerical techniques, highlighting diverse mathematical and engineering principles.	4,9	4th	B.E Mechatronics Engineering
143	LAB V MECHANICAL ENGINEERING LAB	Hands on Experience of understand the kinematic diagrams of different configurations of robots using python programming  Hands on learning and training on IC engines and thermal equipment to study and analyse various thermodynamic principles and hand on	4,9	4th	B.E Mechatronics Engineering
145	II MECHANISMS AND MACHINES	learning on mechanisms, governor, cam, gears, balancing, gyroscope  To introduce the approaches and mathematical models used in kinematic and dynamic analysis of machinery, basic knowledge on	4,9	4th	B.E Mechatronics Engineering B.E Mechatronics Engineering
146	PROJECT I	mechanical vibrations  Conceptual design and analytical design	3, 4, 6,7,8,9,	4th	B.E Mechatronics Engineering
147	ENVIRONMENTAL SCIENCES	Environmental studies encompass sustainability, ecosystems, biodiversity, pollution, and human-environment interactions.	11,12,13,14,15 4, 6, 7, 11, 14, 15	4th	B.E Mechatronics Engineering
148	ENGINEERING STANDARDS AND	This subject covers the interpretation and application of standards set by regulatory bodies, emphasizing the importance of adhering to	4,8,9,16	4th	B.E Mechatronics Engineering
	REGULATIONS THERMAL ENGINEERING I	ethical and legal principles in engineering design and operations.  Students learned different air standard cycle on which different power plant works.	4,9	4th	B.E Mechatronics Engineering
150	SUMMER INTERNSHIP	To cultivate student's leadership ability and responsibility to perform or execute the given task.	3, 4, 6,7,8,9, 11, 12,13,14,15	4th	B.E Mechatronics Engineering
151	MECHANISMS OF HUMAN MOVEMENTS	This subject explores the biomechanical principles underlying human motion, including the analysis of forces, torques, and kinematics involved in various activities.	4,9,15	5th	B.E Mechatronics Engineering
152	MECHANICAL ENGINEERING LAB	This subject involves conducting experiments to understand fluid power concepts, such as pressure, flow, and force transmission, essential for designing and troubleshooting pneumatic and hydraulic systems.	4,9	5th	B.E Mechatronics Engineering
154	THERMAL ENGINEERING II MECHATRONICS ENGINEERING	Detailed concepts of different type of engines and different type of ignition system, how we can control emission.  Hand on experience on google colab building Neural networks for different classification problems using tensorflow and keras for	4,9 4,9	5th 5th	B.E Mechatronics Engineering B.E Mechatronics Engineering
155	LAB IV DISASTER MANAGEMENT	machine learning  Explore disaster management covering classification, impacts, risk reduction, and institutional aspects, emphasizing local involvement.		5th	
155		Address global trends, pandemics, climate change, and the role of indigenous knowledge in disaster resilience.	13, 14, 15 3, 4, 6,7,8,9,	5th	B.E Mechatronics Engineering
156	MINOR PROJECT II ENGINEERING STANDARDS AND	Conceptual design and analytical design	11,12,13,14,15	5th	B.E Mechatronics Engineering
157	REGULATIONS	This subject covers the interpretation and application of standards set by regulatory bodies, emphasizing the importance of adhering to ethical and legal principles in engineering design and operations.	4,8,9,16	5th	B.E Mechatronics Engineering
158	MACHINE LEARNING	This subject encompasses techniques such as supervised learning, unsupervised learning, and reinforcement learning, with applications ranging from image recognition and natural language processing to recommendation systems and autonomous vehicles.	4,9	5th	B.E Mechatronics Engineering
159	INDUSTRIAL ENGINEERING	Explore Industrial Engineering, encompassing management concepts, organizational design, productivity methods, work analysis, motion economy, work measurement, and value engineering.	4,9	6th	B.E Mechatronics Engineering
160	MECHATRONICS ENGINEERING LAB VI	Hand on experience to interface the wireless modules with microcontroller to control the brushless motor, transfer the data between	4,9	6th	B.E Mechatronics Engineering
161	MECHATRONICS SYSTEM	master and slave configuration using 12C.  Prototype development, fabrication of setups, laboratory experiment development, process modification/development	3, 4, 6,7,8,9,	6th	B.E Mechatronics Engineering
162	PROJECT (CONT.) MOBILE ROBOTICS	This subject covers topics such as locomotion mechanisms, sensor integration, navigation algorithms, and task planning, essential for	11,12,13,14,15 4,9	6th	B.E Mechatronics Engineering
163	HUMAN VALUES AND	Creating robots that can operate efficiently in dynamic and unstructured surroundings.  Promote human rights and value education, emphasizing gender equality, character development, and addressing issues like gender	3, 4, 5, 10	6th	B.E Mechatronics Engineering
	PROFESSIONAL ETHICS HEATING VENTILATION AND AIR	discrimination, female feticide, and child labor.  Control systems aim to maintain room conditions, optimize energy use, and ensure safety through loops, sensors, and various controls.			
164	CONDITIONING	The system includes DDC, PLC, sensors like temperature, and aspects like tuning, fault detection, and functional controls.	4,9	6th	B.E Mechatronics Engineering
165	MECHANICAL ENGINEERING LAB IV	Students determine the thermal conductivity of different materials and analyse its effects on heat transfer and cooling Load estimations, COP calculations of refrigeration systems.	4,9	6th	B.E Mechatronics Engineering
166	NUMERICAL ABILITY AND LOGICAL REASONING	Covering Mathematics, basic operations, percentages, time and work, set theory, logical reasoning, number systems, data interpretation, quantitative analysis, coding-decoding, geometry, trigonometry, and various puzzle-solving techniques for comprehensive mathematical	4	6th	B.E Mechatronics Engineering
167	WEB DEVELOPMENT FOR IOT	aptitude.  This subject covers the integration of web technologies such as HTML, CSS, JavaScript, and server-side scripting languages with IoT	4,7,9	7th	B.E Mechatronics Engineering
		platforms and protocols to enable remote monitoring, management, and automation of connected devices.  This subject encompasses concepts such as the Internet of Things (IoT), artificial intelligence (AI), big data analytics, and cyber-			
168	INDUSTRY 4.0 CNC MACHINING &	physical systems, aimed at enhancing efficiency, productivity, and flexibility in industrial operations.  Constructional details of CNC machines, Fundamentals of Part Programming, Part programming using sub routines, Do loops and	4,7,9	7th	B.E Mechatronics Engineering
169	PROGRAMMING	canned cycles  This subject covers topics such as electrical circuits, relay logic, PLC hardware and software, and ladder logic programming, providing	4,9	7th	B.E Mechatronics Engineering
170	FROM WIRE TO PLC	essential knowledge for automating industrial processes effectively.  Engineering practice for students and application of knowledge from different areas of engineering, which they have studied in their	4,9 3, 4, 6,7,8,9,	7th	B.E Mechatronics Engineering
$\vdash$	MAJOR PROJECT	curriculum using methods, tools and techniques.  Explore Industrial Engineering, encompassing management concepts, organizational design, productivity methods, work analysis,	11,12,13,14,15	7th	B.E Mechatronics Engineering
$\vdash$	WORK STUDY & ERGONOMICS	motion economy, work measurement, and value engineering.	4,9	7th	
173	6 MONTH INDUSTRIAL TRAINING		3.4.6789		B.E Mechatronics Engineering
174	CO-OP PROJECT AT INDUSTRY	Project work, Report writing, Awarnes and hierarchy of a small company	3, 4, 6,7,8,9, 11,12,13,14,15	8th	B.E Mechatronics Engineering
175		Project work, Report writing, Awareness and hierarchy of a small company	11,12,13,14,15 3, 4, 6,7,8,9, 11,12,13,14,15	8th 8th	B.E Mechatronics Engineering B.E Mechatronics Engineering
1 -	Problem Solving and Logic Design	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.	11,12,13,14,15 3, 4, 6,7,8,9, 11,12,13,14,15 4	8th 8th 1st	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET
$\vdash$	Problem Solving and Logic Design  Essentials of Information Technology	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.	11,12,13,14,15 3, 4, 6,7,8,9, 11,12,13,14,15 4	8th 8th 1st	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET CUIET
177	Problem Solving and Logic Design	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations.	11,12,13,14,15 3, 4, 6,7,8,9, 11,12,13,14,15 4 4	8th 8th 1st	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET CUIET CUIET
177	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations.  Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the interrelationships of the natural world.	11,12,13,14,15 3, 4, 6,7,8,9, 11,12,13,14,15 4	8th 8th 1st	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET CUIET CUIET CUIET
177 178 179	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences Advance Software Engineering Techniques	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations.  Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the interrelationships of the natural world.  Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.	11.12.13.14.15 3, 4, 6.7.8.9, 11.12.13.14.15 4 4 4 4,5,13 4,9	8th 8th 1st 1st 1st 1st 1st	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET CUIET CUIET CUIET CUIET CUIET CUIET
177	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences Advance Software Engineering Techniques. Project Management Introduction to Interactive Programming	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations.  Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the internetiationships of the natural world.  Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.  Production of a complete project which follows the client's exclusive needs and objectives.	11,12,13,14,15 3, 4, 6,7,8,9, 11,12,13,14,15 4 4 4 4,5,13	8th 8th 1st 1st 1st	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET CUIET CUIET CUIET
177 178 179 180	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences Advance Software Engineering Techniques	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations. Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the interrelationships of the natural world.  Apply the software engineering lifecycle by demonstrating competence in communication planning, analysis, design, construction, and depolyment.  Production of a complete project which follows the client's exclusive needs and objectives.  Exploring Python popularity as a general purpose programming language. Python Library use for statistic analysis  Able to appreciate and apply the R programming from a statistical prespective	11.12.13.14.15 3.4.6.7.8.9, 11.12.13.14.15 4 4 4 4 4.5.13 4,9 4,13	8th 8th 1st 1st 1st 1st 1st	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET CUIET CUIET CUIET CUIET CUIET CUIET CUIET
177 178 179 180 181 182	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences Advance Software Engineering Techniques Project Management Introduction to Interactive Programming in Puthon Statistical Data Analytics using R Operation Research	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations. Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the interrelationships of the natural world. Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.  Production of a complete project which follows the client's exclusive needs and objectives.  Exploring Python popularity as a general purpose programming language. Python Library use for statstic analysis  Able to appreciate and apply the R programming from a statistical perspective  Ability to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time.	11,12,13,14,15 3, 4, 67,82,1 11,12,13,14,15 4 4 4 4,5,13 4,9 4,13 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8th  8th  1st  1st  1st  1st  1st  1st  1st  1	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET
177 178 179 180 181 182 183	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences Advance Software Engineering Techniques Introduction to Interactive Programming in Python Statistical Data Analytics using R Operation Research Advanced Web Development	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations.  Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the interrelationships of the natural world.  Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and depolyment.  Production of a complete project which follows the client's exclusive needs and objectives.  Exploring Python popularity as a general purpose programming language, Python Library use for statistic analysis  Able to appreciate and apply the R programming from a statistical prespective  Ability to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time.  Learning insights of modern java Script and React, is Fundamentals	11,12,13,14,15 4 4 4 4,5,13 4,9 4,13 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8th 8th 1st	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET
177 178 179 180 181 182 183	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences Advance Software Engineering Techniques Project Management Introduction to Interactive Programming in Python Statistical Data Analytics using R Operation Research Advanced Web Development Computer Graphics & Image Processing	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations.  Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the interrelationships of the natural world.  Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.  Production of a complete project which follows the client's exclusive needs and objectives.  Exploring Python popularity as a general purpose programming language. Python Library use for statstic analysis  Able to appreciate and apply the R programming from a statistical perspective  Abling to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time.  Learning insights of modern java Script and React js Fundamentals  Be able to understand basic concepts image processing, image storage and types of transformations that can be applied to images. Implement clipping algorithm on lines using OperaGI, and To design an application with the principles of virtual reality	11,12,13,14,15 3, 4, 67,82,1 11,12,13,14,15 4 4 4 4,5,13 4,9 4,13 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8th  8th  1st  1st  1st  1st  1st  1st  1st  1	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET
177 178 179 180 181 182 183 184 185	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences Advance Software Engineering Techniques Project Management Introduction to Interactive Programming in Python Statistical Data Analytics using R Operation Research Advanced Web Development Computer Graphics & Image Processing Object Oriented Programming & Practices	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations.  Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the interrelationships of the natural world.  Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.  Production of a complete project which follows the client's exclusive needs and objectives.  Exploring Python popularity as a general purpose programming language. Python Library use for statstic analysis  Able to appreciate and apoly the R programming from a statistical perspective  Ability to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time.  Learning insights of modern java Script and React_js Fundamentals  Be able to understand basic concepts image processing, image storage and types of transformations that can be applied to	11,12,13,14,15 4 4 4 4,5,13 4,9 4,13 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8th 8th 1st	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET
177 178 179 180 181 182 183 184 185 186	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences Advance Software Engineering Techniques Project Management Introduction to Interactive Programming in Puthon Statistical Data Analytics using R Operation Research Advanced Web Development Computer Graphics & Image Processing Object Oriented Programming &	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations.  Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the interrelationships of the natural world.  Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.  Production of a complete project which follows the client's exclusive needs and objectives.  Exploring Python popularity as a general purpose programming language. Python Library use for statistic analysis  Able to appreciate and apoly the R programming from a statistical perspective  Ability to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time.  Learning insights of modern java Script and React_is Fundamentals  Be able to understand basic concepts image processing, image storage and types of transformations that can be applied to images. Implement clipping algorithm on lines using OpenGiL and To design an application with the principles of virtual reality  Decompose its problems in context of OOPS. Understand the use of OOP concept in program building environment and used the OOPs	11,12,13,14,15 3, 4, 67,89 11,12,13,14,15 4 4 4 4,5,13 4,9 4,13 4 4 4	8th 8th 1st	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET
177 178 179 180 181 182 183 184 185 186 187 188	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences Advance Software Engineering Techniques Project Management Introduction to Interactive Programming in Puthon Statistical Data Analytics using R Operation Research Advanced Web Development Computer Graphics & Image Processing Object Oriented Programming & Practices	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations. Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the interrelationships of the natural world.  Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and depolyments.  Production of a complete project which follows the client's exclusive needs and objectives.  Production of a popularity as a general purpose programming language. Python Library use for statistic analysis  Able to appreciate and apply the R programmine from a statistical prespective  Ability to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time.  Learning insights of modern java Script and React_is Fundamentals  Be able to understand basic concepts image processing, image storage and types of transformations that can be applied to images. Implement clipping algorithm on lines using OpenGL and To design an application with the principles of virtual reality  Decompose its problems in context of OOPS. Understand the use of OOP concept in program building environment and used the OOPs fundamental to provide a generic solution for real life problem.  To give exposure of major project works in Industry.  Develop a deeper understanding and familiarity with various types of cyber crimes, vulnerabilities and remedies t	11,12,13,14,15	8th 8th 1st	B.E Mechatronics Engineering  B.E Mechatronics Engineering  CUIET
177 178 179 180 181 182 183 184 185 186 187 188	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences Advance Software Engineering Techniques Project Management Introduction to Interactive Programming in Pethon Statistical Data Analytics using R Operation Research Advanced Web Development Computer Graphics & Image Processing Object Oriented Programming & Practices Programming Abstractions Integrated Project	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations. Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the interrelationships of the natural world. Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.  Production of a complete project which follows the client's exclusive needs and objectives.  Exploring Python popularity as a general purpose programming language. Python Library use for statistic analysis  Able to appreciate and apply the R programming from a statistical prespective  Ability to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time.  Learning insights of modern java Script and React_is Fundamentals  Be able to understand basic concepts image processing, image storage and types of transformations that can be applied to images. Implement clipping algorithm on lines using OpenGL and To design an application with the principles of virtual reality  Decompose its problems in context of OOPS. Understand the use of OOP concept in program building environment and used the OOPs fundamental to provide a generic solution for real life problem.  Design deskton applications which mimic the real word securiors.  To give exposure of major project works in findistry.  Develop a deeper understanding and familiantiv	11,12,13,14,15 4 4 4 4,5,13 4,9 4,13 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8th 8th 1st	B.E Mechatronics Engineering B.E Mechatronics Engineering CUIET
1777 1788 1799 180 181 182 183 184 185 186 187 188 189	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences Advance Software Engineering Techniques Project Management Introduction to Interactive Programming in Pethon Statistical Data Analytics using R Operation Research Advanced Web Development Computer Graphics & Image Processing Object Oriented Programming & Practices Programming Abstractions Integrated Project Cyber Security	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations. Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the interrelationships of the natural world. Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.  Production of a complete project which follows the client's exclusive needs and objectives.  Exploring Python popularity as a general purpose programming language. Python Library use for statistic analysis  Able to appreciate and apply the R programming from a statistical perspective  Ablity to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time.  Learning insights of modern java Script and React_is Fundamentals  Be able to understand basic concepts image processing, image storage and types of transformations that can be applied to images. Implement clipping algorithm on lines using OpenGL and To design an application with the principles of virtual reality  Decompose its problems in context of OOPS. Understand the use of OOP concept in program building environment and used the OOPs fundamental to provide a generic solution for real life problem.  Design desktop applications which mimic the real word scenarios.  To give exposure of major project works in Industry.  Decompose its problems in context of OOPS and fam	11,12,13,14,15 4 4 4 4,5,13 4,9 4,13 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8th 8th 1st	B.E Mechatronics Engineering  B.E Mechatronics Engineering  CUIET
1777 178 179 180 181 182 183 184 185 186 187 190 191	Problem Solving and Logic Design Essentials of Information Technology Database Management System Environmental Sciences Advance Software Engineering Techniques Project Management Introduction to Interactive Programming in Python Statistical Data Analytics using R Operation Research Advanced Web Development Computer Graphics & Image Processing Object Oriented Programming & Practices Programming Abstractions Integrated Project Cyber Security Operating Systems Networking Essentials System Testing	Project work, Report writing, Awareness and hierarchy of a small company  Create a working module of a stated problem and to develop a blueprint for Developing a program in any programming language.  Find out the significance of various softwares and Internet in real world as well as role of operating system. Understand organization, functions and usage principles applicable to all types of modern computer systems.  Understand and evaluate the role of database management systems in information. Technology applications within organizations. Provide students with concepts about natural resources, ecosystems, biodiversity, energy resources, environmental pollution and waste management which are required to understand the interrelationships of the natural world. Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.  Production of a complete project which follows the client's exclusive needs and objectives.  Exploring Python popularity as a general purpose programming language. Python Library use for statistic analysis  Able to appreciate and apply the R programming from a statistical perspective  Ablity to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time.  Learning insights of modern java Script and React_is Fundamentals  Be able to understand basic concepts image processing, image storage and types of transformations that can be applied to images. Implement clipping algorithm on lines using OpenGL and To design an application with the principles of virtual reality  Decompose its problems in context of OOPS. Understand the use of OOP concept in program building environment and used the OOPs fundamental to provide a generic solution for real life problem.  Design deskton applications which mimic the real word scenarios.  To give exposure of major project works in Industry.  Decompose its problems in context of OOPS and fam	11,12,13,14,15 4 4 4 4,5,13 4,9 4,13 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	8th 8th 1st	B.E Mechatronics Engineering  B.E Mechatronics Engineering  CUIET
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202	Data Mining and Business Intelligence	Conceptualization of data mining and data warehouse. Conceptualization of data mining and data warehouse.	4	3rd	CUIET
203	Machine Learning using Python  Machine Learning using R	Develop skills of using recent machine learning software for solving practical problems.  Discover patterns in the user data and then make predictions based on these and intricate patterns for answering business questions and	4	3rd 3rd	CUIET
205	Artificial Intelligence	solving business problems  Use and learn Expert system architecture and its development also Learn MATLAB tool basics to explore AI on MATLAB. Solve  the state of the state o	4	3rd	CUIET
206	Internet Marketing	problems using search techniques: depth-first, breadth-first, forward chaining, backward chaining, best-first and heuristic search.  Know about the requirements of digital marketing services among different online domains	4, 12	3rd	CUIET
207	Industrial Training/Major Projects	Students are able to work on live projects and training projects	4, 17	4th	CUIET
208	Co-Op Project Work ENGINEERING ECONOMICS,	To familiarize the students with basic processes of real life project development.	4, 16	4th	CUIET
209	ESTIMATION & COSTING	Equips students with financial analysis skills essential for engineering project management.	8	5th	B.E Civil Engineering
210	STRUCTURE ANALYSIS-I LAB MECHANICS OF SOLIDS	Offers experience in analyzing the behavior of structures under different loading conditions.  Provides an understanding of the behavior of solid materials under various stresses and strains.	9	3rd	B.E Civil Engineering
212	MECHANICS OF SOLIDS LAB	Offers practical applications and experiments to reinforce theoretical concepts in solid mechanics.	9	3rd 3rd	B.E Civil Engineering B.E Civil Engineering
213	GEO-INFORMATICS HYDROLOGY AND WATER	Introduces the use of spatial data and technology for analyzing and managing geographical information.  Focuses on the study of water movement and management in natural and built environments.	11	6th 5th	B.E Civil Engineering B.E Civil Engineering
215	RESOURCES ENGINEERING PRESTRESSED CONCRETE	Covers advanced techniques for strengthening concrete structures to withstand tension.	9	5th	B.E Civil Engineering
216	TRACK 1 BRIDGE ENGINEERING	Explores the design, construction, and maintenance of bridges for various transportation needs.	11	7th	B.E Civil Engineering
217	GEOTECHNICAL ENGINEERING	Examines soil and rock behavior to design foundations and earth structures.	9	4th	B.E Civil Engineering
218	GEOTECHNICAL ENGINEERING LAB	Provides practical experience in conducting tests to analyze soil properties.	9	4th	B.E Civil Engineering
219	GROUND IMPROVEMENT TECHNIQUES	Covers methods to enhance the engineering properties of soil for construction purposes.	15	6th	B.E Civil Engineering
220	CO-OP PROJECT AT INDUSTRY	Offers students the opportunity to apply classroom knowledge to real-world engineering projects in industry settings.	17	8th	B.E Civil Engineering
221	INDUSTRY ORIENTED HANDS ON			0.1	B.D. G. 3.D
221	EXPERIENCE (IOHE)	Provides practical exposure to industry practices and processes in the field of civil engineering	17	8th	B.E Civil Engineering
222	TRANSPORTATION ENGINEERING	Focuses on the planning, design, and operation of transportation systems.	9	4th	B.E Civil Engineering
223	TRANSPORTATION ENGINEERING LAB	ffers practical exercises to understand transportation system components and operations.	9	4th	B.E Civil Engineering
224 225	GEO-INFORMATICS LAB FLUID MECHANICS	Introduces the use of spatial data and technology for analyzing and managing geographical information.  Studies the behavior of fluids at rest and in motion, relevant to various engineering applications.	11 9	6th 3rd	B.E Civil Engineering B.E Civil Engineering
226	FLUID MECHANICS LAB PROGRAMMING FOR PROBLEM	Conducts experiments to demonstrate principles of fluid behavior and flow phenomena.	9	3rd	B.E Civil Engineering
227	SOLVING PROGRAMMING FOR PROBLEM	Develops problem-solving skills using programming languages applicable to engineering.	4	7th	B.E Civil Engineering
228	SOLVING	Develops problem-solving skills using programming languages applicable to engineering.	4	3rd	B.E Civil Engineering
229	HYDRAULIC ENGINEERING STRUCTURAL ANALYSIS I	Focuses on the design and management of hydraulic systems and structures.  Introduces methods for analyzing the behavior of structural elements under different loads.	9	4th 3rd	B.E Civil Engineering B.E Civil Engineering
231	ENGINEERING EXPLORATION II (ONE YEAR DURATION)	Provides opportunities for students to work on engineering projects	17	4th	B.E Civil Engineering
232	STRUCTURAL ANALYSIS II DESIGN OF CONCRETE	Advances the understanding of structural behavior under complex loading conditions.  Explores advanced techniques for designing reinforced concrete structures.	9	4th 6th	B.E Civil Engineering B.E Civil Engineering
234	STRUCTURES- II COMPUTER AIDED DESIGN I	Introduces software tools for designing and modeling engineering systems and components.	9	3rd	B.E Civil Engineering
235	HUMAN VALUES AND PROFESSIONAL ETHICS	Addresses ethical considerations and professional responsibilities in engineering practice.	16	3rd	B.E Civil Engineering
236	CONSTRUCTION PLANNING AND MANAGEMENT	Covers principles and techniques for managing construction projects effectively.	8	6th	B.E Civil Engineering
237	ENGINEERING EXPLORATION III	Provides opportunities for students to work on engineering projects	17	6th	B.E Civil Engineering
	(ONE YEAR DURATION) ENVIRONMENTAL ENGINEERING				
238 239	LAB	Conducts experiments related to water and air quality, waste management, and environmental protection.	6	4th	B.E Civil Engineering
240	LANGUAGE SKILLS - II NUMERICAL ABILITY AND	Enhances communication skills in a second language relevant to engineering contexts.  Develops problem-solving and analytical skills necessary for engineering applications.	4	6th 6th	B.E Civil Engineering B.E Civil Engineering
241	LOGICAL REASONING DISASTER MANAGEMENT	Covers strategies and techniques for mitigating and responding to natural and human-made disasters.	10	7th	B.E Civil Engineering
242	COMPUTER AIDED DESIGN III	Advances proficiency in using CAD software for complex engineering design tasks.	9	7th	B.E Civil Engineering
243	ENGINEERING EXPLORATION IV	Allows for further specialization and research in specific engineering areas.	17	7th	B.E Civil Engineering
244	ENVIRONMENTAL IMPACT ASSESSMENT AND LIFE CYCLE	Focuses on evaluating the environmental consequences of engineering projects and products.	6	7th	B.E Civil Engineering
245	ANALYSIS PROFESSIONAL PRACTICES	Covers professional standards, regulations, and responsibilities relevant to engineering practice.	4	7th	B.E Civil Engineering
246	ENVIRONMENTAL ENGINEERING	Addresses environmental issues and solutions related to water, air, and soil quality.	6	4th	B.E Civil Engineering
247	COMPUTER AIDED DESIGN II	Expands proficiency in using CAD software for engineering design and analysis.	9	5th	B.E Civil Engineering
248	DESIGN OF CONCRETE STRUCTURES I	Introduces basic principles and methods for designing concrete structures.	11	5th	B.E Civil Engineering
249	BUILDING MATERIAL AND	Covers properties, selection, and use of materials in construction projects.	11	3rd	B.E Civil Engineering
250	CONSTRUCTION BUILDING MATERIAL AND	Conducts experiments to understand material properties and behavior in construction.	11	3rd	B.E Civil Engineering
251	CONSTRUCTION LAB DESIGN OF CONCRETE	Offers practical exercises to reinforce concepts learned in concrete structure design.	11	5th	B.E Civil Engineering
251	STRUCTURES LAB DESIGN OF STEEL STRUCTURE		11	5th	
252	DESIGN OF STEEL STRUCTURE LANGUAGE SKILLS - II	Covers principles and techniques for designing steel structures for various applications.  Further enhances communication skills in a second language pertinent to engineering contexts.	4	5th 7th	B.E Civil Engineering B.E Civil Engineering
	ENGLISH II CYBER SECURITY	Enhances proficiency in English language communication and comprehension skills.  Covers principles and practices for protecting digital assets and information systems from cyber threats.	4	3rd 5th	B.E Civil Engineering B.E Civil Engineering
256	Applied Mechanics Calculus and Matrices	Studies the application of mechanics principles to solve engineering problems.  Provides mathematical tools for analyzing and solving engineering problems.	9	1st 1st	B.E Civil Engineering B.E Civil Engineering B.E Civil Engineering
258	Electrical and Electronics Lab Environmental Sciences	Offers practical experience in electrical and electronic circuits and systems.	4	1st	B.E Civil Engineering
260	Foundation Workshop	Studies the interaction between human activities and the environment, addressing sustainability and conservation.  Introduces fundamental engineering concepts and skills essential for undergraduate study.	15 9	1st 1st	B.E Civil Engineering B.E Civil Engineering
261 262	Fundamentals of Surveying - Lab	Covers basic principles and techniques for land surveying.  Provides hands-on experience in land surveying techniques and equipment.	15 15	1st 1st	B.E Civil Engineering B.E Civil Engineering
263	Programming for Engineering Problem Solving	Develops programming skills for solving engineering problems.	4	1st	B.E Civil Engineering
265	Technical Communication Design Thinking	Enhances written and oral communication skills relevant to engineering practice.  Introduces creative problem-solving methodologies for engineering design challenges.	4	1st 2nd	B.E Civil Engineering B.E Civil Engineering
	Engineering Exploration Engineering Physics	Offers opportunities for students to explore diverse engineering disciplines and career paths.  Applies principles of physics to engineering analysis and problem-solving.	17 4	2nd 2nd	B.E Civil Engineering B.E Civil Engineering
268	Engineering Physics Lab	Conducts experiments to reinforce concepts in engineering physics.	4	2nd	B.E Civil Engineering
269	Human Values & Professional Ethics	Emphasizes ethical principles and professional conduct in engineering practice	16	2nd	B.E Civil Engineering
270	Mathematical Models in Engineering Object Oriented Programming	Utilizes mathematical modeling techniques to analyze and solve engineering problems.  Introduces principles and techniques of object-oriented programming for engineering applications.	4	2nd 2nd	B.E Civil Engineering B.E Civil Engineering
272	Strength of Materials	Studies the behavior of materials under various loading conditions and structural elements.	11	2nd	B.E Civil Engineering
273	BUILDING MATERIAL AND CONSTRUCTION BUILDING MATERIAL AND	Covers materials and techniques used in construction projects.	11	3rd	B.Tech - Civil Engineering
274 275	CONSTRUCTION LAB COMPUTER AIDED DESIGN I	Provides hands-on experience in testing and analyzing construction materials.  Introduces software tools for designing and modeling engineering systems.	11 9	3rd 3rd	B.Tech - Civil Engineering  B.Tech - Civil Engineering
276 277	ENGLISH II FLUID MECHANICS	Enhances proficiency in English language communication and comprehension skills.  Studies the behavior of fluids in motion and at rest.	4 9	3rd 3rd	B.Tech - Civil Engineering B.Tech - Civil Engineering
278	FLUID MECHANICS LAB HUMAN VALUES AND	Conducts experiments to observe and analyze fluid flow phenomena.	9	3rd	B.Tech - Civil Engineering
279 280	PROFESSIONAL ETHICS	Addresses ethical principles and professional conduct in engineering practice.  Explores the behavior of solid materials under different loading conditions.	16	3rd 3rd	B.Tech - Civil Engineering B.Tech - Civil Engineering
281	MECHANICS OF SOLIDS LAB	Explores the behavior of solid materials under different loading conditions.  Provides practical exercises to reinforce concepts learned in solid mechanics.	9	3rd 3rd	B.Tech - Civil Engineering B.Tech - Civil Engineering
282	PROGRAMMING FOR PROBLEM SOLVING	Develops problem-solving skills using programming languages applicable to engineering.	4	3rd	B.Tech - Civil Engineering
283	STRUCTURAL ANALYSIS I STRUCTURE ANALYSIS-I LAB	Introduces methods for analyzing the behavior of structural elements under various loads.  Offers hands-on experience in analyzing the behavior of structures under different loading conditions.	11	3rd 3rd	B.Tech - Civil Engineering  B.Tech - Civil Engineering
285	CONSTRUCTION PLANNING AND	Covers principles and techniques for managing construction projects effectively.	8	5th	B.Tech - Civil Engineering
286	MANAGEMENT* DESIGN OF CONCRETE	Focuses on the design principles and practices for concrete structures.	11	5th	B.Tech - Civil Engineering
287	STRUCTURES DESIGN OF CONCRETE	Conducts experiments related to the design and analysis of concrete structures.	11	5th	B.Tech - Civil Engineering
	STRUCTURES LAB DISASTER MANAGEMENT	Conducts experiments related to the design and analysis of concrete structures.  Covers strategies and techniques for mitigating and responding to natural and human-made disasters.	10	5th 5th	B. Tech - Civil Engineering  B.Tech - Civil Engineering





	ENVIRONMENTAL ENGINEERING				
289	II ENVIRONMENTAL ENGINEERING	Explores advanced topics in environmental engineering, such as pollution control and waste management.	6	5th	B.Tech - Civil Engineering
290	LAB IRRIGATION ENGINEERING	Conducts experiments related to environmental engineering principles and practices.  Studies the design and management of irrigation systems for agriculture.	6	5th 5th	B.Tech - Civil Engineering  B.Tech - Civil Engineering
292	MINOR PROJECT PROJECT MANAGEMENT	Involves a small-scale project focused on a specific area of study.	17 17	5th 5th	B.Tech - Civil Engineering
294	PUBLIC HEALTH ENGINEERING DRAWING	Covers techniques and tools for managing engineering projects efficiently.  Focuses on technical drawing related to public health engineering projects.	9	5th	B.Tech - Civil Engineering B.Tech - Civil Engineering
295	SURVEY CAMP	Provides practical training in land surveying techniques and fieldwork.	11	5th	B.Tech - Civil Engineering
296	URBAN & REGIONAL PLANNING	Introduces principles and practices of urban and regional planning.	11	5th	B.Tech - Civil Engineering
297	CO-OP PROJECT AT INDUSTRY	Offers students the opportunity to apply classroom knowledge to real-world engineering projects in industry settings.	17	7th	B.Tech - Civil Engineering
298	INDUSTRIAL TRAINING ENVIRONMENTAL ENGINEERING-	Provides practical training in industrial engineering practices and processes.  Covers fundamental principles of environmental engineering, such as water and air pollution.	6	7th 4th	B.Tech - Civil Engineering B.Tech - Civil Engineering
	1 FLUID MECHANICS-II	Expands on the principles of fluid mechanics introduced earlier in the curriculum.	9	4th	B.Tech - Civil Engineering
301	FUNDAMENTALS OF ARCHITECTURAL DRAWING	Introduces basic drawing techniques and principles for architectural design.	11	4th	B.Tech - Civil Engineering
302	GEOTECHNICAL ENGINEERING	Examines soil and rock behavior to design foundations and earth structures.	9	4th	B.Tech - Civil Engineering
303	GEOTECHNICAL ENGINEERING	Provides practical experience in conducting tests to analyze soil properties.	9	4th	B.Tech - Civil Engineering
	PLUMBING PRACTICES-I	Covers basic plumbing techniques and practices.	9	4th	B.Tech - Civil Engineering
	CYBER SECURITY DESIGN OF STEEL STRUCTURES-I	Covers principles and practices for protecting digital assets and information systems from cyber threats.  Introduces principles and practices for designing steel structures.	9	6th 6th	B.Tech - Civil Engineering B.Tech - Civil Engineering
_	ESTIMATION & COSTING	Covers methods for estimating project costs and managing budgets.	8	6th	B.Tech - Civil Engineering
308	FIRE FIGHTING ENGINEERING	Studies fire dynamics, prevention, and suppression techniques.	9	6th	B.Tech - Civil Engineering
309	FIRE FIGHTING ENGINEERING LAB	Provides hands-on experience in fire safety equipment and procedures.	9	6th	B.Tech - Civil Engineering
	LIFE SKILLS-II MAJOR PROJECT	Covers personal development skills relevant to engineering professionals.  Involves a substantial research or design project typically undertaken in the final year of study.	4 17	6th 6th	B.Tech - Civil Engineering B.Tech - Civil Engineering
312	NUMERICAL ABILITY & LOGICAL REASONING	Develops problem-solving and analytical skills using numerical and logical reasoning.	4	6th	B.Tech - Civil Engineering
313	TRANSPORTATION ENGINEERING	Focuses on the planning, design, and operation of transportation systems.	9	6th	B.Tech - Civil Engineering
314	TRANSPORTATION ENGINEERING	Offers practical exercises to understand transportation system components and operations.	9	6th	B.Tech - Civil Engineering
315	CONCRETE TECHNOLOGY	Covers the properties, production, and application of concrete in construction.	9	8th	B.Tech - Civil Engineering
316	CYBER SECURITY DESIGN OF STEEL STRUCTURES	Covers principles and practices for protecting digital assets and information systems from cyber threats.  Expands on the design principles and practices for steel structures.	9	8th 8th	B.Tech - Civil Engineering B.Tech - Civil Engineering
318	ENGINEERING GEOLOGY	Studies the geological aspects relevant to engineering projects and construction.	15	8th	B.Tech - Civil Engineering
319	INDIAN CONSTITUTION MAJOR PROJECT	Introduces the framework and principles of the Indian Constitution relevant to engineering practice.  Involves a substantial research or design project typically undertaken in the final year of study.	16 17	8th 8th	B.Tech - Civil Engineering B.Tech - Civil Engineering
321	SEMINAR	Involves presentations and discussions on current topics and issues in engineering.	4	8th	B.Tech - Civil Engineering
322	TRANSPORTATION ENGINEERING	Focuses on the planning, design, and operation of transportation systems.	9	8th	B.Tech - Civil Engineering
323	TRANSPORTATION ENGINEERING LAB	Offers practical exercises to understand transportation system components and operations.	9	8th 1st	B.Tech - Civil Engineering
325	Basics of Computer Science PC Assembly and Troubleshooting	Analyze and design various combinational and sequential circuits  Understand the basics of computer hardware and computer software.	4	1st	CUIET
326	Foundation Course in Mathematics	Student will construct and analyze the graphs of trigonometry functions. Students will apply the concepts of trigonometry to any angle	4	1st	CUIET
	Programming Concepts	in a rectangular coordinate plane  Apply fundamental logic-building tools such as pseudo code and flowcharts for developing simple programming logic	4	1st	CUIET
328	UI Design for Website - Lab	Develop understand and write basic HTML tags and use of elementary text formatting tags for web pages  To identify and analyze environmental problems both natural (disasters such as floods and earthquakes) and man-made (industrial	4, 9	1st	CUIET
329	Environmental Sciences Strategies for visual communication	pollution and global warming)	4, 13	1st	CUIET  Department of Communication Design ,
330	systems	Group prpoject, towards community martket to promote sustainable living	10,11,12	7 (2020)	Chitkara Design School
331	Introduction to Programming Languages	Ability to interpret the concept of arrays, function and storage classes.	4	2nd 2nd	CUIET
	Networking Fundamentals Software Engineering	Describe the importance of protocols in computer network  Apply the software engineering life cycle by demonstrating competence in communication, planning, analysis, design, construction,	4	2nd 2nd	CUIET
1355					
-		and deployment To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of			
334	Basics of Statistical Mathematics Web Designing		4	2nd 2nd	CUIET
334	Basics of Statistical Mathematics Web Designing Human Values & Professional Ethics/Indian Culture	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability	4	2nd	CUIET
334 335	Basics of Statistical Mathematics Web Designing Human Values & Professional	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability  To design and develop static webpages.	4	2nd 2nd	CUIET CUIET
334 335 336 337	Basics of Statistical Mathematics  Web Designing  Human Values & Professional  Ethics/Indian Culture  Fundamentals of Object-Oriented  Programming	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability  To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research	4 4 4, 16	2nd 2nd 2nd	CUIET CUIET CUIET
334 335 336 337 338	Basics of Statistical Mathematics  Web Designing  Human Values & Professional  Ethics/Indian Culture  Fundamentals of Object-Oriented  Programming	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability  To design and develon static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems	4 4 4,16 4	2nd 2nd 2nd 2nd 3rd	CUIET CUIET CUIET
334 335 336 337 338 339	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develor static webrages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems	4 4 4, 16 4	2nd 2nd 2nd 3rd 3rd	CUIET CUIET CUIET CUIET CUIET CUIET CUIET CUIET Department of Communication Design ,
334 335 336 337 338 339 340	Basics of Statistical Mathematics  Web Designing Human Values & Professional Editios/Indian Collure Fundamentals of Object-Oriented Programming Relational Database Management System  Web Programming using PHP  Content, Context and Interaction Artificial Intelligence	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability probability and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence	4 4 4,16 4 4	2nd 2nd 2nd 3rd 3rd 3rd 7 (2020) 3rd	CUIET CUIET CUIET CUIET CUIET CUIET CUIET CUIET CUIET Department of Communication Design , Chikkara Design School CUIET
334 335 336 337 338 339 340 341 342	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health	4 4, 16 4 4 4 5, 13,14,15, 16	2nd 2nd 2nd 3rd 3rd 3rd 7 (2020)	CUIET CUIET CUIET CUIET CUIET CUIET CUIET CUIET CUIET Department of Communication Design , Chikara Design School
334 335 336 337 338 339 340 341 342 343 344	Basics of Statistical Mathematics  Web Designing Human Values & Professional Editio/Indian Collune Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Dissater Management Digital Marketing	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences  Provide online tools to implement social media marketing to increase the online presence to business	4 4, 16 4 4 4 5, 13,14,15, 16 4 4 4	2nd 2nd 2nd 3rd 3rd 3rd 7 (2020) 3rd 3rd 3rd 3rd 3rd	CUIET CUIET CUIET CUIET CUIET CUIET CUIET CUIET Department of Communication Design . Chikkara Design School CUIET CUIET CUIET CUIET CUIET
334 335 336 337 338 339 340 341 342 343 344 345 346	Basics of Statistical Mathematics  Web Designing Human Values & Professional Edinic/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Discrete Mathematics Distant Marketine Programming in Java Major Project	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the Knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object-oriented programming features with respect to Java Language  To provide the means to better understand about the roposic development life cycle	4 4 4, 16 4 4 5, 13,14,15, 16 4 4 4 4, 9	2nd 2nd 2nd 3rd 3rd 3rd 7 (2020) 3rd 3rd 3rd 4th 4th	CUIET CUIET CUIET CUIET CUIET CUIET CUIET CUIET  Department of Communication Design , Citikara Design School CUIET
334 335 336 337 338 339 340 341 342 343 344 345 346 347	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Disaster Management District Marketing District Marketing District Marketing	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence To solve real life problems using combinatory To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object- oriented moramming features with respect to Java Language To provide the means to better understand about the reposet (evelopment process)  Planning and Designing Software testing Process	4 4 4, 16 4 4 5, 13,14,15, 16 4 4 4 4, 9	2nd 2nd 2nd 3rd 3rd 3rd 7 (2020) 3rd 3rd 3rd 3rd 4rd	CUIET CUIET CUIET CUIET CUIET CUIET CUIET Department of Communication Design , Chikara Design School CUIET CUIET CUIET CUIET CUIET CUIET CUIET
334 335 336 337 338 339 340 341 342 343 344 345 346 347 348	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Disaster Management Digital Marketing Diogramming in Java Major Project Front End Development	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence To solve real life problems using combinatory To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of oblect- oriented programming features with respect to Java Lancuage To provide the means to better understand about the project development life cycle.  Understanding component-based who application development process.	4 4, 16 4 4 5, 13,14,15, 16 4 4 4 4, 9 4, 9	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 3rd 4rd 3rd 3rd 4th 4th	CUIET CUIET CUIET CUIET CUIET  CUIET  CUIET  CUIET  Department of Communication Design , Chikara Design School CUIET
334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System  Web Programming using PHP  Content, Context and Interaction Artificial Intelligence Discrete Mathematics Dissater Management Dispital Marketing Programming in Java Major Project Software Testing	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence To solve real life problems using combinatory To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consecuences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object-oriented procarammine features with respect to Java Language To provide the means to better understand about the project development life evele  Understanding component-based web application development process  Planning and Developming Software esting Process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory.	4 4, 16 4 4 5, 13,14,15, 16 4 4 4 4, 9 4, 9 4, 9 4, 9 4, 9	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 7 (2020) 3rd 3rd 3rd 4th 4th 4th 4th 6 (2019)	CUIET COMMUNICATION Design , Chiklara Design School
334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Disaster Management District Marketing Programming in Java Maior Project Front End Development Software Testing Operating System Concepts	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence To solve real life problems using combinatory To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences of object-oriented proceamming features with respect to Java Language To provide the means to better understand about the proiect development life evele Understanding component-based web application development process Planning and Designing Software testing Process Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory.  Students work on new Technology such as AR /VR Learn Professional way of writing code using modular and object-oriented approach.  Learn the Professional way of writing code using modular and object-oriented approach.	4 4, 16 4 4 5, 13,14,15, 16 4 4 4 4 4, 9 4, 9 4, 9 4, 9	2nd 2nd 2nd 2nd 3rd 3rd 3rd 7 (2020) 3rd 3rd 3rd 3rd 4th 4th 4th	CUIET CUIET CUIET CUIET CUIET CUIET CUIET  CUIET  Department of Communication Design . Chitkara Design School CUIET CUIE
334 335 336 337 338 339 340 341 342 343 344 345 346 347 350 351 352 353	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System  Web Programming using PHP  Content, Context and Interaction Artificial Intelligence Discrete Mathematics Dissater Management Digital Marketing Programming in Java Malor Project Front Ead Development Software Testing Operating System Concepts Digital Interfaces and Process Programming in Puthon Multimedia & Animation Data Warehousing & ETL Technologies	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object- oriented morranming features with respect to Java Language  To provide the means to better understand about the project development life cycle  Understanding component-based web application development process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory  Learn Professional wav of writing code using modular and object-oriented approach.	4 4, 16 4 4 5, 13,14,15, 16 4 4 4 4, 9 4, 9 4, 9 4, 9 4, 9 4, 9	2nd 2nd 2nd 2nd 3rd 3rd 3rd 7 (2020) 3rd 3rd 3rd 4th 4th 4th 4th 4th 4th 6 (2019)	CUIET CUIET CUIET CUIET CUIET  CUIET  CUIET  Department of Communication Design , Chikkara Design School CUIET CUI
334 335 336 337 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System  Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Dissater Management Digital Marketine Programming in Java Maior Project Front End Development Software Testing Operating System Concepts Digital Interfaces and Process Programming in Puthon Multimedia & Animation Data Warehousing & ETL Technologies Back End Development	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability probability. To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object- oriented programming features with respect to Java Laneuses  To nowled the means to better understand about the reposited development life cycle  Understanding component-based web application development process  Planning and Development Social understand about the reposited development life cycle  Understanding component-based web application methods and address translation schemes, appraise concept of paging and concept of situal memory  Students work on new Technology such as AR /VR  Learn Professional way of sviring code using modular and object-oriented approach.  Understand multimedia and animation components using various tools and techniques  Residence and development and advise applications using MongoDB	4 4 4, 16 4 5, 13,14,15, 16 4 4 4 4, 9 4, 9 4, 9 4, 9 4, 9 4, 9 4,	2nd 2nd 2nd 2nd 3rd 3rd 3rd 7 (2020) 3rd 3rd 3rd 3rd 4th 4th 4th 4th 4th 5th 5th	CUIET CUIET CUIET CUIET  CUIET  CUIET  CUIET  CUIET  CUIET  Department of Communication Design , Chikara Design School  CUIET
334 335 336 337 338 339 340 341 342 343 344 345 346 347 350 351 352 353	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Dissater Management Distrial Marketing Programming in Java Maior Project Front End Development Software Testine Operating System Concepts Digital Interfaces and Process Programming in Python Multimedia & Animation Data Warehousing & ETL Technologies Bask End Development	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object- oriented moranuming features with respect to Java Language  To provide the means to better understand about the project development life cycle  Understanding component-based web application development process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory  Learn Professional way of writing code using modular and object-oriented approach.  Understand multimedia and animation components using various tools and techniques  Recall the architectural design patrents, summarizability problems, and design methodologies and apply these concepts to mini case  Students work on new Technology used as AR /VR  Learn Professional way of writing code using modular and object-oriented approach.  Understand multimedia and animation components using various tools and techniques  Recall the architectural design patrents, summarizability problems, and design methodologies and apply these concepts to mini case  Students work on ne	4 4, 16 4 4 5, 13,14,15, 16 4 4 4 4, 9 4, 9 4, 9 4, 9 4, 9 4, 9 4,	2nd 2nd 2nd 2nd 3rd 3rd 3rd 7 (2020) 3rd 3rd 3rd 4th 4th 4th 4th 4th 5th 5th	CUIET CUIET CUIET CUIET CUIET  CUIET  CUIET  CUIET  Department of Communication Design , Chikkara Design School CUIET
334 335 336 337 338 339 340 341 342 343 344 345 346 357 351 352 353 354 355 356 357	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System  Web Programming using PHP  Content, Context and Interaction Artificial Intelligence Discrete Mathematics Dissater Management Digital Marketine Programming in Java Maior Project Front End Development Softwar Testing Operating System Concepts Digital Interfaces and Process Programming in Puthon Multimedia & Animation Data Warehousing & ETI. Technologies Back End Development Algorithm Design and Implementation Cyber Security Programmine Practices	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object- oriented programming features with respect to Java Laneuage  To nowled the means to better understand about the royeiest development life cycle  Understanding component-based web application development process  Planning and Devisiting Software testing Process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of strulal memory  Students work on new Technology such as AR /VR  Learn Professional way of svriting code using modular and object-oriented approach.  Understanding the available of the paging student employable in robust software development environment  Learn bout the concept of cyber terrorism along with intellectual property in the cyberspace  Understanding the Java concepts for making student employable in robust software development environment  Learn about the concept of cyber terrorism along with intellectual property in the cyberspace	4 4 4, 16  4 5, 13,14,15, 16 4 4 4 4, 9 4, 9 4, 9 4, 9 4, 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 7 (2020) 3rd 3rd 3rd 4th 4th 4th 5th 5th 5th 5th	CUIET CUIET CUIET CUIET CUIET  CUIET
334 335 336 337 340 341 342 343 344 345 346 347 352 353 353 354 355 356 357 358	Basics of Statistical Mathematics  Web Designing Human Values & Professional Edinical Multure Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Dissater Management Digital Marketing Programmine in Java Maior Protect Front End Development Software Testine Operating System Concepts Digital Interfaces and Process Programmine in Python Multimedia & Animation Multimedia & Animation Data Warehousing & ETL Technologies Back End Development Algorithm Design and Implementation Cycler Security Programmine Practices Advance Java Programming	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develor static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consecuences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object-oriented moorannaine features with respect to Java Lunguage  To provide the means to better understand about the project development fife evel:  Understanding component-based based about the project development fife evel:  Understanding component-based provious allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory  Students work on new Technology such as AR /VR  Learn Professional wav of writing code using modular and object-oriented approach.  Understand multimedia and animation components using various tools and design methodologies and apply these concepts to mini case studies on data warehouse.  Designing and developing data driven applications using various tools and techniques  Recall the architectural design patrents, summarrisability problems, and design methodologies and apply these concepts to mini case studies on data warehouse.  Understand the Various concepts for making student employable in robust software development environment  Learn abou	4 4 4, 16 4 5, 13,14,15, 16 4 4 4 4 4, 9 4, 9 4, 9 4, 9 4, 9 4 9,17 4, 9 4 4 4 4 4 4 4 4	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 4th 4th 4th 5th 5th 6th	CUIET CUIET CUIET CUIET CUIET  CUIET  CUIET  CUIET  Department of Communication Design , Chikkara Design School  CUIET
334 335 336 337 340 341 342 343 344 345 346 347 350 351 352 353 354 355 356 357 358 359	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Disaster Management Disgital Marketing Programming in Java Maior Proiect Front End Development Software Testing Operating System Concepts Digital Interfaces and Process Programming in Pethon Multimedia & Animation Data Warehousing & ETL Technologies Back End Development Gyoriect Programming in Pethon Multimedia & Animation Data Warehousing & ETL Technologies Back End Development Cyber Security Programming Practices Advance Java Programming Introduction to Data Sciences	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object- oriented moreanmina features with respect to Java Language  To provide the means to better understand about the project development life cycle  Understanding component-based web application development process  Planning and Designing Software testing Process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory  Students work on new Technology such as AR /VR  Learn Professional wav of writing code using modular and object-oriented approach.  Understand multimedia and animation components using various tools and techniques  Recall the architectural design patterns, summarrisability problems, and design methodologies and apply these concepts to mini case studies on data wavehouse.  Designing and developing data driven applications using Winderstand various collections in Java and their application Learn tochniques and tools for transformation of data is benefits  Implement various events classes, event listener and ada	4 4 4, 16 4 5, 13,14,15, 16 4 4 4 4 4, 9 4, 9 4, 9 4, 9 4, 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 7 (2020) 3rd 3rd 3rd 4th 4th 4th 5th 5th 5th 5th	CUIET CUIET CUIET CUIET CUIET CUIET CUIET CUIET CUIET  Department of Communication Design , Chikkara Design School CUIET
334 335 336 337 338 340 341 342 343 344 345 346 351 352 353 353 354 355 356 357 358 359 360	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Disaster Management Discrete Mathematics Disaster Management Discrete Mathematics Disaster Management Digital Marketing Programming in Java Major Project Front End Development Software Testing Operating System Concepts Digital Interfaces and Process Programming in Pethon Multimedia & Animation Data Warehousing & ETL Technologies Back End Development Algorithm Design and Implementation Cyber Security Programming Practices Advance Java Programming Introduction to Data Sciences Design Concepts & Concerns	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develor static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence.  To solve real life problems using combinatory.  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequence the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequence for object-oriented moorannamic features with respect to Java Language  To provide the means to better understand about the project development file evel  Understanding component-based better auderstand about the project development file evel  Understanding component-based works application development of cost.  Students work on new Technology such as AR /VR  Learn Professional wav of writing code using modular and object-oriented approach.  Understand multimedia and animation component such sine various tools and techniques  Recall the architectural design patterns, summarizability problems, and design methodologies and apply these concepts to mini case studies on data warehouse.  Designing and development data driven applications using various tools and techniques  Learn about the concept of evel terrorism along with intellectual property in the evberspace  Understanding the Java concepts for making student employable in robust software development environment  Learn about the concept of evel terro	4 4 4, 16 4 5, 13,14,15, 16 4 4 4 4 4, 9 4, 9 4, 9 4, 9 4, 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 4th 4th 4th 4th 5th 5th 5th 5th 6th 6th 3 (2021)	CUIET CUIET CUIET CUIET CUIET  CUIET  CUIET  CUIET  CUIET  Department of Communication Design , Chikara Design School  CUIET  CU
334 335 336 337 338 340 341 342 343 344 345 346 352 353 352 353 354 355 356 357 358 358 359 360	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Disaster Management Discrete Mathematics Disaster Management Discrete Mathematics Disaster Management Discrete Mathematics Disaster Management Discrete Mathematics Disparter Mathematics Disparter Marketing Programming in Java Major Project Programming gystem Concepts Digital Interfaces and Process Programming in Python Multimedia & Animation Data Warehousing & ETL Technologies Back End Development Algorithm Design and Implementation Cyber Security Programming Practices Advance Java Programming Introduction to Data Sciences Design Concepts & Concerns Introduction to Cloud & IoT	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develor static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory.  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object-oriented programming features with respect to Java Language  To provide the means to better understand about the proiest development life cycle  Understanding component based whe application development process  Paramize and Designing Software testing Process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory  Students work on new Technology such as AR /VR  Learn Professional wav of writing code using modular and object-oriented approach.  Understand multimedia and animation components using various tools and techniques  Recall the architectural design patriens, summarrisability problems, and design methodologies and apply these concepts to mini case studies on data warehouse.  Designing and developming data driven applications using various tools and techniques  Inderstanding the Java concepts for making student employable in robust software development environment  Learn about the concept of cyber terrorism alon	4 4 4, 16 4 5, 13,14,15, 16 4 4 4 4 4 9 4, 9 4, 9 4, 9 4, 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 4th 4th 4th 4th 5th 5th 5th 6th 6th 3 (2021)	CUIET CUIET CUIET CUIET CUIET CUIET CUIET CUIET  CUIET  CUIET CUIE
334 335 336 337 338 339 340 341 342 343 344 345 346 352 353 352 353 354 355 356 357 358 359 360 361	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Disaster Management Discrete Mathematics Disaster Management Discrete Mathematics Disaster Management Digital Marketing Programming in Java Major Project Front End Development Software Testing Operating System Concepts Digital Interfaces and Process Programming in Pethon Multimedia & Animation Data Warehousing & ETL Technologies Back End Development Algorithm Design and Implementation Cyber Security Programming Practices Advance Java Programming Introduction to Data Sciences Design Concepts & Concerns	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of oblice-to-intented programming features with respect to Java Language  To provide the means to better understand about the project development life cycle  Understanding component-based web application development process  Planning and Designing Software testing Process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory  Students work on new Technology such as AR /VR  Learn Professional wav of writing code using modular and object-oriented approach.  Understand multimedia and animation components using various tools and techniques.  Recall the architectural design patterns, summarizability problems, and design methodologies and apply these concepts to mini case studies on data warchouse.  Designing and development data driven applications using MongolDB  Understanding lead adventure and adventure and adoptor also of the coberspace  Understanding belava concepts of OOPS and dis benefits  Implement various events classes, ev	4 4 4, 16 4 5, 13,14,15, 16 4 4 4 4 4, 9 4, 9 4, 9 4, 9 4, 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 4th 4th 4th 4th 5th 5th 5th 5th 6th 6th 3 (2021)	CUIET CUIET CUIET CUIET CUIET  CUIET  CUIET  CUIET  CUIET  Department of Communication Design , Chikara Design School  CUIET  CU
334 335 336 337 338 339 340 341 342 343 345 346 357 352 353 354 355 356 357 358 359 360 361 362 363	Basics of Statistical Mathematics  Web Designing Human Values & Professional Editics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Discrete Mathematics Discrete Mathematics Discrete Mathematics Discrete Mathematics Discrete Mathematics District Marketing Programming in Java Maior Proiect Front End Development Software Testing Operating System Concepts Digital Interfaces and Process Programmine in Pathon Multimedia & Animation Data Warehousing & ETI. Technologies Back End Development Algorithm Design and Implementation Cyber Security Programmine Practices Advance Java Programming Introduction to Data Sciences Design Concepts & Concerns Introduction to Data Sciences Design Concepts & Concerns Introduction to Cloud & IoT System Design	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develon static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of oblice-to-intented programming features with respect to Java Language  To provide the means to better understand about the project development life cycle  Understanding component-based web application development process  Planning and Designing Software testing Process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory  Learn Professional wav of writing code using modular and object-oriented approach.  Understand multimedia and animation components using various tools and techniques  Recall the architectural design patterns, summarizability problems, and design methodologies and apply these concepts to mini case studies on data warchouse.  Designing and development and animation components using various tools and techniques  Understanding the Java concepts for making student employable in robust software development environment  Learn about the concept of cyber terrorism along with intellectual proporty in the cyberspace	4 4 4, 16 4 5, 13,14,15, 16 4 4 4 4 4 4 9, 19 4, 9 4, 9 4, 9 4, 9 4, 9 4, 9 4, 9 4,	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 4th 4th 4th 4th 5th 5th 5th 5th 6th 6th 3 (2021)	CUIET
334 335 336 337 338 339 340 341 342 343 353 354 355 353 354 355 356 357 358 359 360 361 362 363 364	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System  Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Dissater Management Disrial Marketing Programming in Java Major Project Proor Eard Development Software Testing Operating System Concepts Digital Interfaces and Process Programmine in Pavon Multimedia & Amimation Data Warehousing & ETL Technologies Back End Development Algorithm Design and Implementation Cyber Security Programming Practices Advance Java Programming Introduction to Data Sciences Design Concepts & Concerns Introduction to Data Sciences Design Concepts & Concerns Introduction to Cloud & IoT System Design Industrial Training	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health  consequences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of obsice-oriented rorsamming features with respect to Java Language  To provide the means to better understand about the project development life cycle  Understanding component-based web application development process  Planning and Designing Software testing Process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory  Students work on new Technology such as AR /VR  Learn Professional wav of writing code using modular and object-oriented approach.  Understanding the Java concepts for making student employable in robust software development environment  Learn about the concept of cycher terrorism along with intellectual property in the cyberspace  Understand multimedia and animation components using various tools and techniques  Recall the architocard design pathers, summarrisably problems, and design methodologies and apply these concepts to mini case studies on data warchouse.  Designing and development and their applicati	4 4 4, 16 4 4 5, 13,14,15, 16 4 4 4 4, 9 4, 9 4, 9 4, 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 7 (2020) 3rd 3rd 3rd 3rd 4th 4th 4th 5th 5th 5th 5th 6th 3 (2021) 6th 6th	CUIET CUIET CUIET CUIET CUIET CUIET CUIET CUIET  CUIET
334 335 336 337 338 340 341 342 343 343 343 353 353 353 353 353 354 355 356 357 358 360 361 362 363 364 365	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Dissater Management Distrial Marketing Programming in Java Maior Protect Programming in Java Maior Protect Software Testing Operating System Concepts Digital Marketing Programming in Java Maior Protect Digital Marketing Programming in Pavhon Multimedia & Amination Data Warehousing & ETI. Technologies Back End Development Algorithm Design and Implementation Cyber Security Programming Practices Advance Java Programming Introduction to Data Sciences Design Concepts & Concerns Introduction to Cloud & IoT System Design Industrial Training Project -1 Social Communication	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability probability. To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence.  To solve real life problems using combinatory. To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.  Provide online tools to implement social media marketing to increase the online presence to business Awareness of oblect-oriented moorannaine features with respect to Java Language.  To provide the means to better understand about the proiest development life cycle Understanding component-based better process.  Paramica and Designing Software testing Process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory.  Students work on new Technology such as AR /VR  Learn Professional wav of writing code using modular and object-oriented approach.  Understanding the developming data driven applications using various tools and techniques  Recall the architectural design patrients, summarizability problems, and design methodologies and apply these concepts to mini case studies on data warehouse.  Designing and developming data driven applications using Various tools and techniques  Learn about the concept of cyber terrorism along with intellectual property in the cyberspace  Understanding the Java concepts for making student employa	4 4 4, 16 4 4 5, 13,14,15, 16 4 4 4 4, 9 4, 9 4, 9 4, 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 4th 4th 4th 5th 5th 5th 5th 6th 3 (2021) 6th 6th 3 (2021)	CUIET
334 335 336 337 338 339 340 341 342 343 344 347 350 351 352 353 354 357 358 360 361 362 363 364 365	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Management System  Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Disaster Management Distal Marketing Programmin in Java Maior Project From End Development Software Testing Operating System Concepts Digital Marcheting Programmin in Interfaces and Process Programming in Python Multimedia & Animation Data Warchousing & ETI. Technologies Back End Development Algorithm Design and Implementation Cyber Security Programming Practices Advance Java Programming Introduction to Data Sciences Design Concepts & Concerns Introduction to Cloud & IoT System Design Industrial Training Project - I Social Communication Disaster management	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability probability. To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object- oriented programming features with respect to Java Laneuase  To novide the means to better understand about the roposed development life cycle  Understanding component-based web application development process  Planning and Designing Software testing Process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory  Students work on new Technology such as AR /VR  Learn Professional way of writing code using modular and object-oriented approach.  Understanding the avaribuse.  Designing and developing data driven applications using MongoDB  Understanding the Java concepts for making student employable in robust software development environment  Learn Bortist was avaribuse.  Designing and tools for transformation of data  Studying the concept of OOPS and its benefits  Implement various events classes, event listener and adaptor classes. Understand various collections in Java and their application  Learn about th	4 4 4, 16 4 5, 13,14,15, 16 4 4 4 4 4 4 9,17 4, 9 4, 9 4, 9 4 9,17 4, 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 4th 4th 4th 4th 5th 5th 5th 5th 5th 5th 5th 5th 5th 5	CUIET
334 335 336 337 338 339 340 341 342 343 344 345 346 357 358 357 358 359 360 361 362 363 364 365 366	Basics of Statistical Mathematics  Web Designing Human Values & Professional Ethics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Maragement System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Dissater Management Discrete Mathematics Dissater Management Discrete Mathematics Dissater Management Discrete Mathematics Distrete Management Distrete Marketing Operating System Concepts Digital Interfaces and Process Programming in Python Multimedia & Animation Data Warehousing & ETI. Technologies Back End Development Data Warehousing & ETI. Technologies Back End Development Advance Java Programming Introduction to Data Sciences Design Concepts & Concerns Introduction to Data Sciences Design Concepts & Concerns Introduction to Cloud & IoT System Design Industrial Training Project -1 Social Communication Disaster management Digital Tools and Techniques-1 & II Ceramic-1 & Ceramic-1 II	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability probability. To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Manugement Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object- oriented programming features with respect to Java Laneusae  To provide the means to better understand about the repoicet development life cycle  Understanding component-based web application development process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory.  Students work on new Technology such as AR /VR  Learn Professional way of writing code using modular and object-oriented approach.  Understanding the avariouse.  Designing and developing data driven applications using various tools and techniques.  Recall the architectural design patterns, summarizability problems, and design methodologies and apply these concepts to mini case studies on data warehouse.  Designing and developing data driven applications using MonegolB  Understanding the Java concepts for making student employable in robust software development environment  Learn booth the concept of voter terrorism alone with intellectual pro	4 4 4, 16 4 5, 13,14,15, 16 4 4 4 4 4 4 9,17 4, 9 4, 9 4, 9 4, 9 4, 9 4, 9 4, 9 4, 9	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 4th 4th 4th 5th 5th 5th 5th 6th 3 (2021) 6th 6th 3 (2022) 3 (2022) 3 (2022) 3 (2022) 3 (2022)	CUIET
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334 335 336 337 338 339 340 341 342 343 344 345 346 350 351 352 353 354 355 356 367 368 369	Basics of Statistical Mathematics  Web Designing Human Values & Professional Editics/Indian Culture Fundamentals of Object-Oriented Programming Relational Database Maragement System Web Programming using PHP Content, Context and Interaction Artificial Intelligence Discrete Mathematics Dissater Management Discrete Mathematics Dissater Management Discrete Mathematics Dissater Management Discrete Mathematics Distater Management Digital Marketing Programming in Java Maior Project Front End Development Software Testing Operating System Concepts Digital Interfaces and Process Programming in Python Multimedia & Animation Data Warehousing & ETI. Technologies Back End Development Java Programming Practices Advance Java Programming Introduction to Data Sciences Design Concepts & Concerns Introduction to Data Sciences Design Concepts & Concerns Introduction to Cloud & IoT System Design Industrial Training Project -1 Social Communication Disaster management Digital Tools and Techniques-1 & II Ceramic-1 & Ceramic-II Aesthetics-1 & Aesthetics-II Portrait Painting-1 & Portrait Painting-II	To analyze and correlate many real-life problems mathematically and thus find the appropriate solution for them using theory of probability To design and develop static webpages.  Learners shall be aware of the development of legal analysis, legal communication, and legal research  Apply the OOPS paradigm to solve real life problems  Describe the fundamental elements of Database Management Systems with a focus on Relational Database management systems  Modularize their problems using Functions and Constructs, PHP and the Web, Arrays and implementation of Dynamic Website  students chose their own theme based in SDGs related to digital ecosystem  Learn the basic concepts of Artificial Intelligence  To solve real life problems using combinatory  To increase the knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.  Provide online tools to implement social media marketing to increase the online presence to business  Awareness of object- oriented moranmina features with respect to Java Language  To provide the means to better understand about the project development life cycle  Understanding component-based web application development process  Paramia and Designing Software testing Process  Learn to manage memory using various allocation methods and address translation schemes, appraise concept of paging and concept of virtual memory  Students work on new Technology such as AR /VR  Learn Professional way of writing code using modular and object-oriented approach.  Understand multimedia and animation components using various tools and techniques  Recall the architectural design patrents, summarrisability problems, and design methodologies and apply these concepts to mini case studies on data warehouse.  Designing and developing data driven applications using Wingsolute to proper to the cyberspace  Understand multimedia and animation components using various tools and techniques  Recall the architectural design patrents, summarrisability probl	4 4 4, 16 4 4 5, 13,14,15, 16 4 4 4 4 4 4 4 9 4, 9 4, 9 4, 9 4, 9 4,	2nd 2nd 2nd 2nd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 3rd 4th 4th 4th 4th 5th 5th 5th 5th 6th 3 (2021) 6th 6th 3 (2022) 3 & (2022) 3 & (2022) 3 & (2022) 3 & (2022) 4 & (2021)	CUIET
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376	Gender Studies and Media	To understand the role of the media in constructing gender and its intersections with sexuality, race and ethnicity.	5,10	Third	Chitkara School of Mass Communication
377	Cyber Security	Understand the Information Technology Act of India (ITA).Protect themselves from various Cybercrimes.	16	Third	Chitkara School of Mass Communication
378	Media Laws	To understand the basic press and media laws in India	16	Fourth	Chitkara School of Mass Communication
379	Media Ethics	To understand the ethical dilemmas and new standards of journalism ethics.	16	Fourth	Chitkara School of Mass Communication
380	Human Rights	The students shall be able to link value education towards professional ethics.	16	Fourth	Chitkara School of Mass Communication
	Production for Digital Media	The student will learn to create digital content for different social media platforms.	9	Fourth	Chitkara School of Mass Communication
382	Corporate Communication	The students shall attain knowledge about the definitions and concepts of corporate communication.	8	Fifth	Chitkara School of Mass Communication
383	Mental well being and Happiness	To provide students with the comprehensive understanding of mental health and well being.	3	Fifth	Chitkara School of Mass Communication
	Industrial Training	The students shall perform in his selective media industry and exhibiting the talent may be absorbed in the industry before getting the	8	Sixth	Chitkara School of Mass Communication
	Reporting, Editing and Photography	degree in hand.  To understand News its and elements, news sources and different types of news.	8	First	Chitkara School of Mass Communication
<u> </u>	Media Management		9	Second	Chitkara School of Mass Communication
387	Media Ethics and Law	Able to understand basic elements of functioning of a media organization  To introduce Indian Constitution with a focus on the responsibility of the Constituent Assembly in framing the Constitution and probing	16	Second	Chitkara School of Mass Communication
	New Media	the real meaning of the Preamble.	9		
	Media Research	Students will be able to analyze the sensitive issues of the society and report accordingly.  To develop an understanding of media industries and institutions, the role that research plays within the knowledge economy and future	9	Second	Chitkara School of Mass Communication  Chitkara School of Mass Communication
		career development.			
<b>—</b>	Corporate Communication	The students shall attain knowledge about the definitions and concepts of corporate communication.	8	Third	Chitkara School of Mass Communication
391	New Media Production	Students will be able to write effectively for the online platforms  The students shall perform in his selective media industry and exhibiting the talent may be absorbed in the industry before getting the	9	Third	Chitkara School of Mass Communication
392	Industrial Training	degree in hand.  The course introduces design principles and their application in 2D and 3D compositions, along with the study of architectural design	8	Fourth	Chitkara School of Mass Communication
393	Architectural Design I	and space usage. It includes exercises on designing single-purpose spaces and uni-functional buildings, with a focus on anthropometrics,	9,12	1	CSPA-Architecture
		scale, proportions, and the multi-sensory aspects of space.  The course covers the manufacturing process, types, properties, and uses of various building materials like bricks, stone, cement,			
394	Building Materials and Construction I	mortar, and concrete, along with practical site visits. It also delves into the structural and functional roles of different components of a building, types of masonry, foundations, damp-proofing methods, traditional construction techniques, and details of openings and	9,11,12,13	1	CSPA-Architecture
		flooring.  The course covers reading and analytical skills for literature, essay writing with a focus on thesis statements, essay structure, and			
395	Communication Skills	various types of essays. It also includes vocabulary enhancement through synonyms, antonyms, anonyms, and one-word substitution, as well as skills related to effective listening, note-taking, report writing, presentation techniques, public speaking, and group discussion.	4,5,16,17	1	CSPA-Architecture
		The course introduces architectural design and space usage, with a focus on site planning, the relationship between indoor and outdoor			
396	Architectural Design II	spaces, and the interdependence of form, function, building materials, and structure. It includes exercises on designing simple, single- storeyed buildings and multi-cellular structures, culminating in a comprehensive design project involving a single-storeyed, multi-	9,12	2	CSPA-Architecture
		functional building.  The course covers topics related to timber, including types, properties, defects, seasoning, and uses. It explores basic carpentry joints			
397	Building Materials and Construction II	for doors and windows, roofing materials for sloping roofs, lintels, arches, types of doors and windows in timber, wood construction characteristics, timber frame walls, flooring types, and various timber roofs with construction methods. The content also includes	9,11,12,13	2	CSPA-Architecture
		details on wall paneling, timber partition walls, and finishes for timber floors.  The course covers essential skills in Microsoft Office applications, starting with MS Word, where participants learn document creation,			
398	Computer Applications in CSPA-	formatting, inserting elements like pictures and tables, and utilizing features like headers, footers, and page numbers. In MS Excel, the focus is on creating workbooks, formatting data, applying functions, and creating charts, while MS PowerPoint instruction includes	9,12	2	CSPA-Architecture
570	Architecture I	creating presentations, applying templates and themes, inserting various elements, and delivering effective presentations with tips on	7,12	-	COLIT A MEMBERGA
		The course covers lectures on the design aspects of 2-storeyed, load-bearing buildings, followed by a minor design project related to			
399	Architectural Design III	vehicular movements. The final part includes lectures on campus design and a comprehensive project for a small campus like a primary school, emphasizing structures and building services, with additional time devoted to model making techniques.	9,12	3	CSPA-Architecture
		The course covers glass manufacturing, paints, cladding, and plastering in Unit-I. Unit-II explores staircase design, false ceilings,			
400	Building Materials & Construction III	aluminum partitions, doors, and windows. Unit-III details sections of a 2-4 storeyed building, covering toilets, staircases, walls, floors, and roof. Suggested reference books include "Building Construction Illustrated" by Francis D.K. Ching and "The Construction of	9,11,12,13	3	CSPA-Architecture
		Buildings" by R Barry.  The course begins with an introduction to building services, emphasizing the architect's role in providing services for contemporary			
401	Building Services I	buildings. It then covers water supply, sewage disposal systems, and rainwater harvesting, exploring their components and connections within the context of residential buildings.	6,7,9,11,12,13	3	CSPA-Architecture
	Computer Applications in CSPA	The course begins with fundamental commands and tools in AutoCAD (Unit-I), covering basic drawing, editing commands, advanced			
402	Computer Applications in CSPA- Architecture II	object types, text, dimensions, and workspace organization. Unit-II focuses on advanced commands such as block insertion, layout setup, Express Tools, external references, and shortcuts. Lastly, Unit-III introduces AutoCAD Sheet Sets, covering topics like creating	9,12	3	CSPA-Architecture
		and managing sheet sets, views, plot styles, page setups, and publishing to various file types.  The course covers lectures on the design of 4-storeyed buildings, including frame structures, vertical circulation, building services, and			
403	Architectural Design IV	vernacular architecture with climate-responsive techniques. It also includes practical projects designing a region-specific Cafe/Takeaway Restaurant and a 9-week project involving a Motel/Youth Hostel with Restaurant, Dharamshala, Boutique Hotel, and	9,11,12, 13	4	CSPA-Architecture
		Focal Building.			
404	Climatology	The course covers the fundamentals of Climate Responsive Architecture, including an introduction to climatic elements, zones in India, and bioclimatic design principles. It progresses to explore global climate, solar path, shading devices, heat exchange, and microclimatic	9,13	4	CSPA-Architecture
		factors, including case studies of indigenous shelters and contemporary passive design methods across different climatic zones.  The course covers advanced concrete materials and techniques, such as Air Entrained Concrete, Ready Mix Concrete, and Fiber			
405	Building Materials & Construction IV	Reinforced Concrete. Additionally, it explores various infill wall materials, types of concrete formworks, scaffolding, shoring, and	9,11,12,13	4	CSPA-Architecture
		construction details for columns, beams, expansion joints, and basements.  The course covers sewage disposal, including campus-level treatment plants and solid waste disposal in multistorey buildings. It also explores electrical services, focusing on electricity generation, distribution, wiring, protection, earthing, and energy efficiency.			
406	Building Services II	Additionally, the course covers mechanical transportation systems, such as lifts, escalators, and travelators, emphasizing design	6,7,9,11,12,13	4	CSPA-Architecture
	a	considerations and standards, with recommended site visits for practical understanding.  The course introduces SketchUp, covering setup, basic geometry, 3D construction, modification tools, groups/components, materials,			
407	Computer Applications in CSPA- Architecture III	text, and dimensions. It also explores sectioning, styles, imaging with V-Ray, and animations, including predefined styles, scene creation, layers, lighting, shadows, and exporting models to various formats.	9,12	4	CSPA-Architecture
		The course involves two design projects. The first project focuses on designing a small group of 3-4 storied buildings, incorporating			
408	Architectural Design V	aspects of building and vehicular/pedestrian circulation for recreational or mixed-use complexes. The second project centers on the design of a small group of industrial buildings with a focus on steel construction, including lectures on understanding steel construction	7,9,12	5	CSPA-Architecture
		and case examples of recent industrial buildings. Additionally, a special lecture by an eminent architect is recommended during the semester.			
400	Duilding Materials & Community V	The course content covers the fundamentals of construction in steel, including characteristics of steel sections, jointing methods, and applications in various structures and building parts. It further explores frame construction elements such as columns, footings, beams,	0.11.12.12		CSDA Activities
409	Building Materials & Construction V	outer walls, lightweight partitions, doors, windows, floors, mezzanine floors, stairs, trusses, and structural details of a north light truss roofing system.	9,11,12,13	5	CSPA-Architecture
	n av	The course covers Heating, Ventilation & Air Conditioning (HVAC) with a focus on ventilation, HVAC system types, design considerations, AC ducting, and a case study. Additionally, it introduces the basics and advanced aspects of Fire Fighting Services,		_	agree : :
410	Building Services III	consucrations, Actioning, and case study, redundingly it introduces the basics and advanced aspects of the righting Services, covering passive and active measures, structural fire protection, and National Building Codes for firefighting. Site visits are recommended for a practical understanding of the subject.	6,7,9,11,12,13	5	CSPA-Architecture
	Computer Applications in CSPA-	The course emphasizes practical application in Revit Architecture, requiring students to develop a portfolio from the design project. It			
411	Architecture IV	covers drawing preparation, image enhancement, 3D model manipulation, integration with photos, depth perception, and animation in Photoshop. Assessment includes a portfolio project covering image manipulation, 3D model integration, and animation tasks.	9,12	5	CSPA-Architecture
		The course features two design projects. Project One involves designing multistoried buildings on a sloping site, emphasizing space			
412	Architectural Design VI	analysis, climatic considerations, services, environmental issues, and contour site planning. Project Two focuses on landscaping details, including hardscape, softscape, and technology integration in the design process. Field trips are mandatory, and at least one special between two majorat exciting in processing the properties of the	7,9,12	6	CSPA-Architecture
		lecture by an eminent architect is recommended.  The course covers Alternate Construction Materials such as Rice Husk Ash, Ferro cement, Tire Veneer, and others in Unit I. Unit II			
413	Building Materials & Construction VI	The coarse over a mentione Constitution Manatanas as and as New Town Asia, Turn Contain, the Contain and Contains in Online in International Courses on Prefabrication & Precasting, including precast RCC frames and connections between components. Until III explores Speedy Construction Methods, including one-way and two-way slabs, lift slab construction, and modular coordination in Unit IV.	9,11,12,13	6	CSPA-Architecture
		The course covers BIM and Revit concepts, setting up projects, basic architectural modeling, and adding features like columns, walls,			
414	Computer Applications in CSPA- Architecture V	doors, and windows. It further includes creating views, families, and modifying components, as well as managing projects in Revit workflow, covering templates, standards, text, dimensions, details, tags, and sheet setup for plotting.	9,12,13	6	CSPA-Architecture
		The course covers "Cost-effective Architecture," addressing the definition, strategies, and organizations related to Cost-effective			
415	Cost Effective Architecture	Buildings (CEBs). It explores techniques, technologies, and materials for cost reduction, including case studies of architects like Laurie Baker and examples of affordable housing. The emphasis is on analyzing cost-effective building designs in terms of initial investment,	9,12	6	CSPA-Architecture
1		maintenance, and longevity.	4,5,10,16,17	6	CSPA-Architecture
416	Human Rights & Values	The course entails designing a 6-8 storeyed urban building (mixed-use or specialized) with lectures covering functional aspects,			CSPA-Architecture
	Human Rights & Values  Architectural Design VII		7 9 12	7	
	Human Rights & Values  Architectural Design VII	structure, and services. Students create detailed drawings and models, aiming for a well-designed structure, and a special lecture by an eminent architect is included.	7,9,12	7	CSI A-Arcinicciaic
417		structure, and services. Students create detailed drawings and models, aiming for a well-designed structure, and a special lecture by an eminent architect is included.  The course introduces Disaster Risk Management (DRM) with a focus on natural and human-induced disasters, hazard identification, vulnerability assessment, and the DRM cycle. It explores design principles and measures for building safety, emergency response, and	7,9,12 9,13	7	CSPA-Architecture
417	Architectural Design VII	structure, and services. Students create detailed drawings and models, aiming for a well-designed structure, and a special lecture by an eminent architect is included.  The course introduces Disaster Risk Management (DRM) with a focus on natural and human-induced disasters, hazard identification, vulnerability assessment, and the DRM cycle. It explores design principles and measures for building safety, emergency response, and recovery. The application involves a case study on a public building in an urban context, emphasizing risk assessment and the formulation of a Disaster Risk Management Plan.			
417	Architectural Design VII	structure, and services. Students create detailed drawings and models, aiming for a well-designed structure, and a special lecture by an eminent architect is included.  The course introduces Disaster Risk Management (DRM) with a focus on natural and human-induced disasters, hazard identification, vulnerability assessment, and the DRM cycle. It explores design principles and measures for building safety, emergency response, and recovery. The application involves a case study on a public building in an urban cortext, rephasizing risk assessment and the			





Development Communication   To educate the students to deal with the challenges they face in communicating about development and economic issues.   13,10   Second Chitkara School of Mass Communication   4,16			les a company of the	T		T
24   Venture   10   Tenture   10	420	Conservation of Historic Buildings	causes, and intervention methods like preservation and adaptive reuse. The practical component involves a case study, documenting a historic site and providing recommendations for conservation actions.	9,11,12,13	7	CSPA-Architecture
22. Achievement Dropy VIII	421	Vernacular Built Environments	The course covers vernacular architecture, exploring challenges and global examples, emphasizing determinants like culture, climate, and materials. It includes case studies from India, Asia, and Africa, analyzing socio-cultural aspects, climatic influences, and	9,13	7	CSPA-Architecture
□         State New Development of the Balls of State St	422	Architectural Design VIII	The course focuses on urban design projects, including redevelopment of small-scale urban areas and new initiatives like community centers. Special lectures cover principles, methodologies, and case studies. In groups of 2-4, students create drawings and models	7,9,11,12,13	8	CSPA-Architecture
April   Process   Proces	423		The course covers sustainability fundamentals, including its global importance and impact on the built environment. It explores	9,11,12,13	8	CSPA-Architecture
The course cances on the Table spright, where subme and produce an illustrational operators coming product withing a series. An object of the product of the common and product as illustrations and product of the common and product as illustrations and product of the common and product as illustrations and product of the common and product as illustrations and product of the common and product as illustrations and product of the common and product as illustrations and product of the common and product as illustrations are common and product as illustrations and product as illustrations are common and product as in the product measures.    10	424	Professional Internship	Act 1972, the Council of Architecture, and the Indian Institute of Architects. It also explores architectural practice, including office setup, organizational management, competitions, valuation methods, and professional conduct, addressing duties, liabilities, and the resolution of complaints under the Indian Architects Act 1972.	4,8,9,17	9	CSPA-Architecture
20	425	Architectural Thesis	methodology, theoretical studies, site and climatic analysis, client's and architect's briefs, program delineation, and design criteria. A fully developed design proposal is also required, addressing functional efficiency, site planning, climatic appropriateness, structures,	7,9,11,12,13	10	CSPA-Architecture
Control to Suppress   Tributer designation of the completed information of the completed in the information of the completed information of the completed in the information of the completed in the information of the com	426	Entrepreneurship Skills for Architects	influences. It also includes Business topics like small enterprises, project formulation, financing, accounting, and Support to	9,11	10	CSPA-Architecture
The process of the content of the	427	Disaster Management	To exect a supremose among students about the concentral understanding of disasters and its relationships with day down	11 12 17	DA IMC	
Secretary of the secretary of the secretary of the college of power and the college of the secretary of of the secretar	428					
Medical Letters   To present the control of the ministry   4.5   Second Childran School of Mass Communication   To Understand the role of the media in control school of the school of		Environment Science	To understand the concept of climate change, global warming, acid rain, various disasters and its mitigation measures.		First	Chitkara School of Mass Communication
Control Cont	429	Development Communication	To educate the students to deal with the challenges they face in communicating about development and economic issues.	13,10	Second	Chitkara School of Mass Communication
Seed to States and Weeks States and Meeks States and Meek	430	Media Literacy	To prepare skilled digital journalist, professionals for the industry.	4,16	Second	Chitkara School of Mass Communication
Second June   Power of the Second Process of the Communication Communi	431	Gender Studies and Media	To understand the role of the media in constructing gender and its intersections with sexuality, race and ethnicity.	5,10	Second	Chitkara School of Mass Communication
Weds thiss   To understand the ethical alternmas and new standards of journalism ethics.   16 Fourth   Ohlisa's School of Mass Communical Standards   16 Fou	432	Cyber Security	Understand the Information Technology Act of India (ITA). Protect themselves from various Cybercrimes.	16	Third	Chitkara School of Mass Communication
Foundation   Tensor   Continues to the continue events are learned to what communication   Tensor   Continues to the continues professional edition.   Tensor   Continues to the continues   Tensor   Continues to the continues   Tensor   Continues to the continues   Tensor	433	Media Laws	To understand the basic press and media laws in India	16	Third	Chitkara School of Mass Communication
Provided Register Communication  The student will learn to create digital content for different social media platforms.  9 Fourth Childran School of Mass Communication  The students shall attain knowledge about the definitions and concepts of corporate communication.  8 Fourth Childran School of Mass Communication  To provide students with the compenhence understanding of merital health and well being.  9 Institute with the compenhence workers and students with the compenhence workers and such years and shall be about on the industry before getting the degree in hand.  4 Vedia Management Ale to understand basic elements, news sources and different types of news.  4 Vedia Management Ale to understand basic elements of functioning of a media organization  4 Vedia United School and American School and Scho	434	Media Ethics	To understand the ethical dilemmas and new standards of journalism ethics.	16	Fourth	Chitkara School of Mass Communication
Amend well being and taggeness  Amend and amend amend and amend amend and amend amend and amend and amend amend and amend amend amend amend and amend amend and amend amend amend amend and amend amen	435	Human Rights	The students shall be able to link value education towards professional ethics.	16	Fourth	Chitkara School of Mass Communication
topolate Communication The students shall attain browledge about the definitions and concepts of corporate communication.  The students will be separe in hand.  The students will be compenitive understanding of metal health and well being.  The students will be degree in hand.  The students will be students and the compenitive understanding of metal health and well being.  The students will be degree in hand.  The students will be added to the students and students and candidates and enablising the statent may be absorbed in the industry before getting the degree in hand.  The students will be added to the students and students and enablising the statent may be absorbed in the industry before getting the degree in hand.  The students will be added to an additional to the students and enabling the students and stu	436	Production for Digital Media	The student will learn to create digital content for different social media platforms.	9	Fourth	Chitkara School of Mass Communication
Mental well being and Happiness To provide students with the comprehensive understanding of mental health and well being.  The students shall perform in its selective media vidualizing of mental health and well being.  The students shall perform in its selective media vidualizing of mental health and well being.  The students shall perform in its selective media vidualizing of mental health and well being.  The students shall perform in its selective media vidualizing of mental performs the students of these communication.  The decident in the disease in health of the students of functioning of a mental arguments.  All the to understand basic clientents of functioning of a mental arguments.  To beropice reduce constitution with a force on the responsibility of the Constitution and problems of the students of functioning of a mental arguments.  To devote a munderstanding of media industries and institutions, the north that research plays within the howledge economy and duction of the students will be able to analyze the sensitive issues of the society and report accordingly.  The decide Research  To devote an understanding of media industries and institutions, the north that research plays within the howledge economy and duction.  The students shall attain knowledge about the definitions and concepts of corporate communication.  The students will be able to analyze the sensitive issues of the society and report accordingly.  The decide Research  The devotes an understanding of media industries and institutions, the north that research plays within the howledge economy and duction.  The students will be able to write effectively for the outline platforms.  The students will be able to write effectively for the outline platforms.  The students will be able to write effectively for the outline platforms.  The students will be able to write effectively for the outline platforms.  The students will be able to write effectively for the outline platforms.  The students will be able to write effectively for the outline	437		The students shall attain knowledge about the definitions and concents of corporate communication			
Moderal Production  And Segorating and Photography  And Segorating and Segorat	438					
the degree in hand.  If our understand however, the and elements, news sources and different types of news.  Alle to understand basic elements of functioning of a media organization  To introduce indian Constitution with a focus on the responsibility of the Constitution and problems or the source of the control of the source of the source of the source of the source of the control of the source of th	-	Mental well being and Happiness		3	Fifth	Chitkara School of Mass Communication
Appropriate   Control of Part Control of Par	439	Industrial Training	the degree in hand.	8	Fifth	Chitkara School of Mass Communication
Also to intername both comments of uncertainty of the Constituent Assembly in framing the Constituent	440	Reporting, Editing and Photography	To understand News its and elements, news sources and different types of news.	8	Sixth	Chitkara School of Mass Communication
Media Ethics and Law	441	Media Management	Able to understand basic elements of functioning of a media organization	9	First	Chitkara School of Mass Communication
New Media   Students will be able to analyze the sensitive issues of the society and report accordingly.   9   Second   Chistara School of Mass Communication   1   1   1   1   1   1   1   1   1	442	Media Ethics and Law		16	Second	Chitkara School of Mass Communication
Media Research   To develop an understanding of media industries and institutions, the role that research plays within the knowledge economy and future career development.   Substant School of Mass Communication   The students shall attain knowledge about the definitions and concepts of corporate communication.   8	443					
Add   Corporate Communication   The students shall attain knowledge about the definitions and concepts of corporate communication.   8   Third   Chitkara School of Mass Communication   1447   Moustrial Training   The students shall perform in his selective media industry and exhibiting the talent may be absorbed in the industry before getting   9   Third   Chitkara School of Mass Communication   1448   Facility planning   Third   The students shall perform in his selective media industry and exhibiting the talent may be absorbed in the industry before getting   8   Third   Chitkara School of Mass Communication   1449   Third   T	444					
Students will be able to write effectively for the online platforms   9   Third   Chitkara School of Mass Communica   147   Industrial Training   The students shall perform in his selective media industry and exhibiting the talent may be absorbed in the industry before getting   8   Third   Chitkara School of Mass Communica   148   Statistical Programs   148	445					
The students shall perform in its selective media in insist yard exhibiting the talent may be absorbed in the industry before getting the degree in hand.  Any Industrial Training Training Training The students shall perform in its selective media industry and exhibiting the talent may be absorbed in the industry before getting the degree in hand.  Any Christian School of Mass Communical National Performance (Series Performance). The performance of the performance o	446					
Hard   Heating   Market   Heating						
Sanitation and waste Disposal system (STP WTP), Repair and maintenance, License, Plant maintenance, Star classification as per FIRAL - Environment & Energy Awareness	777	Industrial Training		8	Third	Chitkara School of Mass Communication
Final   Fenvironment & Energy Awareness   Fourth   Chitkara School of Mass Communication   Fourth   Chitkara School of Mass Communication   Fourth   Sanitation, Shelter, and Health, Waste Management   Sanitation, Shelter, S	448	Facility planning		11,6,4		
Sanitation, Shelter, and Health, Waste Management   Sanitation, Shelter, Shelt			FHRAI - Environment & Energy Awareness		Fourth	Chitkara School of Mass Communication
450   Environmental studies   Introduction to Environmental Resources. Ecosystem and Biodiversity. Environmental Pollution. Social   6,11,13,15   5   CCHM	449	Disaster management	Sanitation, Shelter, and Health, Waste Management	15,13,12,11	4	ССНМ
451 HMG6101   Food Production   1,2,9,11,12   1   CCHM	450	Environmental studies	Introduction to Environmental Science. Environmental Resources. Ecosystem and Biodiversity. Environmental Pollution. Social	6,11,13,15	5	ССНМ
453 HMC3104   Accommodation Operation   2,9.12   1   CCHM			Food Production I		1	
454   HMC3104   Accommodation Operation   2,9,12   I   CCHM						
455   HMC6111	453	HMC3103				
1.55   HMC3112		HMC6111	Food Production II			
488 HM03114         Accommodation Operation II         2,9,12         II         CCHM           459 HM02117         Customer Relations Management         4         II         CCHM           460 HM12115         Business Communication II         4,5,8,15         II         CCHM           461 HMP4201         Food Production Application         12,69,11,12         III         CCHM           462 HMP4202         Food & Beverage Application         3,9,12         III         CCHM           463 HMP4203         Front Office Application         2,9,12         III         CCHM           464 HMP4204         Accommodation Application         2,9,12         III         CCHM           465 HML2208         Foundation Course in Tourism         4         III         CCHM           466 HML2209         Human Resource Management         4         III         CCHM           467 HML2206         Hospitality Marketing         1,2,8,911,12         III         CCHM           468 HML2318         Facility Planning         6,5,11,12         III         CCHM           470 HM2205         Business Communication III         4,5,8,15         II         CCHM           470 HM2317         Human Values & Ethics         4,5,8,15         IV         CCHM </td <td></td> <td></td> <td></td> <td>1,2,9,12</td> <td></td> <td></td>				1,2,9,12		
4					II	
460 HML2115   Business Communication II   4,5,8,15   II   CCHM				-,-,	11	
461 HMP4201	460	HML2115	Business Communication II	4, 5, 8, 15	II	ССНМ
463 HMP4203	461	HMP4201	Food Production Application	1,2,6,9,11,12		CCHM
464 HM/4204         Accommodation Application         2,9,12         III         CCHM           465 HM/2208         Foundation Course in Tourism         4         III         CCHM           466 HM/2209         Human Resource Management         4         III         CCHM           467 HM/2206         Hospitally Marketing         1,2,8,91,12         III         CCHM           468 HM/2218         Facility Planning         6,81,1,12         III         CCHM           469 HMP2205         Business Communication III         4,5,8,1,5         III         CCHM           470 HM/2201         Business Internship I         2,12         IV         CCHM           471 HM/2316         Disaster management         1,2,45,89,10,2,1         IV         CCHM           473 HM/301         Business Internship II         2,12         V         CCHM           473 HM/216         Cyber Security         4,8,11         V         CCHM           475 HM/2207         Environmental Studies         1,2,3,8,9,12         V         CCHM           475 HM/2207         Environmental Studies         1,2,3,8,9,12         V         CCHM						
465 HML2208	464	HMP4204				
467   HML2206   Hospitality Marketing   1,2,8,911,1/2   III   CCHM	TUPE		Foundation Course in Tourism	4	III	ССНМ
468   HML2318   Facility Planning   6,8,11,12   III   CCHM	465					
469 IHMP2205     Business Communication III     4,5,8,15     III     CCHM       470 IHMP2201     Business Internship I     2,12     IV     CCHM       471 IHML2317     Human Values & Ethics     4,5,8,15     IV     CCHM       472 IHML2316     Disaster management     1,2,4,58,10,12,1     IV     CCHM       473 IHMP3001     Business Internship II     2,12     V     CCHM       474 IHML2116     Cyber Security     4,8,11     V     CCHM       475 IHML207     Environmental Studies     1,2,3,8,9,12     V     CCHM       476 IHMP301     Hospitality Project     2,12     VI     CCHM	465 466			1 1 2 8 9 11 12		
470 HMT9201         Business Internship I         2.12         IV         CCHM           471 HML2317         Human Values & Efficis         4,5,8,15         IV         CCHM           472 HML2316         Disaster management         1,2,458,9,10,12,1         IV         CCHM           473 HMT3301         Business Internship II         2,12         V         CCHM           474 HML2116         Cyber Security         4,8,11         V         CCHM           475 HML207         Environmental Studies         1,2,3,8,9,12         V         CCHM           476 HMP9301         Hospitality Project         2,12         VI         CCHM	465 466 467	HML2206		6 9 11 12		
471   HML2317     Human Values & Ethics     4,5,8,15     IV     CCHM       472   HML2316     Disaster management     1,2,458,91,01,21     IV     CCHM       473   HMT9301     Business Internship II     2,12     V     CCHM       474   HML2116     Cyber Security     4,8,11     V     CCHM       475   HML2207     Environmental Studies     1,2,3,8,9,12     V     CCHM       476   HMP9301     Hospitality Project     2,12     VI     CCHM	465 466 467 468	HML2206 HML2318	Facility Planning	6,8,11,12		
473 HMT9301         Business Internship II         2,12         V         CCHM           474 HML2116         Cyber Security         4,8,11         V         CCHM           475 HML2207         Environmental Studies         1,2,3,8,9,12         V         CCHM           476 HML9301         Hospitality Project         2,12         VI         CCHM	465 466 467 468 469	HML2206 HML2318 HMP2205	Facility Planning Business Communication III	6,8,11,12 4, 5, 8, 15	III	CCHM
474 HML2116         Cyber Security         4, 8,11         V         CHM           475 HML2207         Environmental Studies         1,2,3,8,9,12         V         CCHM           476 HMP9301         Hospitality Project         2,12         VI         CCHM	465 466 467 468 469 470 471	HML2206 HML2318 HMP2205 HMT9201 HML2317	Facility Planning Business Communication III Business Internship I Human Values & Ethics	6,8,11,12 4, 5, 8, 15 2,12 4, 5, 8, 15	III IV IV	CCHM CCHM CCHM
475 HML2207         Environmental Studies         1,2,3,8,9,12         V         CCHM           476 [HMP9301         Hospitality Project         2,12         VI         CCHM	465 466 467 468 469 470 471 472	HML2206 HML2318 HMP2205 HMT9201 HML2317 HML2316	Facility Planning Business Communication III Business Internship I Human Values & Ethics Disaster management	6,8,11,12 4, 5, 8, 15 2,12 4, 5, 8, 15 1,2,4,58,9,10,12,1	III IV IV	CCHM CCHM CCHM CCHM
476 HMP9301 Hospitality Project 2,12 VI CCHM	465 466 467 468 469 470 471 472 473	HML2206 HML2318 HMP2205 HMT9201 HML2317 HML2316 HML79301	Facility Planning Business Communication III Business Internship I Human Values & Ethics Disaster management Business Internship II	6,8,11,12 4, 5, 8, 15 2,12 4, 5, 8, 15 1,2,4,58,9,10,12,1 2,12	III IV IV IV V	CCHM CCHM CCHM CCHM CCHM
477   HMP4305   Business Communication IV   4.5.8.15   VI   CCHM	465 466 467 468 469 470 471 472 473 474	HML2206 HML2318 HMP2205 HMT9201 HML2317 HML2316 HMM2316 HMM2116	Facility Planning Business Communication III Business Internship I Human Values & Ethics Disaster management Business Internship II Cyber Security	6,8,11,12 4, 5, 8, 15 2,12 4, 5, 8, 15 1,2,4,58,9,10,12,1 2,12 4, 8,11	III IV IV IV V	CCHM
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