Class	Semester	Name of Subject	Subject Code	CO No.	СО
Class	semester	Name of Subject	Subject Code	CO No.	Apply the concepts of algebra to solve engineering (discipline) related problems.
		BASIC MATHEMATICS		CO2	Utilize trigonometry to solve branch specific engineering problems.
FY	1		311302	CO3	Solve area specific engineering problems under given conditions of straight lines.
				CO4	Apply differential calculus to solve discipline specific problems.
				CO5	Use techniques and methods of statistics to crack discipline specific problems.
				CO1	Construct grammatically correct sentences in English
51				CO2	Compose paragraphs and dialogues on given situations
FY	1	COMMUNICATION SKILLS (ENGLISH)	311303	CO3	Comprehend passages correctly.
				CO4	Use contextual words in English appropriately
				CO5	Deliver effective presentations in English using appropriate body language
			311305	CO1 CO2	Use basic instruments to measure the physical quantities in various engineering situations.  Apply the basic principles of electromagnetics to solve given engineering problems.
				CO3	Apply basic principles of electromagnetics to solve given engineering problems.  Apply basic principles of thermometry and fibre optics to solve engineering problems.
FY	1	BASIC SCIENCE			Predict the structure, properties and behaviour of molecules and compounds based on the types of
				CO4	chemical bond.
				CO5	Apply the concepts of electrochemistry and corrosion preventive measures in industry.
				CO6	Use the appropriate engineering material and catalyst appropriately.
	1	FUNDAMENTALS OF ICT	311001	CO1	Use computer system and its peripherals for given purpose
				CO2	Prepare Business document using Word Processing Tool
FY				CO3	Analyze Data and represent it graphically using Spreadsheet
				CO4	Prepare professional Slide Show presentations
				CO5	Use different types of Web Browsers and Apps
				CO6	Explain concept and applications of Emerging Technologies
				CO1	Carry-out elementary level maintenance of a PC
				CO2	Create partitions and format hard disk drive
FY	1	ENGINEERING WORKSHOP PRACTICE	311002	CO3	Install and configure Operating system.
					Configure different types of peripheral devices.
				CO5	Setup small Local Area Network.  Use diagnostic software for fault finding in Computer system.
				CO1	Use diagnostic software for fault finding in Computer system.  Practice basic Yoga and Pranayama in daily life to maintain physical and mental fitness.
					Tractice basic roga and Frankyama in daily life to maintain physical and mental necess.
FY	1	YOGA AND MEDITATION	311003	CO2	Practice meditation regularly for improving concentration and better handling of stress and anxiety.
				CO3	Follow healthy diet and hygienic practices for maintaining good health.
		ENGINEERING GRAPHICS		CO1	Draw geometrical figures and engineering curves.
				CO2	Apply principles of orthographic projections for drawing given pictorial views.
FY	1		311008	CO3	Apply basic CAD commands for drawing different entities
				CO4	Use various drawing codes, conventions and symbols as per IS SP-46 in engineering drawing.
				CO5	Draw free hand sketches of given engineering elements
	2	APPLIED MATHEMATICS	312301	CO1	Solve the broad-based engineering problems of integration using suitable methods
				CO2	Use definite integration to solve given engineering related problems.
FY				CO3	Apply the concept of differential equation to find the solutions of given engineering problems
				CO4	Employ numerical methods to solve programme specific problems.
				CO5	Use probability distributions to solve elementary engineering problems.
	2	ELEMENTS OF ELECTRICAL ENGINEERING	312315	CO1 CO2	Interpret the magnetic field parameters for the particular magnetic circuits
				CO2	Analyze A.C. circuits for single phase and polyphase supply Select the transformer and DC motor for the given application.
FY				CO4	Select the transformer and be motor for the given application.  Select the fractional horse power motor for the given application
				CO5	Choose the protective devices for the electrical protection.
				CO6	Use various types of sensors and transducers.
	2	PROGRAMMING IN C		CO1	Develop C program using input - output functions and arithmetic expressions
			312303	CO2	Develop C program involving branching and looping statements
FY				CO3	Implement Arrays and structures using C programs
				CO4	Develop C program using user-defined functions
				CO5	Write C program using pointer
		BASIC ELECTRONICS	312314	CO1	Use relevant diode in electronics circuits
	2			CO2	Use BJT in electronics circuits
FY				CO3	Use of BJT as amplifier and switch
				CO4	Use FET and MOSFET in electronics circuits
				CO5	Maintain DC regulated power supply
		PROFESSIONAL COMMUNICATION		CO1	Communicate effectively (oral / spoken and Written) in various formal and informal situations minimizing
				CO2	the barriers.
FY	2		312002	CO2	Develop listening skills through active listening and note taking.  Write circulars, notices and minutes of the meeting.
			312002		vertice circulars, notices and minutes of the meeting.
				CO4	Draft inquiry letter, complaint letter, Job application with resume / CV, Compose effective E - mails
				CO5	Write Industrial reports
					Enhance the ability to be fully self-aware and take challenges by overcoming all fears and insecurities and
	2	SOCIAL AND LIFE SKILLS	312003	CO1	grow fully.
					Increase self-knowledge and awareness of emotional skills and emotional intelligence at the place of
				CO2	study/work.
FY				CO3	Provide the opportunity to realizing self-potential through practical experience while working individually
				LU3	or in group.
				CO4	Develop interpersonal skills and adopt good leadership behaviour for self-empowerment and
				CU4	empowerment of others.
				CO5	Set appropriate life goals with managing stress and time effectively.
FY		WEB PAGE DESIGNING	312004	CO1	Use HTML formatting tags to present content on web page.
				CO2	Develop web page using list and hyperlinks.
	2			CO3	Develop web pages using images, colors and backgrounds.
				CO4	Design HTML forms using table and frames.
				CO5	Apply presentation schemes on content using CSS.
				CO6	Publish websites on internet or intranet.
				CO1	Explain concept of database management system.

3 ORTANISC MANAGEMENT 90TEM 131022 CT C C C C C C C C C C C C C C C C C	1 1		1		602	Design the detailers for all or analysis
SY		3	DATABASE MANAGEMENT SYSTEM	313302	CO2	Design the database for given problem.
COS   Apply security and backury methods on distributes	SY					
SY DIGITAL TECHNIQUES 313303 COI Apply brookers system and codes concept to interprete working of digital systems.  20 Apply brookers and codes concept to interprete working of digital systems.  20 Apply brookers and some interpret working of digital systems.  20 Apply brookers and some interpret working of digital systems.  20 Develop of consensational logic circuits for given applications.  20 Develop of consensational post circuit using filling flow.  20 Develop of consensational post circuit using filling flow.  20 Develop of consensational post circuit using filling and objects.  20 Develop of the programs using colored and objects.  20 Develop of the programs to get climate in Circuit.  21 Develop of the programs to perform filling operations.  22 Develop of the programs to perform filling operations.  23 Develop of the programs to perform filling operations.  24 Develop of the programs to perform filling operations.  25 Develop of the programs to perform filling operations.  26 Develop of the programs to perform filling operations.  27 Develop of the programs to perform filling operations.  28 DEVELOP OF THE CONTROL OF TH						
DIGITAL TECHNIQUES  313303  CO2  Apply Society and instruction imminize complex blooked precisions.  CO2  Develop experiental logic circuits varing filty-floaps.  The construction of the construction of given applications.  CO3  Develop experiental logic circuits varing filty-floaps.  The construction of the conserver and memories in digital electronic systems.  CO3  Develop the programs using classes and objects.  CO3  Develop the programs to perform file precisions.  CO3  Develop the programs to perform file precisions.  CO3  Develop the programs to perform file precisions.  CO3  Develop the programs to apply the programs to perform file precisions.  CO3  Develop the programs to apply the programs to perform file precisions.  CO3  Develop the programs to apply the programs to perform file precisions.  CO3  Develop the programs to apply the programs to perform file precisions.  CO3  Develop the programs to apply the programs to perform file precisions.  CO3  Develop the programs to apply the programs to perform file precisions.  CO3  Develop the programs to apply the					+	
SY  SY  OBJICT ORIGITIDES  SI 33303  OBJICT ORIGITIDES  SY  OBJICT ORIGITIDE PROGRAMMING  USING C++  100					<b>I</b>	
SY  OBJECT ORIENTED PROGRAMMING  SY  OBJECT ORIENTED PROGRAMMING  USING C++  1313304  OBJECT ORIENTED PROGRAMMING  USING C++  131304  OBJECT ORIENTED PROGRAMMING  OBJECT ORIENTED PROGRAMMING  USING C++  131304  OBJECT ORIENTED PROGRAMMING  OBJECT ORIEN						
SY A PAROGRAMMING  SY 4 Python programming and bata Structure  SY 4 A Analog and Digital Communication  SY 4 Python programming and Data Structure  SY 4 Python programming and Data Structure  SY 4 Python programming and Data Structure  SY 4 LIAVA PROGRAMMING  SY 5 LIAVA PROGRAMMING  SY 4 LIAVA PROGRAMMING  SY 4 LIAVA PROGRAMMING  SY 4 LIAVA PROGRAMMING  SY 4 LIAVA PROGRAMMING  SY 5 LIAVA PROGRAMMING  SY 6 LIAVA PROGRAMMING  SY 6 LIAVA PROGRAMMING  SY 6 LIAVA PROGRAMMING  SY 6 LIAVA PROGRAMMING  SY 7 LIAVA PROGRAMMING  SY 6 LIAVA PROGRAMMING  SY 7 LIAVA PROGRAMMING  SY 8 LIAVA PROGRAMMING  SY 8 LIAVA PROGRAMMING  SY 9 LIAVA		3	DIGITAL TECHNIQUES	313303		1 0 0 11
SY  OBJECT ORIENTED PROGRAMMING USING C++  313304  OBJECT ORIENTED PROGRAMMING  OSD  Obevelop C++ programs to perform file operations.  OSD  Obevelop C++ programs to perform file operations.  OSD  Obevelop C++ programs to perform file operations.  OSD  Obvelop Daries operation of C++ programs to perform file operatio	SY					Develop sequential logic circuits using Flip-flops.
SY  OBJECT ORIENTED PROCRAMMING USING C++  313304  OBJECT ORIENTED PROCRAMMING USING C++  313304  OBJECT ORIENTED PROCRAMMING USING C++  313304  OBJECT ORIENTED PROCRAMMING  SY  ANALOG ELECTRONICS  313314  OBJECT ORIENTED PROCRAMMING  STANDALOG ELECTRONICS  313314  OBJECT ORIENTED PROCRAMMING  313304  OBJECT ORIENTED PROCRAMMING  313304  OBJECT ORIENTED PROCRAMMING  313304  OBJECT ORIENTED PROCRAMMING  313304  OBJECT ORIENTED PROCRAMMING  313030  OBJECT ORIENTED PROCRAMMING  313030  OBJECT ORIENTED PROCRAMMING  313030  OBJECT ORIENTED PROCRAMMING  313030  OBJECT ORIENTED PROCRAMMING  OD USE PROC					CO5	Interpret the functions of data converters and memories in digital electronic systems.
SY  OBJECT ORIENTED PROGRAMMING USING C++ 313304  OS Develop C++ programs to perform file operations.  OS Develop Program in Store the C++ performance of C++ performed and the C++ performance of C++ performed and the C++ performance of C++ performed and the C++ performed and					CO1	Write C++ programs using classes and objects.
SY  OBJICTO DRINTED PROCRAMMING USING 6++  ANALOG ELECTRONICS  313304  ANALOG ELECTRONICS  313304  ANALOG ELECTRONICS  313324  ANALOG ELECTRONICS  313324  ANALOG ELECTRONICS  313324  ANALOG ELECTRONICS  313324  313324  ANALOG ELECTRONICS  313224  ANALOG ELECTRONICS  313324  ANALOG ELECTRONICS  313324  ANALOG ELECTRONICS  313324  ANALOG ELECTRONICS  313324  ANALOG ELECTRONICS  313224  ANALOG ELECTRONICS  ANALOG ELECTRONICS  ANALOG ELECTRONICS  ANA					CO2	Develop C++ programs using constructors.
USING C++  313304  CC) Develop C++ programs to perform tile operations.  COI Ust stansitor as a Prover Amplifier  COI Ust stansitor as a Prover demonstration of polymor for different applications.  ANALOG ELECTRONICS  318344  COI Ust stand different waveform generator circuits.  COI Maintain active filters used in various electronic circuits.  COI Ust salient features and characteristics of the constitution of India.  COI Ust salient features and characteristics of the constitution of India.  COI Follow fundamental rights and dutles as respect titre of the country.  COI Follow procedure to east and dutles as respect titre of the country.  COI Follow procedure to east with easing the circuits.  SY  ENVIRONMENTAL EDUCATION AND SUSTAINABILITY  SY A Consumer Electronic System  SY A Consumer Electronic System  SY A Consumer Electronic System  SY A MICROPROCESSOR AND APPLICATION  314327  SY A Analog and Digital Communication  314328  SY A Analog and Digital Communication  314329  SY A JAVA PROGRAMMING  314317  SY A JAVA PROGRAMMING  314317  COI Develop piwa program to perform tile operation problems.  COI Develop piwa program to implement the extension and pipelinese country.  COI Develop piwa program in ingelline communication and pipelinese country.  COI Develop program in ingelline acceptance in the pipeline pipeline and pipelinese.  COI Develop program in ingelline acceptance in constitution.  Sy A Analog and Digital Communication  314329  SY A JAVA PROGRAMMING  SY A JAVA PROGRAMMING  SY A JAVA PROGRAMMING  COI Develop piwa program for implement time that pipeline program in implement time that surface in surface in the pipeline program in implement time that surface in surface in the pipeline programming on to implement the entire programming in piwa.  COI Develop piwa program for implement time transition and pipelinese.  COI Develop piwa program for implement time transition system  COI Develop piwa program for implement time transition and pipelinese.  COI Develop piwa program for implement multithreasing and		3			CO3	Implement Inheritance in C++.
USING CH  313304  COS  Develop C++ programs to perform life operations.  COI  Ust rainstairs as a Power Ampiller  CO2  Construct various configurations of Do Amp for different applications  ANALOG ELECTRONICS  313344  ANALOG ELECTRONICS  313344  COS  Maintain active filters used in various electronic circuits.  COS  Maintain active filters used in various electronic circuits.  COS  Septic filters and divides a responsibility of india.  COS  COS  Septic filters and divides a responsibility of india.  COS  Follow procedure to east webure yave results electron of the contriv.  COS  Analyze major constitutional amendments in the constitution.  COS  Analyze major constitutional amendments in the constitution.  COS  ENVIRONMENTAL EDUCATION AND  SUSTAINABILITY  4  SY  A  CORSUMER Electronic System  SUSTAINABILITY  A  CORSUMER Electronic System  314301  COS  CORSUMER SEPTIC ACTION AND  SUSTAINABILITY  A  CORSUMER Electronic System  314327  ANALOG Electronic System  A  MICROPROCESSOR AND APPLICATION  314327  A  Analog and Digital Communication  314328  COS  Maintain trage type of audio system  COS  Maintain various consumer electronic appliences  COS  Maintain various consumer deteronic appliences  COS  Maintain various consumer appliences  COS  Maintain various consumer appliences  COS  Maintain various consumer appliences  COS  Maintain various configuration system  COS  Maintain various consumer appliences  Self-with elevant measures and integrate  Analog and Digital Communication  314329  SPY  4  Analog and Digital Communication  314329  SPY  4  Analog and Digital Communication  314329  COS  Select relevant multiplies and multiplies access techniques in various connumication system  COS  Maintain intercontroller on properaming  COS  Maintain intercontroller on properaming  COS  Maintain intercontroller on properaming  COS  Maintain intercontroli	SY		OBJECT ORIENTED PROGRAMMING		CO4	Implement Polymorphism in C++.
SY  ANALOG ELECTRONICS  313324  CO2  CONTEXT various configurations of Op-Amp for different applications  CO3  Assistant active filters usedering generator circuit  CO4  Maintain active filters used in various electronic circuits.  CO5  Use specific analogic to develop various applications.  CO3  Assistant active filters used in various detections circuits.  CO5  Use specific analogic to develop various applications.  CO5  Use specific analogic to develop various applications.  CO5  Use specific analogic to develop various applications.  CO6  Follow fundamental rights and duther as responsible circuits on the country.  CO3  Analyse major constitutional amendments in constitution.  CO4  Follow procedure to cast vote using voteraid.  CO5  Develop Analog circuits and text the output using EDA tools.  CO5  Develop Analog circuits and text the output using EDA tools.  CO6  Develop various miscellaneous circuits using EDA tools.  CO6  Develop various miscellaneous circuits using EDA tools.  CO6  Develop various miscellaneous circuits using EDA tools.  CO7  Develop various miscellaneous circuits using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO8  Analyse Defia Loyout for the given input using EDA tools.  CO9  Analyse Defia Loyout for the given input using EDA tools.  CO9  Develop Profess on th			USING C++	313304	CO5	
SY  ANALOG ELECTRONICS  313324  CO2  Analog and Digital Communication  SY  A Python programming and Data Structure  SY  A JAVA PROGRAMMING  314317  CO2  CO2  Co2  Co2  Co2  Co2  Co2  Co2			OSHNO CTP		CO1	Use transistor as a Power Amplifier
SY  ANALOG ELECTRONICS  313324  CO3 Maintain active filters used in various electronic circuits.  CO4 Maintain active filters used in various electronic circuits.  CO5 Use specific analog IC to develop various applications.  CO2 Follow fundamental rights and duties as responsible citzen of the country.  Analog and CO2 Follow fundamental rights and duties as responsible citzen of the country.  Analog and Digital Communication  SUSTAINABILITY  4 Consumer Electronic System  SY  4 MICROPROCESSOR AND APPLICATION  SY  4 MICROPROCESSOR AND APPLICATION  314327  SY  4 A Analog and Digital Communication  314328  SY  4 Python programming and Data Structure  SY  4 Python programming and Data Structure  SY  4 JAVA PROGRAMMING  314337  SY  4 JAVA PROGRAMMING  314337  OCA Maintain material responsibility and superparating in page material responsibility complements and sust purpose  CO3 Maintain material responsibility and material responsibility and complements and sust purpose  CO3 Maintain material responsibility and multiple access techniques in specifical to complement to explain the given type of audio system  CO3 Industry the relevant resolution application on specifical positions and sust proposed profiled process to the development of a bit microcontroller  CO4 Maintain various office automation appliences  CO5 Maintain various office automation appliences  CO6 Maintain various office automation appliences  CO7 Maintain various office automation appliences  CO8 Maintain various office automation appliences  CO9 Maintain various office automation appliences  CO9 Maint						
SY  SY  ESSENCE OF INDIAN CONSTITUTION  313002  SY  BESSENCE OF INDIAN CONSTITUTION  313002  SY  SY  BESSENCE OF INDIAN CONSTITUTION  313002  SY  BEDA Tools  313013  EDA Tools  313013  EDA Tools  313013  BEDA Tools  313013  EDA Tools  313013  BEDA Tools  313013  ENVIRONMENTAL EDUCATION AND  SUSTAINABILITY  SY  BENVIRONMENTAL EDUCATION AND  SUSTAINABILITY  SY  A  Consumer Electronic System  314301  SY  A  Consumer Electronic System  314327  SY  A  MICROPROCESSOR AND APPLICATION  314327  SY  A  Analog and Digital Communication  314328  SY  A  Python programming and Data Structure  SY  A  Python programming and Data Structure  SY  A  LAVA PROGRAMMING  314317  SY  A  LAVA PROGRAMMING  314317  SY  A  LAVA PROGRAMMING  314317  SY  A  BESSENCE OF INDIAN CONSTITUTION  314317  COA  Malmain active filters used in avarious electronic inclusion.  COA  Lot be levelop payma main glother input using EDA Tools.  COA  Analyze migral circuits for the given input using EDA tools.  COA  COA  COA  COA  COA  COA  COA  CO		3	ANALOG FLECTRONICS	313324		
COS Live specific analog IC to develop various applications.  COS Live specific analog IC to develop various applications.  COS Live specific analog IC to develop various applications.  COS Live specific analog IC to develop various applications.  COS Live specific analog IC to develop various applications.  COS Live specific analog IC to develop various applications.  COS Live Specific analog IC to develop various applications.  COS Live Specific analog IC to develop various and state the constitution.  COS Live Specific analog IC to develop various and state the constitution.  COS Live ICA Tools and duli said state the constitution.  COS Live EDA Tools to the using varieval.  COS Live EDA Tools to minutal the simplic Using EDA tools.  COS Live EDA Tools to surplicate the custour using EDA tools.  COS Live EDA Tools to surplicate the custour using EDA tools.  COS Live EDA Tools to develop various inscellances or crucial using EDA tools.  COS Live EDA Tools to develop various transfer the custour using EDA tools.  COS Live EDA Tools to develop various transfer the custour using EDA tools.  COS Live EDA Tools to develop various transfer the custour using EDA tools.  COS Live EDA Tools to develop various transfer the custour using EDA tools.  COS Live EDA Tools to develop various transfer the transfer to the custour using EDA tools.  COS Live EDA Tools to develop various transfer the custour using EDA tools.  COS Live EDA Tools to develop various transfer the custour using EDA tools.  COS Live EDA Tools to develop various transfer the transfer the custour using EDA tools.  COS Live EDA Tools to develop various transfer the transfer the custour using EDA tools.  COS Live EDA Tools to develop various transfer the custour using EDA tools.  COS Live EDA Tools to develop various transfer the custour using EDA tools.  COS Live EDA Tools to develop various transfer the custour using EDA tools.  COS Live EDA Tools to develop various transfer the custour using EDA tools.  COS Live EDA Tools to develop various using EDA to	SY		ANALOG ELECTRONICS	313324		
SY  SY  ESSENCE OF INDIAN CONSTITUTION  313002  COL  COL  COL  Follow fundamental rights and dubtes as responsible citizen of the country.  COL  Analyze major constitutional amendments in the constitution.  COL  COL  Follow procedure to cast vive using sets as responsible citizen of the country.  COL  Analyze bigital circuits.  COL  COL  Analyze bigital circuits for the given input using EDA Tools.  Analyze bigital circuits for the given input using EDA Tools.  Analyze bigital circuits for the given input using EDA Tools.  Analyze bigital circuits for the given input using EDA Tools.  Analyze bigital circuits for the given electronic circuits  COL  COL  COL  COL  COL  COL  COL  CO	"					
SY  SY  ENVIRONMENTAL EDUCATION AND SUSTAINABILITY  A  Consumer Electronic System  SY  A  MICROPROCESSOR AND APPLICATION  314327  SY  A  Python programming and Data Structure  SY  A  Python programming and Data Structure  SY  A  Python programming and Data Structure  SY  A  LESSENCE OF INDIAN CONSTITUTION  314321  CO2  CO3  Analyze major consulturional amendments in the constitution.  CO4  CO4  CO4  CO5  CO5  CO5  CO5  CO5	-					
SY  SY  EDA Tools  EDA Tools  EDA Tools  EDA Tools  SUSTAINABILITY  ENVIRONMENTAL EDUCATION AND SUSTAINABILITY  SY  A  Consumer Electronic System  SY  A  Consumer Electronic System  SY  A  ENVIROPROCESSOR AND APPLICATION  314327  SY  A  Python programming and Data Structure  SY  A  Python programming and Data Structure  SY  A  JAVA PROGRAMMING  SY  A  JAVA PROGRAMMING  SY  A  JAVA PROGRAMMING  314317  Con  Con  Con  Con  Con  Con  Con  Co						
SY  A  BDA Tools  BLA		3	ESSENCE OF INDIAN CONSTITUTION	313002		
SY 4 Consumer Electronic System 314327  SY 4 Consumer Electronic System 314327  SY 4 A Analog and Digital Communication  SY 4 Analog and Digital Communication  SY 4 Python programming and Data Structure  SY 4 Python programming and Data Structure  SY 4 JAVA PROGRAMMING 314317  CO 1 Use EDA Tools to simulate the simple circuits.  CO 2 Develop Analog and Digital Components.  CO 2 Develop parious miscellaneous circuits using EDA Tools.  COC 2 Develop parious miscellaneous circuits using EDA tools.  COC 3 Develop parious miscellaneous circuits using EDA tools.  COC 3 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous circuits using EDA tools.  COC 4 Develop parious miscellaneous environmental issues in specified locality.  COC 5 Develop parious miscellaneous environmental issues in specified locality.  COC 6 Develop parious miscellaneous environmental issues in specified locality.  COC 6 Develop parious miscellaneous interious floating the environmental pario	61/					
SY 4 Consumer Electronic System 314327  SY 4 Consumer Electronic System 314327  SY 4 A MICROPROCESSOR AND APPLICATION 314328  SY 4 A Analog and Digital Communication SY 4 A Analog and Digital Communication System SY 4 Python programming and Data Structure  SY 4 JAVA PROGRAMMING 314317  CO 2 Develop pragram to might mere through save program to might membrane through save program in good in a program to might membrane through save program in good in an end and structures  CO 3 Develop program to might membrane through save program in social mach application system  CO 4 Develop program to might membrane through save program to might membrane the might membrane through save program to might membrane the save program in social mach submit might membrane the might	SY				-	
SY  ENVIRONMENTAL EDUCATION AND SUSTAINABILITY  The provided in the provided i					-	
SY 4 Python programming and Data Structure  SY 4 JAVA PROGRAMMING  SUSTAIMABILITY  CO2 Develop param sing tunnel to the program t						
SY 4 Python programming and Data Structure  SY 4 Python programming and Data Structure  SY 4 Python programming and Data Structure  SY 4 JAVA PROGRAMMING  SUSTAIMABILITY  SUSFAINABILITY  SUSFAINABILITY  SUSFAINABILITY  314301  CO5 Use EDA tools to develop PCB Layout for the given electronic circuits  tentrify the relevant Environmental issues in specified locality.  CO2 Provide the green solution to the relevant environmental prolibems.  CO3 Conduct SWOT analysis of biodiversity hotspot  CO4 Apply the relevant the environmental pollution.  CO5 Implement the environmental pollution.  CO6 Implement the environmental pollution under the relevant legal framework.  CO7 Test different type of audio system  CO7 Test different type of audio system  CO8 Test different type of audio system  CO9 Develop program using timers and interrupt  CO9 Develop program to implement basic building block of python programming  CO9 Develop pava program us		3	EDA Tools	313013	CO3	Analyze Digital circuits for the given input using EDA tools
SY 4 ENVIRONMENTAL EDUCATION AND SUSTAINABILITY 2 SY 4 ENVIRONMENTAL EDUCATION AND SUSTAINABILITY 314301 CO3 Conduct SWOT analysis of biodiversity hotspot. CO4 Apply the relevant Environmental issues in specified locality.  SY 4 Consumer Electronic System 314327 CO3 Conduct SWOT analysis of biodiversity hotspot. CO4 Apply the relevant multiple access techniques in various communication appliences  SY 4 Consumer Electronic System 314327 CO3 Troubleshoot various consumer electronics appliences  SY 4 MICROPROCESSOR AND APPLICATION 314328 CO3 Troubleshoot various consumer electronics appliences  SY 4 Analog and Digital Communication 314328 CO3 Evelop program in 8051 in assembly language for the given operation  SY 4 Python programming and Data Structure 314012 CO3 Evelop program in Maintain communication system  SY 4 Python programming and Data Structure 314012 CO3 Evelop program to implement bease application techniques  SY 4 JAVA PROGRAMMING 314317 CO4 Develop program to implement bases, due to implement stacks, queue, linked list using Python programming implement unper data structures implement multibreading and exception handling.  SY 4 JAVA PROGRAMMING 314317 CO4 Develop pay program for implementing code reusability concept.  CO5 Implements network programming in java.						Develop various miscellaneous circuits using EDA tools.
ENVIRONMENTAL EDUCATION AND SUSTAINABILITY  4 SY 4 SUSTAINABILITY  5 Y 4 Consumer Electronic System  5 Y 4 Consumer Electronic System  5 Y 4 Consumer Electronic System  5 Y 4 MICROPROCESSOR AND APPLICATION  5 Y 4 MICROPROCESSOR AND APPLICATION  5 Y 4 Analog and Digital Communication  5 Y 4 Analog and Digital Communication  5 Y 4 Python programming and Data Structure  5 Y 4 JAVA PROGRAMMING  5 Y 5 Y 4 JAVA PROGRAMMING  5 Y 4 JAVA PROGRAMMING  5 Y 5 Y 4 JAVA PROGRAMMING  5 Y 5 JAVA PROGRAMMING  5 Y 6 JAVA PROGRAMMING  5 Y 7 JAVA P	SY	_	<u> </u>		CO5	
SY 4 Consumer Electronic System 314321  SY 4 Consumer Electronic System 314327  SY 4 Consumer Electronic System 314327  SY 4 MICROPROCESSOR AND APPLICATION 314328  SY 4 Analog and Digital Communication 314329  SY 4 Python programming and Data Structure 314012  SY 4 JAVA PROGRAMMING 314317  SY 5 SY 4 JAVA PROGRAMMING 314317  SY 5 SI 5 SUBJECT AND APPLICATION 314328  SY 4 JAVA PROGRAMMING 314317  SY 5 SUBJECT SEAS AND APPLICATION 314329  SY 4 JAVA PROGRAMMING 314317  SY 5 SUBJECT SEAS AND APPLICATION 314329  SY 6 SUBJECT SEAS AND APPLICATION 314329  SY 6 SUBJECT SEAS AND APPLICATION 314329  SY 7 SUBJECT SEAS AND APPLICATION 314329  SY 8 SUBJECT SEAS AND APPLICATION 314329  SY 9 SUBJECT SEAS AND APPLICATION 314329  SY 9 SUBJE			ENVIRONMENTAL EDUCATION AND		CO1	
SY 4 Consumer Electronic System 314301  SY 4 Consumer Electronic System 314327  SY 4 Consumer Electronic System 314327  SY 4 Consumer Electronic System 314328  SY 4 Consumer Electronic System 314329  SY 4 Consumer Electronic System 314328  SY 4 MICROPROCESSOR AND APPLICATION 314328  SY 4 MICROPROCESSOR AND APPLICATION 314328  SY 4 Analog and Digital Communication 314329  SY 4 Analog and Digital Communication 314329  SY 4 Python programming and Data Structure 314012  SY 4 JAVA PROGRAMMING 314317  SY 5 JAVA PROGRAMMING 314317  SY 6 JAVA PROGRAMMING 314317  SY 7 JAVA PROGRAMMING 314317  SY 8 JAVA PROGR			SUSTAINABILITY			·
SY 4 Consumer Electronic System 314327  SY 4 MICROPROCESSOR AND APPLICATION 314328  SY 4 MICROPROCESSOR AND APPLICATION 314328  SY 4 Analog and Digital Communication 314329  SY 4 Python programming and Data Structure  SY 4 Python programming and Data Structure  SY 4 Python programming and Data Structure  SY 4 IJAVA PROGRAMMING 314317  SY 4 JAVA PROGRAMMING 314317  SY 4 JAVA PROGRAMMING 314317  SY 4 Develop program is an insurance and placement in planement in polyment in general placement in					<b>I</b>	
SY 4 Consumer Electronic System 314327  SY 4 MICROPROCESSOR AND APPLICATION 314328  SY 4 MICROPROCESSOR AND APPLICATION 314328  SY 4 Analog and Digital Communication 314329  SY 4 Python programming and Data Structure 314012  SY 4 Python programming and Data Structure 314012  SY 4 JAVA PROGRAMMING 314317  SY 4 JAVA PROGRAMMING 314317  COS Implement the environmental policies under the relevant legal framework.  CO1 Maintain the given type of audio system CO2 Test different type of audio system CO3 Industrian type of audio system CO4 Use various smart appliances CO5 Maintain various office automation appliences CO5 Maintain microcontroller CO6 Maintain microcontroller based application CO7 Maintain microcontroller based application CO8 Maintain microcontroller based application CO9 Maintain AM and FM communication system CO9 Maintain AM and FM communication system CO9 Maintain was program to implement basic building block of python CO9 Perform operations on python data structures CO9 Evaluate algorithmic complexity of different searching and sorting algorithm CO9 Develop java program using classes and objects. CO9 Develop java program for implementing code reusability concept. CO4 Develop pava program for implementing code reusability concept. CO4 Develop pava program for implementing event handling using window-based application components. CO9 Implement Linar betwork programming in java.	1 . 1	4		314301		
SY 4 Consumer Electronic System 314327  CO1 Maintain the given type of audio system CO2 Test different type of audio system CO3 Troubleshoot various consumer electronics appliences CO4 Use various smart appliances CO5 Maintain various office automation appliences CO5 Maintain various office automation appliences CO6 Maintain various office automation appliences CO7 Develop program in sing S1 in assembly language for the given operation CO8 Develop program using timers and interrupt CO4 Interface the memory and JO peripheral to 8051 microcontroller CO5 Maintain incrocontroller based application CO6 Maintain AM and FM communication system CO2 Maintain AM and FM communication system CO3 Maintain incrocontroller based application CO4 Maintain incrocontroller based application CO5 Select relevant multiplex and multiple access techniques in various communication appliences CO6 Weelop python program to implement basic buliding block of python CO7 Select relevant multiplex and multiple access techniques in various communication appliences CO8 Co9 Perform operations on python data structure CO9 Evaluate algorithmic complexity of different searching and sorting algorithm in complement may be searched and objects. CO9 Develop java program using classes and objects. CO9 Develop java program to implement multithreading and exception handling. CO9 Develop java program for implementing event handling using window-based application components. CO9 Implements network programming in java.	SY					
SY 4 Consumer Electronic System 314327  CO2 Test different type of audio system CO3 Troubleshoot various consumer electronics appliences CO4 Use various smart appliances CO5 Maintain various office automation appliences CO5 Maintain various office automation appliences CO6 Develop program in 8051in assembly language for the given operation CO5 Maintain various office automation appliences CO6 Develop program using timers and interrupt CO5 Maintain increocontroller based application CO6 Maintain AM and I/O peripheral to 8051 microcontroller CO7 Maintain AM and FM communication system CO8 Use various pulse modulation techniques CO9 Maintain Communication system based on digital modulation techniques CO9 Develop prython program to implement basic building block of python CO9 Perform operations on python data structures CO9 Develop paython data structures CO9 Develop paya program to implement multithreading and sorting algorithm CO9 Develop paya program to implement multithreading and exception handling. CO9 Develop paya program to implement multithreading and exception handling. CO9 Develop paya program to implement multithreading and exception handling. CO9 Develop paya program to implement multithreading and exception handling. CO9 Develop paya program to implement multithreading and exception handling. CO					- 003	implement the chironimental policies under the relevant legal namework.
SY 4 Consumer Electronic System 314327  CO2 Test different type of audio system CO3 Troubleshoot various consumer electronics appliences CO4 Use various smart appliances CO5 Maintain various office automation appliences CO5 Maintain various office automation appliences CO6 Develop program in 8051in assembly language for the given operation CO5 Maintain various office automation appliences CO6 Develop program using timers and interrupt CO5 Maintain increocontroller based application CO6 Maintain AM and I/O peripheral to 8051 microcontroller CO7 Maintain AM and FM communication system CO8 Use various pulse modulation techniques CO9 Maintain Communication system based on digital modulation techniques CO9 Develop prython program to implement basic building block of python CO9 Perform operations on python data structures CO9 Develop paython data structures CO9 Develop paya program to implement multithreading and sorting algorithm CO9 Develop paya program to implement multithreading and exception handling. CO9 Develop paya program to implement multithreading and exception handling. CO9 Develop paya program to implement multithreading and exception handling. CO9 Develop paya program to implement multithreading and exception handling. CO9 Develop paya program to implement multithreading and exception handling. CO					CO1	A A CLASSIC ALCOHOLOGO A CONTROL AND A CONTR
SY 4 Consumer Electronic System 314327						
SY 4 MICROPROCESSOR AND APPLICATION 314328 CO3 Develop program in 8051in assembly language for the given operation   CO4 Interpret architecture of 8-bit microcontroller   CO5 Develop program in 8051in assembly language for the given operation   CO5 Develop program in 8051in assembly language for the given operation   CO5 Develop program in 8051in assembly language for the given operation   CO6 Develop program in 8051in assembly language for the given operation   CO7 Develop program in 8051in assembly language for the given operation   CO8 Develop program using timers and interrupt   CO9 Develop using microcontroller   CO9 Develop using microcontroller   CO9 Develop using microcontroller   CO9 Develop program to implement basic building block of python   CO9 Develop interrupt   CO			Consumer Electronic System	314327		
SY 4 MICROPROCESSOR AND APPLICATION 314328  SY 4 MICROPROCESSOR AND APPLICATION 314328  SY 4 Analog and Digital Communication 314329  SY 4 Python programming and Data Structure  SY 4 JAVA PROGRAMMING 314317  SY 4 JAVA PROGRAMMING 314317  CC05 Maintain various office automation appliences (CO1 Interpret architecture of 8-bit microcontroller interpret architecture of 8-bit microcontroller (CO2 Develop program using timers and interrupt interface the memory and I/O peripheral to 8051 microcontroller (CO5 Maintain microcontroller based application (CO1 Analyze the basics of communication system (CO2 Maintain AM and FM communication system (CO3 Use various pulse modulation techniques (CO3 Use various pulse modulation techniques (CO3 Develop python program to implement basic buliding block of python (CO2 Perform operations on python data structures (CO3 Create modules and packages for given purpose (CO4 Evaluate algorithmic complexity of different searching and sorting algorithm (CO3 Develop pava program to implement Linear data structures like stacks, queue, linked list using Python programming (CO3 Develop pava program to implement multithreading and exception handling.  SY 4 JAVA PROGRAMMING 314317  CC04 Evaluate algorithmic complexity of different searching and sorting algorithm (CO3 Develop pava program to implement multithreading and exception handling.  CC04 Develop java program for implementing code reusability concept.  CC05 Implements network programming in java.	SY	4			<b>I</b>	
SY 4 MICROPROCESSOR AND APPLICATION 314328    CO1						Use various smart appliances
SY 4 MICROPROCESSOR AND APPLICATION 314328    CO2					CO5	Maintain various office automation appliences
SY 4 MICROPROCESSOR AND APPLICATION 314328 CO3 Develop program using timers and interrupt CC4 Interface the memory and I/O peripheral to 8051 microcontroller Maintain microcontroller based application CO5 Maintain microcontroller based application CC04 Maintain microcontroller based application CC05 Maintain AM and FM communication system CC02 Maintain AM and FM communication system CC03 Use various pulse modulation techniques CC04 Maintain communication system based on digital modulation techniques CC04 Maintain communication system based on digital modulation techniques CC05 Select relevant multiplex and multiple access techniques in various communication appliences CC05 Select relevant multiplex and multiple access techniques in various communication appliences CC05 CC05 Perform operations on python data structures CC06 CC06 Evaluate algorithmic complexity of different searching and sorting algorithmic CC06 Implement Linear data structures like stacks, queue, linked list using Python programming CC07 Develop java program using classes and objects. CC08 Develop java program to implement multithreading and exception handling. CC04 Develop java program for implement multithreading and exception handling. CC04 Develop java program for implementing event handling using window-based application components. CC05 Implements network programming in java.		4	MICROPROCESSOR AND APPLICATION	314328	CO1	Interpret architecture of 8-bit microcontroller
SY 4 Analog and Digital Communication 314329  SY 4 Python programming and Data Structure  SY 4 JAVA PROGRAMMING  SY 4 JAVA PROGRAMMING  CO4 Interface the memory and I/O peripheral to 8051 microcontroller  CO5 Maintain microcontroller based application  CO1 Analyze the basics of communication system  CO2 Maintain AM and FM communication system  CO3 Use various pulse modulation techniques  CO4 Maintain communication system based on digital modulation techniques  CO5 Select relevant multiplex and multiple access techniques in various communication appliences  CO6 Develop python program to implement basic buliding block of python  CO7 Perform operations on python data structures  CO8 Create modules and packages for given purpose  CO9 Evaluate algorithmic complexity of different searching and sorting algorithm  CO9 Implement Linear data structures like stacks, queue, linked list using Python programming  CO9 Develop java program using classes and objects.  CO9 Develop java program to implementing code reusability concept.  CO9 Develop param to implement multithreading and exception handling.  CO9 Develop java program for implementing event handling using window-based application components.  CO9 Implements network programming in java.					CO2	Develop program in 8051in assembly language for the given operation
SY 4 Analog and Digital Communication  Analog and Digital Communication  314329  Analog and Pictal Code  Analyze the basics of communication system  Analog and FM communication system  Cod Maintain microcontroller based application system  Cod Maintain Ma of FM communication system  Cod Maintain microcontroller based application system  Cod Maintain Ma of FM communication system  Cod Develop python program to implement based on digital modulation techniques  Cod Develop python program to implementing event handling using window-based application components.  Cod Develop java program for implementing event handling using window-based application components.  Cod Implements network programming in java.	SY				CO3	Develop program using timers and interrupt
SY 4 Analog and Digital Communication  314329  5 Select relevant multiplex and multiple access techniques in various communication appliences  CO3 Develop python program to implement basic buliding block of python  CO4 Perform operations on python data structures  CO5 Create modules and packages for given purpose  CO6 Evaluate algorithmic complexity of different searching and sorting algorithm  CO7 Implement Linear data structures like stacks, queue, linked list using Python programming  CO8 Develop java program using classes and objects.  CO9 Develop porgram to implementing code reusability concept.  CO9 Develop java program for implement multithreading and exception handling.  CO9 Develop java program for implementing event handling using window-based application components.  CO9 Implements network programming in java.					CO4	Interface the memory and I/O peripheral to 8051 microcontroller
SY 4 Analog and Digital Communication 314329  CO1 Analyze the basics of communication system CO2 Maintain AM and FM communication system CO3 Use various pulse modulation techniques CO4 Maintain communication system based on digital modulation techniques CO5 Select relevant multiplex and multiple access techniques in various communication appliences  SY 4 Python programming and Data Structure  SY 4 Python programming and Data Structure  SY 4 JAVA PROGRAMMING  314317  CO1 Develop python program to implement basic building block of python CO2 Perform operations on python data structures CO3 Create modules and packages for given purpose CO4 Evaluate algorithmic complexity of different searching and sorting algorithm CO5 Implement Linear data structures like stacks, queue, linked list using Python programming CO1 Develop java program using classes and objects. CO2 Develop java program for implementing code reusability concept. CO3 Develop program to implement multithreading and exception handling. CO4 Develop java program for implementing event handling using window-based application components. CO5 Implements network programming in java.					CO5	
SY 4 Analog and Digital Communication  314329  CO2 Maintain AM and FM communication system Use various pulse modulation techniques CO3 Use various pulse modulation techniques CO4 Maintain communication system based on digital modulation techniques CO5 Select relevant multiplex and multiple access techniques in various communication appliences  CO3 Develop python program to implement basic buliding block of python CO2 Perform operations on python data structures CO3 Create modules and packages for given purpose CO4 Evaluate algorithmic complexity of different searching and sorting algorithm CO5 Implement Linear data structures like stacks, queue, linked list using Python programming CO1 Develop java program using classes and objects. CO2 Develop java program for implementing code reusability concept. CO3 Develop java program to implement multithreading and exception handling. CO4 Develop java program for implementing event handling using window-based application components. CO5 Implements network programming in java.		4	Analog and Digital Communication	314329	CO1	
SY 4 Python programming and Data Structure  Python programming and Data Structure  SY 4 JAVA PROGRAMMING  Analog and Digital Communication  314329  CO3 Use various pulse modulation techniques  CO4 Maintain communication system based on digital modulation techniques  CO5 Select relevant multiplex and multiple access techniques in various communication appliences  CO1 Develop python program to implement basic buliding block of python  CO2 Perform operations on python data structures  CO3 Create modules and packages for given purpose  CO4 Evaluate algorithmic complexity of different searching and sorting algorithm  CO5 Implement Linear data structures like stacks, queue, linked list using Python programming  CO1 Develop java program using classes and objects.  CO2 Develop java program for implementing code reusability concept.  CO3 Develop program to implement multithreading and exception handling.  CO4 Develop java program for implementing event handling using window-based application components.  CO5 Implements network programming in java.						
SY 4 Python programming and Data Structure  Python programming and Data Structure  SY 4 JAVA PROGRAMMING  314317  CO4 Maintain communication system based on digital modulation techniques  CO5 Select relevant multiplex and multiple access techniques in various communication appliences  CO6 Develop python program to implement basic buliding block of python  CO7 Perform operations on python data structures  CO8 Create modules and packages for given purpose  CO9 Evaluate algorithmic complexity of different searching and sorting algorithm  CO9 Implement Linear data structures like stacks, queue, linked list using Python programming  CO9 Develop java program using classes and objects.  CO9 Develop java program for implementing code reusability concept.  CO9 Develop java program to implement multithreading and exception handling.  CO9 Develop java program for implementing event handling using window-based application components.  CO9 Implements network programming in java.						
CO5 Select relevant multiple access techniques in various communication appliences  CO1 Develop python program to implement basic buliding block of python CO2 Perform operations on python data structures CO3 Create modules and packages for given purpose CO4 Evaluate algorithmic complexity of different searching and sorting algorithm CO5 Implement Linear data structures like stacks, queue, linked list using Python programming CO1 Develop java program using classes and objects. CO2 Develop java program for implementing code reusability concept. CO3 Develop program to implement multithreading and exception handling. CO4 Develop java program for implementing event handling using window-based application components. CO5 Implements network programming in java.	SY					
SY 4 Python programming and Data Structure 314012 CO1 Develop python program to implement basic building block of python CO2 Perform operations on python data structures CO3 Create modules and packages for given purpose CO4 Evaluate algorithmic complexity of different searching and sorting algorithm Implement Linear data structures like stacks, queue, linked list using Python programming CO1 Develop java program using classes and objects. CO2 Develop java program for implementing code reusability concept. CO3 Develop program to implement multithreading and exception handling. CO4 Develop java program for implementing event handling using window-based application components. CO5 Implements network programming in java.						
SY 4 Python programming and Data Structure 314012 CO2 Perform operations on python data structures CO3 Create modules and packages for given purpose CO4 Evaluate algorithmic complexity of different searching and sorting algorithm CO5 Implement Linear data structures like stacks, queue, linked list using Python programming CO1 Develop java program using classes and objects. CO2 Develop java program for implementing code reusability concept. CO3 Develop program to implement multithreading and exception handling. CO4 Develop java program for implementing event handling using window-based application components. CO5 Implements network programming in java.					CO5	Select relevant multiplex and multiple access techniques in various communication appliences
SY 4 Python programming and Data Structure 314012 CO2 Perform operations on python data structures CO3 Create modules and packages for given purpose CO4 Evaluate algorithmic complexity of different searching and sorting algorithm CO5 Implement Linear data structures like stacks, queue, linked list using Python programming CO1 Develop java program using classes and objects. CO2 Develop java program for implementing code reusability concept. CO3 Develop program to implement multithreading and exception handling. CO4 Develop java program for implementing event handling using window-based application components. CO5 Implements network programming in java.		4	Python programming and Data Structure		CO1	Develop withou program to implement basis building block of withou
SY 4 Python programming and Data Structure  CO3 Create modules and packages for given purpose  CO4 Evaluate algorithmic complexity of different searching and sorting algorithm  CO5 Implement Linear data structures like stacks, queue, linked list using Python programming  CO1 Develop java program using classes and objects.  CO2 Develop java program for implementing code reusability concept.  CO3 Develop program to implement multithreading and exception handling.  CO4 Develop java program for implementing event handling using window-based application components.  CO5 Implements network programming in java.						
CO4 Evaluate algorithmic complexity of different searching and sorting algorithm  CO5 Implement Linear data structures like stacks, queue, linked list using Python programming  CO1 Develop java program using classes and objects.  CO2 Develop java program for implementing code reusability concept.  CO3 Develop program to implement multithreading and exception handling.  CO4 Develop java program for implementing event handling using window-based application components.  CO5 Implements network programming in java.	l cv			314012		
CO5 Implement Linear data structures like stacks, queue, linked list using Python programming  CO1 Develop java program using classes and objects. CO2 Develop java program for implementing code reusability concept. CO3 Develop program to implement multithreading and exception handling.  CO4 Develop java program for implementing event handling using window-based application components.  CO5 Implements network programming in java.	31					
SY 4 JAVA PROGRAMMING 314317  CO1 Develop java program using classes and objects. CO2 Develop java program for implementing code reusability concept. CO3 Develop program to implement multithreading and exception handling. CO4 Develop java program for implementing event handling using window-based application components. CO5 Implements network programming in java.						
SY 4 JAVA PROGRAMMING 314317 CO2 Develop java program for implementing code reusability concept. CO3 Develop program to implement multithreading and exception handling. CO4 Develop java program for implementing event handling using window-based application components. CO5 Implements network programming in java.	$\vdash$					
SY 4 JAVA PROGRAMMING 314317 CO3 Develop program to implement multithreading and exception handling.  CO4 Develop java program for implementing event handling using window-based application components.  CO5 Implements network programming in java.		4	JAVA PROGRAMMING			
SY 4 JAVA PROGRAMMING 314317 CO4 Develop java program for implementing event handling using window-based application components.  CO5 Implements network programming in java.					-	
CO4 Develop java program for implementing event handling using window-based application components.  CO5 Implements network programming in java.				314317	CO3	Develop program to implement multithreading and exception handling.
COS Implements network programming in java.	SY				COA	Develop java program for implementing event handling using window based application components
						Develop java program for implementing event handling using window-based application components.
CO6 Develop java program for managing database					CO5	Implements network programming in java.
			<u> </u>		CO6	Develop java program for managing database
					-	
	$\vdash$				+	1
					1	
					1	
					1	
					1	
1 1 1						