



LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S

PRIYADARSHINI COLLEGE OF ENGINEERING

(Recognised by A.I.C.T.E. New Delhi & Govt. of Maharashtra Affiliated to R.T.M. Nagpur University)

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AICTE ID No. 5435581; DTE CODE No. 4123; UNIVERSITY CODE No. 278

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AN AUTONOMOUS INSTITUTE

CURRICULUM

UNDER GRADUATE PROGRAMME

B.TECH. COMPUTER SCIENCE AND ENGINEERING

WITH EFFECT FROM THE ACADEMIC YEAR 2024-2025.

LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA

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SCHEME OF EXAMINATION
B. TECH. COMPUTER SCIENCE AND ENGINEERING

Semester wise Credit distribution structure for Four Year B.Tech Program

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	08	08	--	--	--	--	--	--	16
Engineering Science Course		06	08	--	--	--	--	--	--	14
Programme Core Course (PCC)	Program Courses	02	--	11	07	13	12	10	--	55
Programme Elective Course (PEC)		--	--	--	--	03	06	03	07	19
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	--	--	02	02	04	02	03	--	13
Open Elective(OE) Other than a particular program		--	--	03	02	02	--	--	--	07
Vocational and Skill Enhancement Course(VSEC)	Skill Courses	02	02	--	02	--	02	--	--	08
Ability Enhancement Course (AEC-01,AEC-02)	Humanities Social Science and Management (HSSM)	02	--	--	--	--	--	--	--	02
Entrepreneurship/Economics/Management Courses)		--	--	02	02	--	--	--	--	04
Indian Knowledge System(IKS)		--	02	--	--	--	--	--	--	02
Value Education Course(VEC)		--	--	02	04	--	--	--	--	06
Research Methodology	Experiential Learning Courses	--	--	--	--	--	--	02	--	02
Comm. Engg. Project (CEP)/Field Project(FP)		--	--	02	--	--	--	--	--	02
Project		--	--	--	--	--	--	04	--	04
Internship/OJT		--	--	--	--	--	--	--	12	12
Co-curricular(CC)	Liberal Learning Courses	02	02	--	--	--	--	--	--	04
Total Credits		22	22	22	19	22	22	22	19	170

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SCHEME OF EXAMINATION
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FIRST SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UFY1B1T	BSC	ASH	Integral Vector Calculus & statistics	3	1	0	4	40	60	--	--	100
2	24UFY1B2T	BSC	ASH	Engineering. Physics	3	0	0	3	40	60	--	--	100
3	24UFY1B2P	BSC	ASH	Lab: Engineering. Physics	0	0	2	1	--	--	25	25	50
4	24UFY1C3T	ESC	ET	Digital Circuits & Logic Design	3	0	0	3	40	60	--	--	100
5	24UFY1C3P	ESC	ET	Lab: Digital Circuits & Logic Design	0	0	2	1	--	--	25	25	50
6	24UFY1B4T	ESC	ME	Computer Aided Graphics	1	0	0	1	20	30	--	--	50
7	24UFY1B4P	ESC	ME	Lab: Computer Aided Graphics	0	0	2	1	--	--	25	25	50
8	24UFY123T	PCC	IT	Basic of Computation	2	0	0	2	20	30	--	--	50
9	24UFY1B6T	AEC	ASH	Communication Skill	1	0	0	1	20	30	--	--	50
10	24UFY1B6P	AEC	ASH	Lab: Communication Skill	0	0	2	1	--	--	25	25	50
11	24UFY1A7P	SEC1	ASH	Skill Enhancement in Analytical Techniques	0	1	2	2	--	--	25	25	50
12	24UFY111P	CC1	ASH	Liberal Learning Course:Yoga	0	1	2	2	--	--	50	--	50
	24UFY112P			Liberal Learning Course:Physical Education									
	24UFY113P			Liberal Learning Course:Music									
	24UFY114P			Liberal Learning Course: National Service Scheme (NSS)									
				Total	13	3	12	22	180	270	175	125	750

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SCHEME OF EXAMINATION
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SECOND SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UFY2A1T	BSC	ASH	Basic calculus & differential equations	3	1	0	4	40	60	--	--	100
2	24UFY2A2T	BSC	ASH	Engineering. Chemistry	3	0	0	3	40	60	--	--	100
3	24UFY2A2P	BSC	ASH	Lab: Engineering. Chemistry	0	0	2	1	--	--	25	25	50
4	24UFY2A3T	ESC	CT	Programming for Problem Solving	3	0	0	3	40	60	--	--	100
5	24UFY2A3P	ESC	CT	Lab: Programming for Problem Solving	0	0	2	1	--	--	25	25	50
6	24UFY2A4T	ESC	EE	Basics of Electrical & Electronics Engineering	3	0	0	3	40	60	--	--	100
7	24UFY2A4P	ESC	EE	Lab: Basics of Electrical& Electronics Engineering	0	0	2	1	--	--	25	25	50
8	24UFY2A5T	IKS	ASH	Indian Traditional knowledge	2	0	0	2	20	30	--	--	50
9	24UFY2A6P	SEC2	ASH	Skill Enhancement in Instrumental Techniques	0	1	2	2	--	--	25	25	50
10	24UFY211P	CC2	ASH	Liberal Learning Course: Creative Arts	0	1	2	2	--	--	50	--	50
	24UFY212P			Liberal Learning Course: Professional Skills									
	24UFY213P			Liberal Learning Course: Photography & Film Making									
	24UFY214P			Liberal Learning Course: Foreign Language (German or French)									
				TOTAL	14	3	10	22	180	270	150	100	700

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THIRD SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UCS301T	PCC	CSE	Object Oriented Programming	3	0	0	3	40	60	-	-	100
2	24UCS301P	PCC	CSE	Lab: Object Oriented Programming	0	0	2	1	-	-	25	25	50
3	24UCS302T	PCC	CSE	Computer Architecture & Organization	3	0	0	3	40	60	-	-	100
4	24UCS303T	PCC	CSE	Data Structures	3	0	0	3	40	60	--	--	100
5	24UCS303P	PCC	CSE	Lab: Data Structures	0	0	2	1	-	-	25	25	50
6	24UBS304T	MDM	ASH	Probability Theory and Statistics	2	0	0	2	20	30	-	-	50
7	24UOE3XXT	OE	CSE	Open Elective: 01	3	0	0	3	40	60	-	-	100
8	24UBS305T	VEC	ASH	Professional Communication	2	0	0	2	20	30	-	-	50
9	24UBS306T	EMC	ASH	Digital Economy & Management	2	0	0	2	20	30	-	-	50
10	24UCS307P	FP/CEP	CSE	Community Engagement Project/ Field project	0	0	4	2	-	-	50	-	50
				Total	18	0	8	22	220	330	100	50	700

Open Elective -01		
S.N.	Course Code	Course Name
1	24UOE334T	Introduction to Cyber Security
2	24UOE335T	Introduction to Database Management Systems
3	24UOE336T	Introduction to Data Science
Multidisciplinary Minor : 01		
S.N.	Course Code	Course Name
1	24UBS304T	Probability Theory and Statistics

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FOURTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UCS401T	PCC	CSE	Database Management Systems	3	0	0	3	40	60	--	--	100
2	24UCS401P	PCC	CSE	Lab: Database Management Systems	0	0	2	1	--	--	25	25	50
3	24UCS402T	PCC	CSE	Operating Systems	3	0	0	3	40	60	--	--	100
4	24UXX40XT	MDM	IIOT/ ASH/ ETC	Multidisciplinary Minor –02	2	0	0	2	20	30	--	--	50
5	24UOE4XXT	OE	CSE	Open Elective – 02	2	0	0	2	20	30	--	--	50
6	24UCS403P	VSEC	CSE	Lab: Programming Lab I	0	0	2	1	--	--	25	25	50
7	24UCS404P	VSEC	CSE	Lab: Programming Lab II	0	0	2	1	--	--	25	25	50
8	24UCS405T	VEC	CSE	Professional Ethics in IT	2	0	0	2	20	30	--	--	50
9	24UBS408T	EMC	ASH	Entrepreneurship Development & Startup	2	0	0	2	20	30	--	--	50
10	24UBS410T	VEC	ASH	Environmental Science	2	0	0	2	20	30	--	--	50
				Total	16	0	6	19	180	270	75	75	600

Multidisciplinary Minor : 02		
S.N.	Course Code	Course Name
1	24UII406T	Fundamental of IOT and Its Applications
2	24UBS404T	Fundamentals for Statistics and Analytics
3	24UET406T	Data Communication Systems
Open Elective: 02		
S.N.	Course Code	Course Name
1	24UOE431T	Cryptography and Network Security
2	24UOE432T	Data Warehousing and Mining

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FIFTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UCS501T	PCC	CSE	Computer Networks	3	0	0	3	40	60	--	--	100
2	25UCS502T	PCC	CSE	Formal Languages and Automata Theory	3	0	0	3	40	60	--	--	100
3	25UCS503T	PCC	CSE	Artificial Intelligence and Machine Learning	3	0	0	3	40	60	--	--	100
4	25UCS503P	PCC	CSE	Lab: Artificial Intelligence and Machine Learning	0	0	2	1	--	--	25	25	50
5	25UCS504T	PCC	CSE	Software Engineering and Project Management	2	0	0	2	20	30	--	--	50
6	25UCS505P	PCC	CSE	Lab: Hardware Lab	0	0	2	1	--	--	25	25	50
7	25UCS5XXT	PEC	CSE	Program Elective Course:01	3	0	0	3	40	60	--	--	100
8	25UAI507T/ 25UET504T/ 25UII508T	MDM	AI&DS /ETC /IIOT	Multidisciplinary Minor : 03	3	0	0	3	40	60	--	--	100
9	25UAI507P/ 25UET504P/ 25UII508P	MDM	AI&DS /ETC /IIOT	Lab: Multidisciplinary Minor:03	0	0	2	1	--	--	25	25	50
10	25UOE5XXT	OE	CSE	Open Elective : 03	2	0	0	2	20	30	--	--	50
				Total	19	0	6	22	240	360	75	75	750

Open Elective:03		
S.N.	Course Code	Course Name
1	25UOE534T	Artificial Intelligence
2	25UOE535T	Big Data Analytics

Program Elective Course:01		
S.N.	Course Code	Course Name
1	25UCS521T	Computer Graphics
2	25UCS522T	Salesforce
3	25UCS523T	Social Media and Security

Multidisciplinary Minor: 03		
S.N.	Course Code	Course Name
1	25UAI507T	Data Exploration and Visualization
2	25UAI507P	Lab: Data Exploration and Visualization
3	25UET504T	Microcontroller and Embedded Systems
4	25UET504P	Lab: Microcontroller and Embedded Systems
5	25UII508T	IoT Data Acquisition and Platforms
6	25UII508P	Lab: IoT Data Acquisition and Platforms


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SIXTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UCS601T	PCC	CSE	Compiler Design	3	0	0	3	40	60	--	--	100
2	25UCS601P	PCC	CSE	Lab: Compiler Design	0	0	2	1	--	--	25	25	50
3	25UCS602T	PCC	CSE	Design and Analysis of Algorithm	3	1	0	4	40	60	--	--	100
4	25UCS602P	PCC	CSE	Lab: Design and Analysis of Algorithm	0	0	2	1	--	--	25	25	50
5	25UCS603T	PCC	CSE	Cryptography and Network Security	3	0	0	3	40	60	--	--	100
6	25UCS604P	VSEC	CSE	Lab: Programming lab III	0	0	2	1	--	--	25	25	50
7	25UCS605P	VSEC	CSE	Lab: Programming Lab IV	0	0	2	1	--	--	25	25	50
8	25UCS6XXT	PEC	CSE	Program Elective Course:02	3	0	0	3	40	60	--	--	100
9	25UCS6XXT	PEC	CSE	Program Elective Course:03	3	0	0	3	40	60	--	--	100
10	25UCS606P	MDM	CSE	Employability Enhancement Skills	0	0	4	2	--	--	100	--	100
				Total	15	1	12	22	200	300	200	100	800

Program Elective Course:02		
S.N.	Course Code	Course Name
1	25UCS621T	Computer Vision
2	25UCS622T	Distributed Databases
3	25UCS623T	TCP/IP

Program Elective Course:03		
S.N.	Course Code	Course Name
1	25UCS631T	Natural Language Processing
2	25UCS632T	Data Warehousing and Mining
3	25UCS633T	Blockchain and Cryptocurrency

Multidisciplinary Minor :04		
S.N.	Course Code	Course Name
1	25UCS606P	Employability Enhancement Skills

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SCHEME OF EXAMINATION
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SEVENTH SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UCS701T	PCC	CSE	Cloud Computing and Web Analytics	3	1	0	4	40	60	--	--	100
2	26UCS702T	PCC	CSE	Advances in Algorithms	3	1	0	4	40	60	--	--	100
3	26UCS703T	RM	CSE	Research Methodology	2	0	0	2	20	30	--	--	50
4	26UCS704P	PCC	CSE	Lab: Programming Lab V	0	0	2	1	--	--	25	25	50
5	26UCS705P	PCC	CSE	Lab: Programming Lab VI	0	0	2	1	--	--	25	25	50
6	26UCS7XXT	PEC	CSE	Program Elective Course:04	3	0	0	3	40	60	--	--	100
7	26UAI706T/ 26UET704T/ 26UII706T	MDM	AI&DS/ ETC /IIOT	Multidisciplinary Minor : 05	3	0	0	3	40	60	--	--	100
8	26UCS706P	Project	CSE	Project	0	0	8	4	--	--	50	50	100
				Total	14	2	12	22	180	270	100	100	650

Program Elective Course:04		
S.N.	Course Code	Course Name
1	26UCS721T	Deep Learning
2	26UCS722T	Data Analytics and Visualization
3	26UCS723T	Ethical Hacking

Multidisciplinary Minor : 05		
S.N.	Course Code	Course Name
1	26UAI706T	Business Analytics
2	26UET704T	Mobile Communication
3	26UII706T	Embedded Systems for IoT

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SCHEME OF EXAMINATION
B. TECH. COMPUTER SCIENCE AND ENGINEERING

EIGHT SEMESTER

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UCS8XXT	PEC	CSE	Program Elective Course:05 (MOOC*)	3	0	0	3	40	60	--	--	100
2	26UCS8XXT	PEC	CSE	Program Elective Course:06 (MOOC*)	4	0	0	4	40	60	--	--	100
3	26UCS801P	Internship /OJT	CSE	Internship/Project	0	0	24	12	--	--	150	150	300
				Total	7	0	24	19	80	120	150	150	500

*The list for MOOC Courses will be shared at the beginning of semester.

End Semester Examination will be conducted by Priyadarshini College of Engineering.

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SCHEME OF EXAMINATION
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Annexure-1
Basket of Multidisciplinary Minor Subjects

Sr. No.	Semester	Course Code	BOS/Dept	Course Name	Credits
1.	III SEM	24UBS304T	ASH	Probability Theory and Statistics	2
2.	IV SEM	24UBS404T	ASH	Fundamentals for Statistics and Analytics	2
		24UII406T	IIoT	Fundamental of IOT & its applications	
		24UET406T	ETC	Data Communication System	
3.	V SEM	25UAI507T	AI&DS	Data Exploration and Visualization	3+1
		25UAI507P	AI&DS	Lab: Data Exploration and Visualization	
		25UII508T	IIoT	IoT Data Acquisition and Platforms	
		25UII508P	IIoT	Lab: IoT Data Acquisition and Platforms	
		25UET504T	ETC	Microcontroller and Embedded Systems	
		25UET504P	ETC	Lab: Microcontroller and Embedded Systems	
4.	VI SEM	25UCS606P	CSE	Employability Enhancement Skills	2
5.	VII SEM	26UAI706T	AI&DS	Business Analytics	3
		26UII706T	IIoT	Embedded Systems for IoT	
		26UET704T	ETC	Mobile Communication	
				Total	13

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Annexure-2
Basket of Open Elective Subjects

Semester III

Sr. No.	Course Code	Course Name OE:01
1.	24UOE334T	Introduction to Cyber Security
2.	24UOE335T	Introduction to Database Management Systems
3.	24UOE336T	Introduction to Data Science

Semester IV

Sr. No.	Course Code	Course Name OE:02
1.	24UOE431T	Cryptography and Network Security
2.	24UOE432T	Data Warehousing and Mining

Semester V

Sr. No.	Course Code	Course Name OE:03
1.	25UOE534T	Artificial Intelligence
2.	25UOE535T	Big Data Analytics

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Annexure-3
List of Programme Elective Courses (PEC)

Semester-V

S.N.	Course Code	Course Name (PEC: 01)
1.	25UCS521T	Computer Graphics
2.	25UCS522T	Salesforce
3.	25UCS523T	Social Media and Security

Semester-VI

S.N.	Course Code	Course Name (PEC:02)
1.	25UCS621T	Computer Vision
2.	25UCS622T	Distributed Databases
3.	25UCS623T	TCP/IP

Semester-VI

S.N.	Course Code	Course Name (PEC:03)
1.	25UCS631T	Natural Language Processing
2.	25UCS632T	Data Warehousing and Mining
3.	25UCS633T	Blockchain and Cryptocurrency

Semester-VII

S.N.	Course Code	Course Name (PEC:04)
1.	26UCS721T	Deep Learning
2.	26UCS722T	Data Analytics and Visualization
3.	26UCS723T	Ethical Hacking

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Annexure-4

B. TECH HONORS IN CYBER SECURITY AND DIGITAL FORENSICS

Sr. No.	Sem	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	IV	24UHCCS4T	PCC	CSE	Foundations of Cyber Security and Digital Forensics	3	0	0	3	40	60	--	--	100
2	IV	24UHCCS4P	PCC	CSE	Lab: Foundations of Cyber Security and Digital Forensics	0	0	2	1	--	--	25	25	50
3	V	25UHCCS5T	PCC	CSE	Advanced Cyber Security and Digital Evidence Analysis	3	0	0	3	40	60	--	--	100
4	V	25UHCCS5P	PCC	CSE	Lab: Advanced Cyber Security and Digital Evidence Analysis	0	0	2	1	--	--	25	25	50
5	VI	25UHCCS6T	PCC	CSE	Digital Forensics Investigations	3	0	0	3	40	60	--	--	100
6	VI	25UHCCS6P	PCC	CSE	Lab: Digital Forensics Investigations	0	0	2	1	--	--	25	25	50
7	VII	26UHCCS7T	PCC	CSE	Emerging Trends in Cyber Security and Digital Forensics	3	0	0	3	40	60	--	--	100
8	VII	26UHCCS7P	Project	CSE	Project	0	0	6	3	--	--	50	50	100
					Total	12	0	12	18	120	240	125	125	650

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Annexure-5
B. TECH DOUBLE MINOR (Multidisciplinary)
ARTIFICIAL INTELLIGENCE

Sr. No.	Sem	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
										Theory		Practical		
						L	T	P	Credits	CE	ESE	CE	ESE	
1	IV	24UDMCS4T	PCC	CSE	Artificial Intelligence Fundamentals	3	0	0	3	40	60	--	--	100
2	IV	24UDMCS4P	PCC	CSE	Lab: Artificial Intelligence Fundamentals	0	0	2	1	--	--	25	25	50
3	V	25UDMCS5T	PCC	CSE	Machine Learning Concepts	3	0	0	3	40	60	--	--	100
4	V	25UDMCS5P	PCC	CSE	Lab: Machine Learning Concepts	0	0	2	1	--	--	25	25	50
5	VI	25UDMCS6T	PCC	CSE	Deep Learning Techniques	3	0	0	3	40	60	--	--	100
6	VI	25UDMCS6P	PCC	CSE	Lab : Deep Learning Techniques	0	0	2	1	--	--	25	25	50
7	VII	26UDMCS7T	PCC	CSE	Intelligent Systems	3	0	0	3	40	60	--	--	100
8	VII	26UDMCS7P	Project	CSE	Project	0	0	6	3	--	--	50	50	100
					Total	12	0	12	18	120	240	125	125	650

BOS Chairman
Dr.(Mrs.) L. H. Patil

Dean Academics
Dr.(Mrs.) S. N. Rao

Principal
Dr. S. A. Dhale



SCHEME OF EXAMINATION
B. TECH. COMPUTER SCIENCE AND ENGINEERING

Exit Scheme

Certificate Course After B.Tech First year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UECCCST	PCC	CSE	Digital Skills and Online Earning Tools	4	0	0	4	40	60	--	--	100
2	24UECCCSP	PCC	CSE	Lab:Digital Skills and Online Earning Tools	0	0	8	4	--	--	50	50	100
				Total	4	0	8	08	40	60	50	50	200

Diploma Course After B.Tech Second year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hour				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	25UEDCCST	PCC	CSE	Hardware and Networking	4	0	0	4	40	60	--	--	100
2	25UEDCCSP	Project	CSE	Project/Internship	0	0	8	4	--	--	50	50	100
				Total	4	0	8	08	40	60	50	50	200

B.Vocational Course After B.tech Third Year (08 Credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hour				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UEBVCST	PCC	CSE	MOOC/SWAYAM/NPTEL courses	4	0	0	4	40	60	--	--	100
2	26UEBVCSP	Project	CSE	Project/Internship	0	0	8	4	--	--	50	50	100
				Total	4	0	8	08	40	60	50	50	200

*Abbreviation: E: Exit Course, CC: Certificate Course, DC: Diploma Course, BV: B. Vocational

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