



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. INDUSTRIAL IOT

WITH EFFECT FROM THE ACADEMIC YEAR 2024-2025.

LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA

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SCHEME OF EXAMINATION
B. TECH. INDUSTRIAL IOT

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		08	06	--	--	--	--	--	--	14
Programme Core Course (PCC)	Program Courses	--	02	12	11	12	06	11	--	54
Programme Elective Course (PEC)		--	--	--	--	03	07	03	06	19
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	--	--	03	03	02	04	02	--	14
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	--	--	--	--	--	04
Entrepreneurship/Economics/ Management Courses		--	--	--	--	02	02	--	--	04
Indian Knowledge System(IKS)		--	02	--	--	--	--	--	--	02
Value Education Course (VEC)		--	--	--	04	--	--	--	--	04
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 Courses(CC)	Liberal Learning Courses	02	02	--	--	--	--	--	--	04
Total Credits (Major)		22	22	22	22	23	21	20	18	170

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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	24UFY1A1T	BSC	ASH	Basic Calculus & Differential Equations	3	1	0	4	40	60	--	--	100
2	24UFY1A2T	BSC	ASH	Engineering Chemistry	3	0	0	3	40	60	--	--	100
3	24UFY1A2P	BSC	ASH	Lab: Engineering Chemistry	0	0	2	1	--	--	25	25	50
4	24UFY1A3T	ESC	CSE	Programming for Problem Solving	3	0	0	3	40	60			100
5	24UFY1A3P	ESC	CSE	Lab: Programming for Problem Solving	0	0	2	1	--	--	25	25	50
6	24UFY1A4T	ESC	EE	Basics of Electrical &Electronics Engineering	3	0	0	3	40	60	--	--	100
7	24UFY1A4P	ESC	EE	Lab: Basics of Electrical & Electronics Engineering	0	0	2	1	--	--	25	25	50
8	24UFY1A5T	IKS	ASH	Indian Traditional Knowledge	2	0	0	2	20	30	--	--	50
9	24UFY1A6P	SEC1	ASH	Skill Enhancement in Instrumental Techniques	0	1	2	2	--	--	25	25	50
10	24UFY111P	CC1	ASH	Liberal Learning Course:Yoga and Meditation	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)									
					14	3	10	22	180	270	150	100	700

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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.	24UFY2B1T	BSC	ASH	Integral Vector Calculus & Statistics	3	1	0	4	40	60	--	--	100
2.	24UFY2B2T	BSC	ASH	Engineering. Physics	3	0	0	3	40	60	--	--	100
3.	24UFY2B2P	BSC	ASH	Lab: Engineering. Physics	0	0	2	1	--	--	25	25	50
4.	24UFY2C3T	ESC	ETC	Digital Circuits & Logic Design	3	0	0	3	40	60	--	--	100
5.	24UFY2C3P	ESC	ETC	Lab: Digital Circuits & Logic Design	0	0	2	1	--	--	25	25	50
6.	24UFY2B4T	ESC	ME	Computer Aided Graphics	1	0	0	1	20	30	--	--	50
7.	24UFY2B4P	ESC	ME	Lab: Computer Aided Graphics	0	0	2	1	--	--	25	25	50
8.	24UFY223T	PCC	AI&DS	Elements of Artificial Intelligence	2	0	0	2	20	30	--	--	50
9.	24UFY2B6T	AEC	ASH	Communication Skill	1	0	0	1	20	30	--	--	50
10.	24UFY2B6P	AEC	ASH	Lab: Communication Skill	0	0	2	1	--	--	25	25	50
11	24UFY2A7P	SEC2	ASH	Skill Enhancement in Analytical Techniques	0	1	2	2	--	--	25	25	50
12.	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	13	3	12	22	180	270	175	125	750



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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	24UII301T	PCC	IHOT	Data Structures & Algorithm Design	3	0	0	3	40	60	-	-	100
2	24UII301P	PCC	IHOT	Lab-Data Structures & Algorithm Design	0	0	2	1	-	-	25	25	50
3	24UII302T	PCC	IHOT	Logic Design & Microcontroller	3	0	0	3	40	60	-	-	100
4	24UII302P	PCC	IHOT	Lab-Logic Design & Microcontroller	0	0	2	1	-	-	25	25	50
5	24UII303T	PCC	IHOT	Introduction to IoT	3	0	0	3	40	60	-	-	100
6	24UII304P	PCC	IHOT	Lab-Programming with C++	0	0	2	1	-	-	25	25	50
7	24UOE3XXT	OE	IHOT	Open Elective: 01	3	0	0	3	40	60	-	-	100
8	24UBS305T	AEC	ASH	Professional Communication	2	0	0	2	20	30	-	-	50
9	24UCT309T	MDM	CT	Multidisciplinary Minor :01	3	0	0	3	40	60	-	-	100
10	24UII308P	CEP	IHOT	Community Engagement project	0	0	4	2	-	-	50	-	50
				Total	17	0	10	22	220	330	125	75	750

Open Elective:01		
S.N.	Course Code	Course Name
1	24UOE347T	IOT & Its Applications
2	24UOE348T	Microprocessors & Microcontroller
Multidisciplinary Minor :01		
S.N.	Course Code	Course Name
1	24UCT309T	Operating System

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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	24UII401T	PCC	IIOT	Sensors and Actuators	3	0	0	3	40	60	-	-	100
2	24UII401P	PCC	IIOT	Lab: Sensors and Actuators	0	0	2	1	-	-	25	25	50
3	24UII402T	PCC	IIOT	Embedded System for IOT	3	0	0	3	40	60	-	-	100
4	24UII402P	PCC	IIOT	Lab: Embedded System for IOT	0	0	2	1	-	-	25	25	50
5	24UII403T	PCC	IIOT	Computer Communication Networks	3	0	0	3	40	60	-	-	100
6	24UBS406T	MDM	ASH	Multidisciplinary Minor :02	3	0	0	3	40	60	-	-	100
7	24UOE4XXT	OE	IIOT	Open Elective:02	2	0	0	2	20	30	-	-	50
8	24UII404P	VSC	IIOT	Lab: Software Lab	0	0	4	2	-	-	50	--	50
9	24UBS409T	VEC	ASH	Professional Ethics for Engineers	2	0	0	2	20	30	-	-	50
10	24UBS410T	VEC	ASH	Environmental Science	2	0	0	2	20	30	-	-	50
				Total	18	0	8	22	220	330	100	50	700

Open Elective:02

S.N.	Course Code	Course Name
1	24UOE447T	Embedded System for IoT Applications
2	24UOE448T	Automation & Sensors Technologies

Multidisciplinary Minor :02

S.N.	Course Code	Course Name
1.	24UBS406T	Probability and Statistics

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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	25UII501T	PCC	IIOT	IOT Architecture & Protocols	3	0	0	3	40	60	-	-	100
2	25UII501P	PCC	IIOT	Lab: IOT Architecture & Protocols	0	0	2	1	-	-	25	25	50
3	25UII502T	PCC	IIOT	Digital Signal Processing	3	0	0	3	40	60	-	-	100
4	25UII502P	PCC	IIOT	Lab: Digital Signal Processing	0	0	2	1	-	-	25	25	50
5	25UII503T	PCC	IIOT	Database Management System	2	0	0	2	20	30	-	-	50
6	25UII503P	PCC	IIOT	Lab: Database Management System	0	0	2	1	-	-	25	25	50
7	25UII504P	PCC	IIOT	Programming with JAVA	0	0	2	1	-	-	50	-	50
8	25UII5XXT	PEC	IIOT	Program Elective Course:01	3	0	0	3	40	60	-	-	100
9	25UII505P	VSC	IIOT	Vocational Course on Web Technology	0	0	4	2	-	-	50	-	50
10	25UII506P	MDM	IIOT	Multidisciplinary Minor:03	0	0	4	2	-	-	100	-	100
11	25UOE5XXT	OE	IIOT	Open Elective:03	2	0	0	2	20	30	-	-	50
12	25UBS504T	EMC	ASH	Digital Economy & Management	2	0	0	2	20	30	-	-	50
				Total	15	0	16	23	180	270	275	75	800

Open Elective: 03		
S.N.	Course Code	Course Name
1	25UOE546T	Embedded and Real Time System
2	25UOE547T	Industrial IoT

Program Elective Course :01		
S.N.	Course Code	Course Name
1	25UII521T	Real Time Operating System
2	25UII522T	Blockchain Technology
3	25UII523T	Analog & Digital Communication

Multidisciplinary Minor :03		
S.N.	Course Code	Course Name
1	25UII506P	Employability Enhancement Skills



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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	25UII601T	PCC	IIOT	Cloud Computing	3	0	0	3	40	60	-	-	100
2	25UII602T	PCC	IIOT	Industry 4.0 and IoT	2	0	0	2	20	30	-	-	50
3	25UII602P	PCC	IIOT	Lab: Industry 4.0 and IoT	0	0	2	1	-	-	25	25	50
4	25UII6XXT	PEC	IIOT	Program Elective Course :02	3	0	0	3	40	60	-	-	100
5	25UII6XXP	PEC	IIOT	Lab: Program Elective Course :02	0	0	2	1	-	-	25	25	50
6	25UII6XXT	PEC	IIOT	Program Elective Course :03	3	0	0	3	40	60	-	-	100
7	25UII603T	RM	IIOT	Research Methodology	2	0	0	2	20	30	-	-	50
8	25UBS601T	EMC	ASH	Entrepreneurship Development and Startups	2	0	0	2	20	30	-	-	50
9	25UAI606T/ 25UCS610T	MDM	AI&DS / CSE	Multidisciplinary Minor:04	3	0	0	3	40	60	-	-	100
10	25UAI606P/ 25UCS610P	MDM	AI&DS/ CSE	Lab: Multidisciplinary Minor:04	0	0	2	1	-	-	25	25	50
				Total	18	0	6	21	220	330	75	75	700

Program Elective Course :02

S.N.	Course Code	Course Name
1	25UII621T	Digital Design using Verilog
2	25UII621P	Lab: Digital Design using Verilog
3	25UII622T	Arm Processor & Its Essentials
4	25UII622P	Lab: Arm Processor & Its Essentials
5	25UII623T	Natural Language Processing
6	25UII623P	Lab: Natural Language Processing

Program Elective Course:03

S.N.	Course Code	Course Name
1	25UII631T	Optical Communication
2	25UII632T	Web & Social Media Analytics
3	25UII633T	Mobile Communication

Multidisciplinary Minor :04

S.N.	Course Code	Course Name
1	25UAI606T	Artificial Intelligence & Machine Learning
2	25UAI606P	Lab: Artificial Intelligence & Machine Learning
3	25UCS610T	Software Engineering & Testing
4	25UCS610P	Lab: Software Engineering & Testing


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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	26UII701T	PCC	IIOT	Mobile & Web Application Development	3	-	-	3	40	60			100
2	26UII701P	PCC	IIOT	Lab: Mobile & Web Application Development	-	-	2	1			25	25	50
3	26UII702T	PCC	IIOT	Data Analytics for IoT	3	-	-	3	40	60			100
4	26UII702P	PCC	IIOT	Lab: Data Analytics for IoT	-	-	2	1			25	25	50
5	26UII703T	PCC	IIOT	Wireless Sensor Networks	3	-	-	3	40	60			100
6	26UII7XXT	PEC	IIOT	Program Elective Course: 04	3	-	-	3	40	60			100
7	26UAI707T/ 26UCS710T	MDM	AI&DS /CSE	Multidisciplinary Minor:05	2	-	-	2	20	30			50
8	26UII704P	Project	IIOT	Project	-	-	8	4			50	50	100
				Total	14	-	12	20	180	270	100	100	650

Program Elective Course : 04		
S.N.	Course Code	Course Name
1	26UII721T	Big Data Analytics
2	26UII722T	Digital Image Processing
3	26UII723T	Deep Learning

Multidisciplinary Minor :05		
S.N.	Course Code	Course Name
1	26UAI707T	Python for data Science
2	26UCS710T	Cryptography and Network Security

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EIGHTH SEMESTER

Sr. No.	Course Code	Cours Category	BOS / Dept	Course Name	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	26UII8XXT	PEC	IIOT	Program Elective Course: 05 (MOOC)*	3	-	-	3	40	60	-	-	100
2	26UII8XXT	PEC	IIOT	Program Elective Course:06 (MOOC)*	3	-	-	3	40	60	-	-	100
3	26UII801P	Internship /OJT	IIOT	Internship/Project	-	-	24	12	-	-	150	150	300
				Total	6	-	24	18	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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Annexure-1
Basket of Multidisciplinary Minor Subjects
Basket : AI & Data Science

Sr. No.	Semester	Course Code	BOS/Department	Course Name	Credits
1	III	24UCT309T	CT	Operating System	3
2	IV	24UBS404T	ASH	Probability and Statistics	3
3	V	25UII506P	IIOT	Employability Enhancement Skills	2
4	VI	25UAI606T	AI&DS	Artificial Intelligence & Machine Learning	3
5	VI	25UAI606P	AI&DS	Lab: Artificial Intelligence & Machine Learning	1
6	VII	26UAI707T	AI&DS	Python for data Science	2
Total					14

Basket 2 : Computer Science and Engineering

Sr. No.	Semester	Course Code	BOS/Department	Course Name	Credits
1	III	24UCT309T	CT	Operating System	3
2	IV	24UBS404T	ASH	Probability and Statistics	3
3	V	25UII506P	IIOT	Employability Enhancement Skills	2
4	VI	25UCS610T	CSE	Software Engineering & Testing	3
5	VI	25UCS610P	CSE	Lab: Software Engineering & Testing	1
6	VII	26UCS710T	CSE	Cryptography and Network Security	2
Total					14

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Annexure-2
Basket of Open Elective Subjects

Semester III

Sr. No.	Course Code	Course Name OE:01
1.	24UOE325T	IOT & Its Applications
2.	24UOE326T	Microprocessors & Microcontroller

Semester IV

Sr. No.	Course Code	Course Name PEC-01
1.	24UOE425T	Embedded System for IoT Applications
2.	24UOE426T	Automation & Sensor Technologies

Semester V

Sr. No.	Course Code	Course Name PEC-01
1.	25UOE525T	Embedded and Real Time System
2.	25UOE526T	Industrial IoT

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Annexure-3
List of Programme Elective Courses (PEC)
Semester-V

Sr. No.	Course Code	Course Name (PEC:01)
1.	25UII521T	Real Time Operating System
2.	25UII522T	Blockchain Technology
3.	25UII523T	Analog & Digital Communication

Semester-VI

Sr. No.	Course Code	Course Name PEC:02
1.	25UII621T	Digital Design using Verilog
2.	25UII621P	Lab: Digital Design using Verilog
3.	25UII622T	Arm Processor & Its Essentials
4.	25UII622P	Lab: Arm Processor & Its Essentials
5.	25UII623T	Natural Language Processing
6.	25UII623P	Lab: Natural Language Processing

Sr. No.	Course Code	Course Name PEC:03
1.	25UII631T	Optical Communication
2.	25UII632T	Web & Social Media Analytics
3.	25UII633T	Mobile Communication

Semester-VII

Sr. No.	Course Code	Course Name PEC:04
1.	26UII721T	Big Data Analytics
2.	26UII722T	Digital Image Processing
3.	26UII723T	Deep Learning

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Annexure-4
B. Tech. Honors in Sensor Technology

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	24UHSII4T	PCC	IIOT	Advanced Sensors	3	0	0	3	40	60	-	-	100
2	IV	24UHSII4P	PCC	IIOT	Lab: Advanced Sensors	0	0	2	1	-	-	25	25	50
3	V	25UHSII5T	PCC	IIOT	IoT Design	3	0	0	3	40	60	-	-	100
4	V	25UHSII5P	PCC	IIOT	Lab: IoT Design	0	0	2	1	40	60	-	-	50
5	VI	25UHSII6T	PCC	IIOT	Machine Learning for IoT	3	0	0	3	40	60	-	-	100
6	VI	25UHSII6P	PCC	IIOT	Lab: Machine Learning for IoT	0	0	2	1	-	-	25	25	50
7	VII	26UHSII7T	PCC	IIOT	Data Analytics and Visualization	2	0	0	2	20	30	-	-	50
8	VII	26UHSII7P	PCC	IIOT	Project	0	0	8	4	-	-	50	50	100
					Total	11	0	14	18	180	270	100	100	600

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Annexure-5
B. Tech. Double Minor (Multidisciplinary)
Internet of Things (IoT)

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	24UDMII4T	PCC	IIOT	Introduction to Internet of Things (IoT)	3	0	0	3	40	60	-	-	100
2	IV	24UDMII4P	PCC	IIOT	Lab: Introduction to Internet of Things (IoT)	0	0	2	1	-	-	25	25	50
3	V	25UDMII5T	PCC	IIOT	IoT System Design	3	1	0	4	40	60	-	-	100
4	V	25UDMII5P	PCC	IIOT	Lab: IoT System Design	0	0	2	1	40	60	25	25	50
5	VI	25UDMII6T	PCC	IIOT	Information Security	3	0	0	3	40	60	-	-	100
6	VII	26UDMII7T	PCC	IIOT	Industrial IoT	3	0	0	3	40	60	-	-	100
7	VII	26UDMII7P	PCC	IIOT	Project	0	0	6	3	-	-	50	50	100
					Total	12	1	10	18	200	300	100	100	600

BOS Chairman
Dr. A. B. Jirapure

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

Principal
Dr. S. A. Dhale



SCHEME OF EXAMINATION
B. TECH. INDUSTRIAL IOT

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	24UECCIIT	PCC	IIOT	Introduction to IoT	4	0	0	4	40	60	--	--	100
2	24UECCHIP	PCC	IIOT	Electronics Workshop & Mini Project	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)

Diploma Course after B.Tech Second 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	25UEDCIIT	PCC	IIOT	Industry 4.0 and IoT	4	0	0	4	40	60	--	--	100
2	25UEDCIIT	PCC	IIOT	Skill Based 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)

B. Vocational Course after B.Tech Third 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	26UEBVIIT	PCC	IIOT	Data Analytics for IoT	4	0	0	4	40	60	--	--	100
2	26UEBVIIT	PCC	IIOT	Project	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
IIOT: Industrial IOT

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