



**JSPM UNIVERSITY PUNE**

Recognized by UGC u/s 2 (f) of UGC Act 1956 and enacted by the  
State Government of Maharashtra - JSPM University Act, 2022 (Mah.IV of 2023)

**JSPM University Pune**  
**Faculty of Science and Technology**  
**School of Computational Sciences**



**NEP aligned Curriculum Structure**

**for**

**B. Tech (Information Technology) Lateral**

**(Effective from AY: 2024-25)**



# JSPM University Pune

FACULTY OF SCIENCE AND TECHNOLOGY

SCHOOL OF COMPUTATIONAL SCIENCES

## COURSE STRUCTURE (NEP 2020 Aligned)

W. E. F

2024-2025

RELEASE DATE

01/07/2024

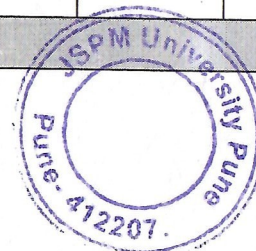
SECOND YEAR BACHELOR OF TECHNOLOGY (LATERAL)  
(INFORMATION TECHNOLOGY)

REVISION NO.

1.0 (NEP)

### SEMESTER III (LEVEL 5)

TYPE	CODE	COURSE NAME	TEACHING SCHEME				EXAMINATION SCHEME AND MARKS									TOTAL	CREDITS
			Hours / Week				THEORY (Equal Weightage for CIE and ESE)			PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)					
			L	T	P	EL	CONTINUOUS INSEMESTER EVALUATION (100 Marks)			END SEMESTER EXAMINATION (100 / 50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)			
							T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)								
BSC	230GMAL01_03	Linear Algebra and Univariate Calculus	3	1	-	-	30	30	40	100	-	-	-	-	100	4	
PCC	230GCSB05_03	Data Structures	3	-	-	-	30	30	40	100	-	-	-	-	100	3	
	230GCSB76_03	Basics of Information Security	2	-	-	-	30	30	40	50	-	-	-	-	50	2	
	240GCSB70_03	IT Security	2	-	-	2	30	30	40	100	-	-	-	-	100	2.5	
AEC	230UENB01_03	Effective Communication Skills	1	-	2	-	30	30	40	50	-	-	-	-	50	2	
MMC	---	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	50	50	50	50	100	2	
IDC	---	Interdisciplinary Open Course	2	-	-	-	30	30	40	100	-	-	-	-	100	2	
VSC	230IDCB01_03	Design Thinking and Creativity	1	-	-	2	-	-	-	-	-	-	50	50	50	1.5	
LC	230GCSB09_03	Data Structures Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
	240GCSB71_03	IT Security Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
TOTAL			15	1	8	4										750	21



Multidisciplinary Minor Course (MMC)					
Specialization	Electrical and Communication Sciences	Banking and Finance	Human Resource and Business Management	Cross-Disciplinary	
Course Code	230GMTB01_03	230VBCB09_03	230VHRB21_03	230HFGM26_03	230GMTB52_03
Course Name	Sensors and Actuators	Financial Literacy	Current Trends in Human Resource Management	Digital Investigations and Cyber Forensics	Autotronics
Course Code	230GETB09_04	230VBF02_04	230VFMB29_04	230UPYB04_04	230GCEB48_04
Course Name	Wireless Sensor Network	Basics of Stock Market	Financial Services	Positive Psychology	Geospatial Tools for Environmental Analysis
Course Code	230GETB34_05	230VBF04_05	230VFMB28_05	230USYB03_05	230GMEB52_05
Course Name	IoT and Applications	Digital Banking	Basics of Merger and Acquisition	Social Inequality	3D Printing
Course Code	230GETB36_06	230VBCB08_06	230VHRB24_06	230UEEB01_06	230GRAB53_06
Course Name	Microcontroller and Applications	Software for Financial Accounting	Introduction to Industrial Relations	Economics	Robot Operating Systems
Course Code	230GETB41_07	230VBF07_07	230VFMB24_07	230GCEB43_07	240GFRB55_07
Course Name	Introduction to Embedded Systems	Insurance Model	Corporate Finance	Water Resource Planning and Management	Legal Aspects of Fire Safety Health and Environment

Interdisciplinary Open Course (IOC)					
Specialization	Electrical and Communication Sciences	Banking and Finance	Human Resource and Business Management	Cross-Disciplinary	
Course Code	230GETB10_03	240VBCB02_03	230GCEB58_03	230VMSM09_03	230HFSB16_03
Course Name	Fundamentals of Signals and Systems	Introduction to E-Commerce	Sustainable Development Goals and Policies	Ethics and Sustainability for Business	Biology for Engineers
Course Code	230GETB33_05	230VBCB04_05	230GCEB40_05	230UPYB34_05	230GCEB29_05
Course Name	EV Technology	Basics of Accounting	Intelligent Transport Systems	Psychology at Workplace	Smart Cities
Course Code	230GETB32_07	230VBCB15_07	230GCEB31_07	230VBBB25_07	230GMEB64_07
Course Name	Cyber Physical Systems	Finance for Non-Finance	E-Waste Management	Economics for Management	Smart Materials

  
**Mrs. Kshitija S. Potdar**  
 Programme Coordinator, BTech-IT

  
**Prof. G. A. Patil**  
 Director, School of Computational Sciences

  
**Prof. R. S. Deshpande**  
 Dean, Faculty of Science and Technology

  
**Dr. Anuradha S. Deshpande**  
 Associate Dean (Academics)



  
**Prof. B.B. Ahuja**  
 Vice Chancellor, JSPM University Pune



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FACULTY OF SCIENCE AND TECHNOLOGY

SCHOOL OF COMPUTATIONAL SCIENCES

SECOND YEAR BACHELOR OF TECHNOLOGY (LATERAL)  
(INFORMATION TECHNOLOGY)

COURSE STRUCTURE  
(NEP 2020 Aligned)

W. E. F

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## SEMESTER IV (LEVEL 5)

COURSE			TEACHING SCHEME				EXAMINATION SCHEME AND MARKS								TOTAL	CREDITS
TYPE	CODE	COURSE NAME	Hours / Week				THEORY (Equal Weightage for CIE and ESE)			PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)				
			L	T	P	EL	CONTINUOUS INSEMESTER EVALUATION (100/25 Marks)			END SEMESTER EXAMINATION (100 / 50 / 75 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)		
							T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)							
BSC	230GMAL02_04	Multivariate Calculus and Differential Equations	3	1	-	-	30	30	40	100	-	-	-	-	100	4
PCC	230GCSB63_04	IT Applications and Data Security	3	-	-	-	30	30	40	100	-	-	-	-	100	3
	230GCSB27_04	Operating Systems	1	-	-	-	30	30	40	50	-	-	-	-	50	1
	240GCSB72_04	Object Oriented Programming using Java	2	-	-	-	30	30	40	50	-	-	-	-	50	2
AEC	230UENB02_04	Communicative Proficiency Skills	1	-	2	-	30	30	40	50	-	-	-	-	50	2
EEC	230GCEB02_04	Environment and Sustainability	2	-	-	-	30	30	40	50	-	-	-	-	100	2
MMC	---	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	50	50	50	50	100	3
SEC	230GCSB17_04	Development Tools Laboratory	2	-	2	-	-	-	-	-	50	50	-	-	50	1
LC	240GCSB73_04	Object Oriented Programming using Java Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
LC	230GCSB69_04	IT Applications and Data Security Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
IITP/FP/CEP	230GCSB16_04	Internship / Field Project / Community Engagement Program					4 to 6 weeks				-	-	50	50	50	2
<b>TOTAL</b>			15	1	10	-				75	-	-	-	-	750	23
DSH	---	Domain Specific Honors	3	-	-	-	25			75	-	-	-	-	100	3
MLC#	---	Audit Course	1	-	-	-				50	-	-	-	-	50	1



Multidisciplinary Minor Course (MMC)			
Course Code	230GMTB01_04	230GETB09_04	230GRAB55_04
Course Name	Sensors and Actuators	Wireless Sensor Network	Industrial Robots
Course Code	230GETB34_04	230VBCB09_04	230VBFB04_03
Course Name	IoT and Applications	Financial Literacy	Digital Banking
Course Code	230GETB36_04	230VBFB02_04	230GRAB53_04
Course Name	Microcontroller and Applications	Basics of Stock Market	Robot Operating Systems
Course Code	230GETB41_04	230VBCB08_04	230GMTB52_04
Course Name	Introduction to Embedded Systems	Software for Financial Accounting	Autotronics

Domain Specific Honors (DSH)				
Specialization	Artificial Intelligence and Machine Learning	Data Science	Cloud and DevOps	Blockchain Technology
Course Code	230GAIB03_04	230GCSB57_04	240GCSB75_04	240GCSB76_04
Course Name	Introduction to Machine Learning	Data Analytics with Python	Computer Networks and Internet Protocol	Blockchain and Its Applications (MOOC)

Mandatory Learning Course (MLC#) Audit Course			
Course Code	240GCSB220_04	240GCSB221_04	240GCSB222_04
Course Name	Microservices with AI	Data Analytics using Tableau	Spring Boot
Course Code	240GCSB223_04	230UPOB02_07	
Course Name	Cloud Computing and its Applications	Introduction to Indian Constitution	

**Note:** A Diploma will be awarded if a student exits after second year.

For "Exit" at the end of "Second Year" the student must complete a total of 8 additional credits.

a) An internship / OJT of 8 - 10 weeks (4 credits) over and above semester 4 internship of minimum 4 weeks.

b) Additional one Course of 4 credits (Course offered will be Vocational Skill Course (VSC) or Skill Enhancement Course (SEC) or a mini project)

  
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## COURSE STRUCTURE (NEP 2020 Aligned)

FACULTY OF SCIENCE & TECHNOLOGY

W. E. F

2025-2026

SCHOOL OF COMPUTATIONAL SCIENCES

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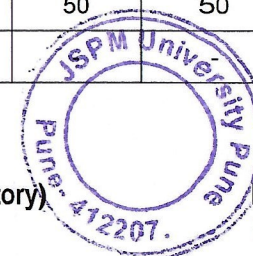
THIRD YEAR BACHELOR OF TECHNOLOGY (LATERAL)  
(INFORMATION TECHNOLOGY)

REVISION NO.

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### SEMESTER V (LEVEL 5.5)

COURSE			TEACHING SCHEME				EXAMINATION SCHEME AND MARKS								TOTAL	CREDITS
TYPE	CODE	COURSE NAME	Hours / Week				THEORY (Equal Weightage for CIE and ESE)			PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)				
			L	T	P	EL	CONTINUOUS INSEMESTER EVALUATION (100/25 Marks)			END SEMESTER EXAMINATION (100/75/ 50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)		
							T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)							
PSMC	240GCSB63_05	Probability and Statistics for Computer Science	3	-	-	-	30	30	40	100	-	-	-	-	100	3
PCC	231GCSB28_05	Database Management Systems	3	-	-	2	30	30	40	100	-	-	-	-	100	3.5
	230GCSB51_05	Computer Algorithms	3	-	-	-	30	30	40	100	-	-	-	-	100	3
PEC	---	Programme Elective Course	3	-	-	-	25			75	-	-	-	-	100	3
HSSM	231VBCB27_05	Finance for Engineers	1	-	-	4	-	-	-	-	-	-	50	50	50	2
MMC	---	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	50	50	50	50	100	2
IOC	---	Interdisciplinary Open Course	2	-	-	-	30	30	40	100	-	-	-	-	100	2
VSC	230IINB02_05	Innovation	1	-	-	2	-	-	-	-	-	-	50	50	50	1.5
LC	231GCSB35_05	Database Management Systems Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
	230GCSB52_05	Computer Algorithms Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
<b>TOTAL</b>			<b>17</b>	<b>-</b>	<b>8</b>	<b>4</b>								<b>800</b>	<b>22</b>	
DSH	---	Domain Specific Honors	3	-	-	-	30	30	40	100	-	-	-	-	100	3
LC	---	Domain Specific Honors Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
DSH	---	Domain Specific Honors	3	-	-	-	30	30	40	100	-	-	-	-	100	3
LC	---	Domain Specific Honors Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
MLC#	---	Audit Course	1	-	-	-	-	-	-	50	-	-	-	-	50	1



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Programme Elective Course (PEC)			
Course Code	230GCSB210_05	230GAIB25_05	230GCSB53_05
Course Name	Foundations of Virtual Reality (NPTEL_MOOC)	Artificial Intelligence: Concepts and Techniques (NPTEL_MOOC)	Cyber Security and Privacy (NPTEL_MOOC)

Multidisciplinary Minor Course (MMC)					
Specialization	Electrical and Communication Sciences	Banking and Finance	Human Resource and Business Management	Cross-Disciplinary	
Course Code	230GMTB01_03	230VBCB09_03	230VHRB21_03	230HFGM26_03	230GMTB52_03
Course Name	Sensors and Actuators	Financial Literacy	Current Trends in Human Resource Management	Digital Investigations and Cyber Forensics	Autotronics
Course Code	230GETB09_04	230VBFB02_04	230VFMB29_04	230UPYB04_04	230GCEB48_04
Course Name	Wireless Sensor Network	Basics of Stock Market	Financial Services	Positive Psychology	Geospatial Tools for Environmental Analysis
Course Code	230GETB36_04	230VBFB04_05	230VFMB28_05	230USYB03_05	230GMEB52_05
Course Name	Microcontroller and Applications	Digital Banking	Basics of Merger and Acquisition	Social Inequality	3D Printing
Course Code	230GETB41_05	230VBCB08_06	230VHRB24_06	230UEEB01_06	230GRAB53_06
Course Name	Introduction to Embedded Systems	Software for Financial Accounting	Introduction to Industrial Relations	Economics	Robot Operating Systems
Course Code	230GETB34_06	230VBFB07_07	230VFMB24_07	230GCEB43_07	240GFRB55_07
Course Name	IoT and Applications	Insurance Model	Corporate Finance	Water Resource Planning and Management	Legal Aspects of Fire Safety Health and Environment




Interdisciplinary Open Course (IOC)					
Specialization	Electrical and Communication Sciences	Banking and Finance	Human Resource and Business Management	Cross-Disciplinary	
Course Code	230GETB10_03	240VBCB02_03	230GCEB58_03	230VMSM09_03	250GBTB01_05
Course Name	Fundamentals of Signals and Systems	Introduction to E-Commerce	Sustainable Development Goals and Policies	Ethics and Sustainability for Business	Bioengineering
Course Code	230GETB33_05	230VBCB04_05	230GCEB40_05	230UPYB34_05	230GCEB29_05
Course Name	EV Technology	Basics of Accounting	Intelligent Transport Systems	Psychology at Workplace	Smart Cities
Course Code	230GETB32_07	230VBCB15_07	230GCEB31_07	230VBBB25_07	230GMEB64_07
Course Name	Cyber Physical Systems	Finance for Non-Finance	E-Waste Management	Economics for Management	Smart Materials

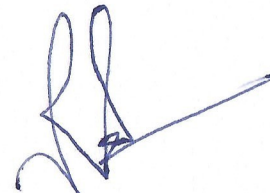
Domain Specific Honors (DSH)					
Specialization	Data Science	Cyber Security	Cloud and DevOps	Blockchain Technology	AIML
Course Code	230GCSB57_04	240GCSB74_04	240GCSB75_04	240GCSB76_04	230GAIB03_04
Course Name	Data Analytics with Python	Foundations of Cryptography	Computer Networks and Internet Protocol	Blockchain and Its Applications (MOOC)	Introduction to Machine Learning
Course Code	230GDSB97_05	230GCSB63_05	230GCSB59_05	240GCSB12_05	230GAIB84_05
Course Name	Applied Statistics	IT Applications and Data Security	Cloud Computing	Design Thinking for Block Chain	Deep Learning and Neural Networks)
Course Code	230GDSB98_05	230GCSB64_05	240GCSB20_05	240GCSB14_05	230GAIB85_05
Course Name	Descriptive Analytics	IT Network Security	Cloud Architecture & Services	Block Chain Tools	Computational Linguistics and Natural Language Processing
Course Code	230GDSB99_06	230GCSB65_06	240GCSB22_06	240GCSB15_06	230GAIB86_06
Course Name	Predictive Analytics	Ethical Hacking and Vulnerability Management	Cloud Application Development & Deployment	Solidity Programming	Pattern Recognition & Anomaly Detection
Course Code	230GDSB100_07	230GCSB66_07	240GCSB22_07	240GCSB18_07	230GAIB87_07
Course Name	Big Data Analytics	Digital Forensics and Investigation	Cloud Automation Tools & Applications	Bit Coin & Crypto Currency Technology	Applications of Machine Learning in Industries





Mandatory Learning Course (MLC#) Audit Course			
Course Code	240GCSB220_05	240GCSB221_05	240GCSB222_05
Course Name	Microservices with AI	Data Analytics using Tableau	Spring Boot
Course Code	240GCSB223_05	230UPOB02_07	
Course Name	Cloud Computing and its Applications	Introduction to Indian Constitution	

  
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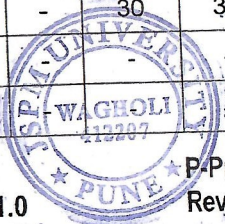
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## SEMESTER VI (LEVEL 5.5)

TYPE	COURSE		TEACHING SCHEME				EXAMINATION SCHEME AND MARKS								TOTAL	CREDITS
	CODE	COURSE NAME	Hours / Week				THEORY (Equal Weightage for CIE and ESE)			PRACTICAL (Equal Weightage for CIE and ESE)		ORAL (Equal Weightage for CIE and ESE)				
							CONTINUOUS INSEMESTER EVALUATION (100 Marks)			END SEMESTER EXAMINATION (100 / 50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)	CONTINUOUS INSEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)		
			T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)											
PCC	231GCSB102_06	Theory of Computation	2	-	-	2	30	30	40	100	-	-	-	-	100	2.5
	230GCSB87_06	Software Engineering	3	-	-	-	30	30	40	100	-	-	-	-	100	3
	250GDSB04_06	Data Science and Applications	2	-	-	-	30	30	40	50	-	-	-	-	50	2
	---	Programme Elective Course	3	-	-	-	25			75	-	-	-	-	100	3
PEC	---	Programme Elective Course	3	-	-	-	25			75	-	-	-	-	50	2
AEC	230UENB03_06	Soft Skill Development	1	-	2	-	30	30	40	50	-	-	-	-	50	2
HSSM	230UEEB19_06	Engineering Economics	1	-	2	-	30	30	40	50	-	-	-	-	50	2
MMC	---	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	50	50	50	50	100	2
VSC	230IESB03_06	Entrepreneurship	1	-	-	2	-	-	-	-	-	-	50	50	50	1.5
LC	230GCSB196_06	Software Engineering Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
	250GDSB05_06	Data Science and Applications Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
IITP/ FP/ CEP	230GCSB16_06	Internship / Field Project / Community Engagement Programme	4 to 6 weeks				-	-	-	-	-	-	50	50	50	2
<b>TOTAL</b>			<b>14</b>	<b>-</b>	<b>10</b>	<b>4</b>									<b>750</b>	<b>22</b>
DSH	---	Domain Specific Honors	3	-	-	-	30	30	40	100	-	-	-	-	100	3
LC	---	Domain Specific Honors Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
MLC#	---	Audit Course	1	-	-	-	-	-	-	50	-	-	-	-	50	1



Program Elective Course (PEC)			
Course Code	230GCSB210_05	230GAIB25_05	230GCSB53_05
Course Name	Foundations of Virtual Reality (NPTEL_MOOC)	Artificial Intelligence: Concepts and Techniques (NPTEL_MOOC)	Cyber Security and Privacy (NPTEL_MOOC)
Course Code	230GCSB54_06	230GCSB55_06	230GCSB56_06
Course Name	Advanced Computer Networks (NPTEL_MOOC)	Human Computer Interaction (NPTEL_MOOC)	Business Intelligence and Analytics (NPTEL_MOOC)

Multidisciplinary Minor Course (MMC)					
Specialization	Electrical and Communication Sciences	Banking and Finance	Human Resource and Business Management	Cross-Disciplinary	
Course Code	230GMTB01_03	230VBCB09_03	230VHRB21_03	230HFGM26_03	230GMTB52_03
Course Name	Sensors and Actuators	Financial Literacy	Current Trends in Human Resource Management	Digital Investigations and Cyber Forensics	Autotronics
Course Code	230GETB36_04	230VBFB02_04	230VFMB29_04	230UPYB04_04	230GCEB48_04
Course Name	Microcontroller and Applications	Basics of Stock Market	Financial Services	Positive Psychology	Geospatial Tools for Environmental Analysis
Course Code	230GETB41_05	230VBFB04_05	230VFMB28_05	230USYB03_05	230GMEB52_05
Course Name	Introduction to Embedded Systems	Digital Banking	Basics of Merger and Acquisition	Social Inequality	3D Printing
Course Code	230GETB34_06	230VBCB08_06	230VHRB24_06	230UEEB01_06	230GRAB53_06
Course Name	IoT and Applications	Software for Financial Accounting	Introduction to Industrial Relations	Economics	Robot Operating Systems
Course Code	230GETB09_07	230VBFB07_07	230VFMB24_07	230GCEB43_07	240GFRB55_07
Course Name	Wireless Sensor Network	Insurance Model	Corporate Finance	Water Resource Planning and Management	Legal Aspects of Fire Safety Health and Environment



Domain Specific Honors (DSH)					
Specialization	Data Science	Cyber Security	Cloud and DevOps	Blockchain Technology	AIML
Course Code	230GCSB57_04	240GCSB74_04	240GCSB75_04	240GCSB76_04	230GAIB03_04
Course Name	Data Analytics with Python	Foundations of Cryptography	Computer Networks and Internet Protocol	Blockchain and Its Applications (MOOC)	Introduction to Machine Learning
Course Code	230GDSB97_05	230GCSB63_05	230GCSB59_05	240GCSB12_05	230GAIB84_05
Course Name	Applied Statistics	IT Applications and Data Security	Cloud Computing	Design Thinking for Block Chain	Deep Learning and Neural Networks)
Course Code	230GDSB98_05	230GCSB64_05	240GCSB20_05	240GCSB14_05	230GAIB85_05
Course Name	Descriptive Analytics	IT Network Security	Cloud Architecture & Services	Block Chain Tools	Computational Linguistics and Natural Language Processing
Course Code	230GDSB99_06	230GCSB65_06	240GCSB22_06	240GCSB15_06	230GAIB86_06
Course Name	Predictive Analytics	Ethical Hacking and Vulnerability Management	Cloud Application Development & Deployment	Solidity Programming	Pattern Recognition & Anomaly Detection
Course Code	230GDSB100_07	230GCSB66_07	240GCSB22_07	240GCSB18_07	230GAIB87_07
Course Name	Big Data Analytics	Digital Forensics and Investigation	Cloud Automation Tools & Applications	Bit Coin & Crypto Currency Technology	Applications of Machine Learning in Industries

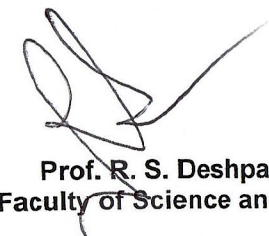
Mandatory Learning Course (MLC#) Audit Course			
Course Code	240GCSB220_06	240GCSB221_06	240GCSB222_06
Course Name	Microservices with AI	Data Analytics using Tableau	Spring Boot
Course Code	240GCSB223_06	230UPOB02_07	
Course Name	Cloud Computing and its Applications	Introduction to Indian Constitution	

Note: A Bachelor's Degree in Vocation (B. Voc.) or B. Sc. (Engg. /Tech.) will be awarded if a student exits after third year. For Exit at the end of third year the student must complete the: (Total credits = 8)

- An internship / OJT of 8 - 10 weeks (4 credits)
- Additional Course 1 (4 credits) (Vocational Skill Course (VSC) / Skill Enhancement Course (SEC))


  
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