



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 2022)

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



NEP aligned Curriculum Structure

for

B. Tech (Information Technology) Regular

(Effective from AY: 2024-25)



JSPM University Pune

FACULTY OF SCIENCE AND TECHNOLOGY

SCHOOL OF COMPUTATIONAL SCIENCES

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

COURSE STRUCTURE
(NEP 2020 Aligned)

W. E. F

2024-2025

RELEASE DATE

01/07/2024

REVISION NO.

0.0 (NEP)

SEMESTER III (LEVEL 5)

COURSE

TEACHING SCHEME

EXAMINATION SCHEME AND MARKS

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)		TOTAL	CREDITS
			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	230GMAB07_03	Ordinary Differential Equations and Multivariate Calculus	2	1	-	-	30	30	40	100	-	-	-	-	100	3
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
	230GCSB61_03	IT Infrastructure Landscape Overview	2	-	-	2	30	30	40	100	-	-	-	-	100	2.5
VEC	230USYB02_03	Professional Laws, Ethics, Values and Harmony	2	-	-	-	30	30	40	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
LC	230GCSB09_03	Data Structures Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
	230GCSB68_03	IT Infrastructure Landscape Overview Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
LLC	230HFSB80_03	Health and Nutrition	1	-	-	2	-	-	-	-	-	-	-	-	50	1
TOTAL			15	1	6	4					-	-	50	-	50	1.5
															750	20



L-Lecture
Format No.: JSPMUni/ACAD/001

T-Tutorial
Rev. No.:0.0


P-Practical Session (Laboratory)
Rev. Date:01/07/2024

EL-Experiential Learning
Page 1 of 2

Multidisciplinary Minor Course (MMC)			
Course Code	230GMTB01_03	230VBFB04_03	230GRAB55_03
Course Name	Sensors and Actuators	Digital Banking ✓	Industrial Robots
Course Code	230GETB34_03	230VBFB02_03	230GRAB53_03
Course Name	IoT and Applications	Basics of Stock Market	Robot Operating Systems
Course Code	230GETB36_03	230VBCB09_03	230GMTB52_03
Course Name	Microcontroller and Applications	Financial Literacy	Autotronics
Course Code	230GETB41_03	230VBCB08_03	240GFRB55_03
Course Name	Introduction to Embedded Systems	Software for Financial Accounting	Legal Aspects of Fire Safety Health and Environment


Interdisciplinary Open Course (IOC)				
Course Code	230HFSB16_03	230GETB33_03	230VMSM09_03	230GCEB29_03
Course Name	Biology for Engineers	EV Technology	Ethics And Sustainability for Business	Smart Cities ✓
Course Code	230GETB32_03	230VBCB15_03	230GCEB58_03	230GMEB64_03
Course Name	Cyber Physical Systems	Finance for Non-Finance	Sustainable Development Goals and Policies	Smart Materials
Course Code	230GCEB40_03	230VBCB04_03	230VBBB25_03	230VBCB04_03
Course Name	Intelligent Transport Systems	Basics of Accounting	Economics for Management	Basics of Accounting

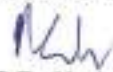

Mrs. K. S. Potdar
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Dr. Anuradha S. Deshpande
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COURSE STRUCTURE
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W. E. F

2024-25

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REVISION NO.

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SEMESTER IV (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	230GMAB08_04	Vector calculus and Partial Differential Equations	2	1	-	-	30	30	40	100	-	-	-	-	100	3	
PCC	231GCSB12_04	Object Oriented Programming	3	-	-	-	30	30	40	100	-	-	-	-	100	3	
	230GCSB26_04	Computer Networks	3	-	-	-	30	30	40	100	-	-	-	-	100	3	
AEC	230UENB02_04	Communicative Proficiency Skills	1	-	2	-	30	30	40	100	-	-	-	-	100	3	
EEC	230GCEB02_04	Environment and Sustainability	2	-	-	-	30	30	40	50	-	-	-	-	50	2	
MMC	-	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	-	-	-	-	50	2	
SEC	230GCSB17_04	Development Tools Laboratory	2	-	2	-	-	-	-	-	50	50	50	50	100	2	
LC	231GCSB14_04	Object Oriented Programming Lab	-	-	2	-	-	-	-	-	50	50	50	50	100	3	
	230GCSB34_04	Computer Networks Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
IITP/FP/CEP	230GCSB18_04	Internship / Field Project / Community Engagement Programme	4 to 6 weeks				-	-	-	-	-	50	50	-	-	50	1
TOTAL			14	1	10	4									50	2	
DSH	230GCSB63_04	IT Application & Data Security	3	-	-	-	30	30	40	100	-	-	-	-	100	3	
DSH	230GCSB64_04	IT Network Security	3	-	-	-	30	30	40	100	-	-	-	-	100	3	
LC	230GCSB70_04	IT Network Security Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1	
ILC*	-	Audit Course	1	-	-	-	-	-	-	50	-	-	-	-	50	1	
															50	1	

L-Lecture
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EL-Experiential Learning
Page 1 of 2



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

Mandatory Learning Course (MLC*) Audit Course							
Course Code	230GCSB206_04	230GCSB207_04	230GAIB101_04	230GCSB208_04	230GCSB209_04	230GDSB120_04	230UPOB02_07
Course Name	Robotic Process Automation	Selenium Automation	Gen AI	Agile Software Development	Jira and Git	Data Analytics with Python Power BI	Introduction to Indian Constitution

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

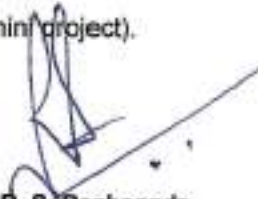
For "Exit" at the end of "Second Year" the student must complete a total of 8 additional credits.

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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SCHOOL OF COMPUTATIONAL SCIENCES

COURSE STRUCTURE (NEP 2020 Aligned)

W. E. F

2025-2026

RELEASE DATE

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

REVISION NO.

0.0 (NEP)

SEMESTER V (LEVEL 5.5)

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 (100/25 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)							
PSMC	231GMAB47_05	Discrete Mathematics with Applications for Computer Science	2	1	-	-	30	30	40	100	-	-	-	-	100	3
PCC	230GCSB86_05	Database Systems	3	-	-	2	30	30	40	100	-	-	-	-	100	3.5
	230GCSB110_05	Fundamentals of Java Programming	3	-	-	-	30	30	40	100	-	-	-	-	100	
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	230GCSB193_05	Database Systems Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
	230GCSB192_05	Fundamentals of Java Programming Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
TOTAL			16	1	8	4	-	-	-	-	50	50	-	-	50	1
DSH	230GCSB65_05	Ethical Hacking and Vulnerability Management	3	-	-	-	30	30	40	100	-	-	-	-	100	3
LC	230GCSB71_05	Ethical Hacking and Vulnerability Management Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
MLC*	---	Audit Course	1	-	-	-	-	-	-	50	-	-	-	-	50	1



L-Lecture

T-Tutorial

P-Practical Session (Laboratory)

sem (v) R

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)			
Course Code	230GMTB01_04	230GETB09_04	230GRAB55_03
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_05	230VBCB08_04	230GMTB52_04
Course Name	Introduction to Embedded Systems	Software for Financial Accounting	Autronics

Interdisciplinary Open Course (IOC)				
Course Code	250GBTB01_05	230GETB33_05	230VMSM09_03	230GCEB29_03
Course Name	Bioengineering	EV Technology	Ethics And Sustainability for Business	Smart Cities
Course Code	230GETB32_03	230VBCB15_03	230GCEB58_03	230GMEB64_03
Course Name	Cyber Physical Systems	Finance for Non-Finance	Sustainable Development Goals and Policies	Smart Materials
Course Code	230GCEB40_03	230VBCB04_03	230VB8825_03	230VBCB04_03
Course Name	Intelligent Transport Systems	Basics of Accounting	Economics for Management	Basics of Accounting



Mandatory Learning Course (MLC [®]) Audit Course							
Course Code	230GCSB206_05	230GCSB207_05	230GAIB101_05	230GCSB208_05	230GCSB209_05	230GDSB120_05	230UPOB02_07
Course Name	Robotic Process Automation	Selenium Automation	Gen AI	Agile Software Development	Jira and Git	Data Analytics with Python Power BI	Introduction to Indian Constitution


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W. E. F

2025-2026

RELEASE DATE

01/07/2025

REVISION NO.

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SEMESTER VI (LEVEL 5.5)

COURSE

TEACHING
SCHEME

EXAMINATION SCHEME AND MARKS

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)		TOTAL	CREDITS
			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)							
PCC	230GCSB51_06	Computer Algorithms	3	-	-	-	30	30	40	100	-	-	-	-	100	3
	232GCSB27_06	Operating Systems	3	-	-	2	30	30	40	100	-	-	-	-	100	3.5
PEC	---	Programme Elective Course	3	-	-	-	25			75	-	-	-	-	100	3
AEC (HSMC)	230UENB03_06	Soft Skill Development	1	-	2	-	30	30	40	50	-	-	-	-	50	2
HSSM	230UEEB19_06	Engineering Economics	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	100	2
LC	230GCSB52_06	Computer Algorithms Lab	-	-	2	-	-	-	-	-	-	-	50	50	50	1.5
	231GCSB106_06	Web Technology Lab	-	-	4	-	-	-	-	-	50	50	-	-	50	1
IITP/FP/CEP	230GCSB16_06	Internship / Field Project / Community Engagement Programme	4 to 6 weeks				-	-	-	-	-	-	50	50	50	2
TOTAL			14	-	10	4									750	22
DSH	230GCSB66_06	Digital Forensics and Investigation	3	-	-	-	30	30	40	100	-	-	-	-	100	3
LC	230GCSB72_06	Digital Forensics and Investigation Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
MLC ²	---	Audit Course	1	-	-	-	-	-	-	50	-	-	-	-	50	1



		Programme Elective Course (PEC)		
V (PEC-I)	Course Code	230GCSB210_05	230GCSB211_05	230GCSB212_05
	Course Name	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)
VI (PEC-II)	Course Code	230GCSB213_06	230GCSB214_06	230GCSB215_06
	Course Name	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)

Multidisciplinary Minor Course (MMC)				
Course Code	230GETB09_04	230GETB41_04	230GRAB55_04	230GCEB45_04
Course Name	Wireless Sensor Network	Introduction to Embedded Systems	Industrial Robots	Environmental Quality Monitoring
Course Code	230GMTB01_04	230VBFB04_04	230GMTB52_04	230USYB03_04
Course Name	Sensors and Actuators	Digital Banking	Autotronics	Social Inequality
Course Code	230GETB34_06	230VBFB02_04	230GCEB43_04	230UPYB04_04
Course Name	IoT and Applications	Basics of Stock Market	Water Resources Planning and Management	Positive Psychology


Mandatory Learning Course (MLC*) Audit Course							
Course Code	230GCSB206_06	230GCSB207_06	230GAIB101_06	230GCSB208_06	230GCSB209_06	230GDSB120_06	230UPOB02_07
Course Name	Robotic Process Automation	Selenium Automation	Gen AI	Agile Software Development	Jira and Git	Data Analytics with Python Power BI	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: (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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SEMESTER VII – SCHEME A (LEVEL 6)

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 / 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	230GCSB102_07	Theory of Computation	3	-	-	2	30	30	40	100	-	-	-	-	100	3.5		
PCC	231GCSB42_07	Cloud Technology	3	-	-	2	30	30	40	100	-	-	-	-	100	3.5		
PEC	---	Programme Elective Course	3	-	-	-	25			75	-	-	-	-	100	3		
MMC	---	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	50	50	50	50	100	2		
	---	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	50	50	50	50	100	2		
IOC	---	Interdisciplinary Open Course	2	-	-	-	30	30	40	100	-	-	-	-	100	2		
RMC	230IRMB02_07	Research Methodology, Methods and Techniques	3	-	-	-	30	30	40	100	-	-	-	-	100	3		
LC	230GAIB88_07	Python Programming Language Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1		
PROJ	230GCSB90_07	Project Phase I	-	-	2	4	-	-	-	-	-	-	50	50	50	2		
TOTAL			16	-	8	8											800	22
DSH	230GCSB67_07	Information Security Audit Monitoring and Governance	3	-	-	-	30	30	40	100	-	-	-	-	100	3		
MLC*	---	Audit Course	1	-	-	-	-	-	-	50	-	-	-	-	50	1		



Programme Elective Course (PEC)			
Course Code	230GCSB210_05	230GCSB211_05	230GCSB212_05
Course Name	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)
Course Code	230GCSB213_06	230GCSB214_06	230GCSB215_06
Course Name	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)
Course Code	230GCSB216_07	230GCSB217_07	230GCSB218_07
Course Name	NPTEL_MOOC_CSE	NPTEL_MOOC_CSE	NPTEL_MOOC_CSE

Multidisciplinary Minor Course (MMC)			
Course Code	230GETB36_04	230VBCB09_04	230GRAB55_03
Course Name	Microcontroller and Applications	Financial Literacy	Industrial Robots
Course Code	230GETB41_05	230VBF02_04	230VBF04_03
Course Name	Introduction to Embedded Systems	Basics of Stock Market	Digital Banking
Course Code	230GETB34_06	230VBCB08_04	230GRAB53_04
Course Name	IoT and Applications	Software for Financial Accounting	Robot Operating Systems
Course Code	230GETB09_07	230GMTB01_07	230GMTB52_04
Course Name	Wireless Sensor Network	Sensors and Actuators	Autotronics




Interdisciplinary Open Course (IOC)				
Course Code	231HFSB16_05	230GETB33_05	230VMSM09_03	230GCEB29_03
Course Name	Bioengineering	EV Technology	Ethics And Sustainability for Business	Smart Cities
Course Code	230GETB10_05	230VBCB15_04	230GCEB58_04	230GMEB64_04
Course Name	Fundamentals of Signals and Systems	Finance for Non-Finance	Sustainable Development Goals and Policies	Smart Materials
Course Code	230GETB32_07	230VBCB04_04	230GMEB61_07	230VBCB04_04
Course Name	Cyber Physical Systems	Basics of Accounting	Industry 4.0 and IIOT	Basics of Accounting

Mandatory Learning Course (MLC*) Audit Course			
Course Code	230GCSB206_06	230GCSB207_06	230GAIB101_06
Course Name	Robotic Process Automation	Selenium Automation	Gen AI
Course Code	230GCSB208_06	230GCSB209_06	230GDSB120_06
Course Name	Agile Software Development	Jira and Git	Data Analytics with Python and Power BI
Course Code	230UPOB02_07		
Course Name	Introduction to Indian Constitution		


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COURSE STRUCTURE
(NEP 2020 Aligned)

W. E. F

2026-2027

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SEMESTER VII – SCHEME B (LEVEL 6)

COURSE

TEACHING
SCHEME

EXAMINATION SCHEME AND MARKS

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)		TOTAL	CREDITS	
			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	230GCSB102_07	Theory of Computation	3	-	-	2	30	30	40	100	-	-	-	-	100	3.5
PCC	231GCSB42_07	Cloud Technology	3	-	-	2	30	30	40	100	-	-	-	-	100	3.5
PEC	---	Programme Elective Course	3	-	-	-	25			75	-	-	-	-	100	3
MMC	---	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	50	50	50	50	100	2
	---	Multidisciplinary Minor Course	1	-	2	-	-	-	-	-	50	50	50	50	100	2
IOC	---	Interdisciplinary Open Course	2	-	-	-	30	30	40	100	-	-	-	-	100	2
RMC	230IRMB02_07	Research Methodology, Methods and Techniques	3	-	-	-	30	30	40	100	-	-	-	-	100	3
LC	230GAIB88_07	Python Programming Language Lab	-	-	2	-	-	-	-	-	50	50	-	-	50	1
PROJ	230GCSB197_07	Seminar	-	-	2	8	-	-	-	-	-	-	50	50	50	2
TOTAL			16	-	8	12							50	50	800	22
DSH	230GCSB67_07	Information Security Audit Monitoring and Governance	3	-	-	-	30	30	40	100	-	-	-	-	100	3
MLC ^a	---	Audit Course	1	-	-	-	-	-	-	50	-	-	-	-	50	1



Programme Elective Course (PEC)			
Course Code	230GCSB210_05	230GAIB25_05	230GCSB30_05
Course Name	Foundations of Virtual Reality (NPTEL_MOOC)	Artificial Intelligence: Concepts and Techniques (NPTEL_MOOC)	Cyber Security and Privacy (NPTEL_MOOC)
Course Code	230GCSB213_06	230GCSB214_06	230GCSB215_06
Course Name	(NPTEL_MOOC)	(NPTEL_MOOC)	(NPTEL_MOOC)
Course Code	230GCSB216_07	230GCSB217_07	230GCSB218_07
Course Name	(NPTEL_MOOC)	(NPTEL_MOOC)	(NPTEL_MOOC)

Multidisciplinary Minor Course (MMC)			
Course Code	230GETB36_04	230VBCB09_04	230GRAB55_03
Course Name	Microcontroller and Applications	Financial Literacy	Industrial Robots
Course Code	230GETB41_05	230VBF02_05	230VBF04_03
Course Name	Introduction to Embedded Systems	Basics of Stock Market	Digital Banking
Course Code	230GETB34_06	230VBCB08_05	230GRAB53_04
Course Name	IoT and Applications	Software for Financial Accounting	Robot Operating Systems
Course Code	230GETB09_07	230GMTB01_07	230GMTB52_04
Course Name	Wireless Sensor Network	Sensors and Actuators	Autotronics




Interdisciplinary Open Course (IOC)			
Course Code	230VMSM09_03	230GCEB29_03	230VBCB15_03
Course Name	Ethics And Sustainability for Business	Smart Cities	Finance for Non-Finance
Course Code	250GBTB01_05	230GETB33_05	230GCEB58_05
Course Name	Bioengineering	EV Technology	Sustainable Development Goals and Policies
Course Code	230GETB32_07	230GETB10_07	230GMEB61_07
Course Name	Cyber Physical Systems	Fundamentals of Signals and Systems	Industry 4.0 and IIOT

Mandatory Learning Course (MLC ^a) Audit Course			
Course Code	230GCSB208_06	230GCSB207_06	230GAIB101_05
Course Name	Robotic Process Automation	Selenium Automation	Gen AI
Course Code	230GCSB208_06	230GCSB209_06	230GDSB120_06
Course Name	Agile Software Development	Jira and Git	Data Analytics with Python and Power BI
Course Code	230UPOB02_07		
Course Name	Introduction to Indian Constitution		


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SEMESTER VIII – SCHEME A (LEVEL 6)

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 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)							
PEC	--	Programme Elective Course	3	-	-	-	25			75	-	-	-	-	100	3
	--	Programme Elective Course	3	-	-	-	25			75	-	-	-	-	100	3
PROJ	230GCSB92_08	Project Phase II	-	-	12	24	-	-	-	-	150	150	100	100	250	10
TOTAL			6	-	12	24								450	16	



L-Lecture

Format No.: JSPMUni/ACAD/001

T-Tutorial

Rev. No.:0.0

P-Practical Session (Laboratory)

Rev. Date:01/07/2026

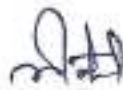
EL-Experiential Learning

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Program Elective Course (PEC)			
Course Code	230GCSB210_05	230GCSB211_05	230GCSB212_05
Course Name	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)
Course Code	230GCSB213_06	230GCSB214_06	230GCSB215_06
Course Name	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)
Course Code	230GCSB216_07	230GCSB217_07	230GCSB218_07
Course Name	NPTEL_MOOC_CSE	NPTEL_MOOC_CSE	NPTEL_MOOC_CSE
Course Code	230GCSB219_08	230GCSB220_08	230GCSB221_08
Course Name	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)
Course Code	230GCSB222_08	230GCSB223_08	230GCSB224_08
Course Name	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)	(NPTEL_MOOC_CSE)



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SEMESTER VIII – SCHEME B (LEVEL 6)

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 IN-SEMESTER EVALUATION (100/25 Marks)			END SEMESTER EXAMINATION (100 / 75 Marks)	CONTINUOUS IN-SEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)	CONTINUOUS IN-SEMESTER EVALUATION (50 Marks)	END SEMESTER EXAMINATION (50 Marks)		
							T1 (30 Marks)	T2 (30 Marks)	Assignments (40 Marks)							
PEC	---	Programme Elective Course	3	-	-	-	25			75	-	-	-	-	100	3
PEC	---	Programme Elective Course	3	-	-	-	25			75	-	-	-	-	100	3
PROJ	230GCSB198_08	Internship with Project	-	-	10	20	-	-	-	-	100	100	150	150	250	10
TOTAL			6	-	10	20								450	16	




Interdisciplinary Open Course (IOC)			
Course Code	230VMSM09_03	230GCEB29_03	230VBCB15_03
Course Name	Ethics And Sustainability for Business	Smart Cities	Finance for Non-Finance
Course Code	250GBTB01_05	230GETB33_05	230GCEB58_05
Course Name	Bioengineering	EV Technology	Sustainable Development Goals and Policies
Course Code	230GETB32_07	230GETB10_07	230GMEB61_07
Course Name	Cyber Physical Systems	Fundamentals of Signals and Systems	Industry 4.0 and IIOT

Mandatory Learning Course (MLC*) Audit Course			
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Course Name	Robotic Process Automation	Selenium Automation	Gen AI
Course Code	230GCSB208_06	230GCSB209_06	230GDSB120_06
Course Name	Agile Software Development	Jira and Git	Data Analytics with Python and Power BI
Course Code	230UPOB02_07		
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