

Dr. Vasanttraodada Patil Shetkari Shikshan Mandal's
Padmabhooshan Vasanttraodada Patil Institute of Technology,
Budhgaon, Sangli (MS) – 416304
(An Autonomous Institute)

Affiliated to
Dr. Babasaheb Ambedkar Technological University,
Lonere, Raigad

(Accredited by NAAC)



Department of Computer Science and Engineering

Structure Undergraduate Degree Programme

B. Tech. in Computer Science and Engineering

In accordance with National Education Policy (NEP – 2020)

w. e. f.
Academic Year: 2026-27



Dr. Vasantodada Patil Shetkari Shikshan Mandal's
**PADMABHOOSHAN VASANTODADA PATIL INSTITUTE OF
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Department of Computer Science and Engineering

Curriculum Structure and Evaluation Scheme

(Academic Year 2026-27 Onwards)

The Institute's Vision and Mission

Vision:

“To be a premier autonomous institute known for academic excellence, research innovation, and transformative engineering education.”

Mission:

Mission 1: Academic Excellence

Providing quality engineering education through an outcome-based curriculum, effective teaching– learning processes, and continuous academic improvement.

Mission 2: Research and Innovation

Promoting a strong research and innovation culture by encouraging faculty and students to engage in research projects, publications, patents, and interdisciplinary collaborations.

Mission 3: Industry-Oriented Learning

Strengthening industry–institute collaboration through internships, industry-supported laboratories, expert lectures, and real-world engineering projects to enhance employability.

Mission 4: Holistic and Ethical Development

Developing competent engineers with professional ethics, leadership qualities, lifelong learning ability, and commitment to societal and sustainable development.


Mrs. D. D. Dhokate
H.O.D.


Dr. K. K. Pandeyaji
Dean Academics


Dr. S. S. Mohite
Director





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Department Vision and Mission are as follows:

Vision:

“To be a center of excellence in computer science and engineering to foster research innovation, strong industry collaboration and transformative education to produce competent, ethical and socially responsible software professionals.”

Mission:

DM1: (Professional Career):

Providing high-quality computer science education through practical learning and an outcome-based curriculum.

DM 2: (Research & Innovation):

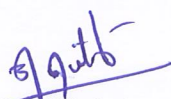
Creating a strong research ecosystem that encourages the development of innovative software solutions.

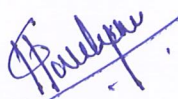
DM 3: (Leadership, Ethics, and Social Awareness):

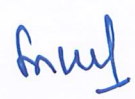
Enhancing practical knowledge through real-world projects and active industry interaction.

DM 4: (Lifelong Learning and Entrepreneurship):

Nurturing ethical and socially responsible computer engineers with leadership qualities who leverage technology to address societal and environmental challenges.


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Programme Educational Objectives (PEOs) are as follows:

PEO1 (Professional Career)

Graduates will establish successful careers in computing and allied domains by applying strong technical knowledge, problem-solving abilities, and practical skills to address industry and societal needs.

PEO2 (Research and Innovation)

Graduates will pursue research, innovation, higher studies, and professional development to develop sustainable and effective solutions for emerging technological challenges.

PEO3 (Leadership, Ethics, and Social Responsibility)

Graduates will demonstrate leadership, teamwork, ethical values, and social responsibility while developing technology-driven solutions that contribute to societal well-being.

PEO4 (Lifelong Learning and Entrepreneurship)

Graduates will engage in lifelong learning, professional growth, or entrepreneurial endeavors by continuously upgrading their knowledge and adapting to evolving technologies.


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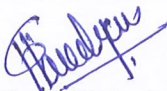


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Knowledge and Attitude Profile (WK)

- WK1:** A systematic, theory-based understanding of the natural sciences applicable to the discipline and awareness of relevant social sciences.
- WK2:** Conceptually-based mathematics, numerical analysis, data analysis, statistics and formal aspects of computer and information science to support detailed analysis and modelling applicable to the discipline.
- WK3:** A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline.
- WK4:** Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline; much is at the forefront of the discipline.
- WK5:** Knowledge, including efficient resource use, environmental impacts, whole-life cost, re-use of resources, net zero carbon, and similar concepts, that supports engineering design and operations in a practice area.
- WK6:** Knowledge of engineering practice (technology) in the practice areas in the engineering discipline.
- WK7:** Knowledge of the role of engineering in society and identified issues in engineering practice in the discipline, such as the professional responsibility of an engineer to public safety and sustainable development.
- WK8:** Engagement with selected knowledge in the current research literature of the discipline, awareness of the power of critical thinking and creative approaches to evaluate emerging issues.
- WK9:** Ethics, inclusive behaviour and conduct. Knowledge of professional ethics, responsibilities, and norms of engineering practice. Awareness of the need for diversity by reason of ethnicity, gender, age, physical ability etc. with mutual understanding and respect, and of inclusive attitudes.


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Programme Outcome (POs & PSOs)

- PO1: Engineering Knowledge:** Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization to develop to the solution of complex engineering problems (WK1 to WK4).
- PO2: Problem Analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)
- PO3: Design/Development of Solutions:** Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)
- PO4: Conduct Investigations of Complex Problems:** Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).
- PO5: Engineering Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)
- PO6: The Engineer and The World:** Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, & WK7).
- PO7: Ethics:** Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)
- PO8: Individual and Collaborative Team work:** Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.
- PO9: Communication:** Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences
- PO10: Project Management and Finance:** Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.
- PO11: Life-Long Learning:** Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)


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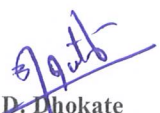
Programme Specific Outcome (PSOs)

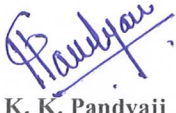
PSO1: Analyze and acquire programming skills, applicable for Information procession, Data Science, Web designing, Artificial Intelligence, Operating system and Networking applications.

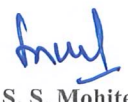
PSO2: Develop systems by integrating software and hardware.

Legends Used

<i>L</i>	- Lecture Hours / Week
<i>T</i>	- Tutorial Hours / Week
<i>P</i>	- Practical Hours / Week
<i>CA</i>	- Continuous Assessment
<i>ISE 1</i>	- In Semester Evaluation – 1
<i>ISE 2</i>	- In Semester Evaluation – 2
<i>ESE</i>	- End Semester Examination
<i>MOOC</i>	- Massive Open Online Course
<i>NPTEL</i>	- National Programme on Technology Enhanced Learning
<i>FY</i>	- First Year
<i>SY</i>	- Second Year
<i>TY</i>	- Third Year
<i>B.Tech</i>	- Bachelor of Technology
<i>MDM</i>	- Multidisciplinary Minor
<i>OE</i>	- Open Elective


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**Semester-wise Credit distribution for
 Four Year UG Engineering Programme in CSE (One Major, One Minor)**

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	8	8	--	--	--	--	--	--	16
Engineering Science Course		6	9	4	--	--	--	--	--	19
Programme Core Courses (PCC)	Program Courses	--	--	12	15	12	16	9	3	67
Programme Elective Courses (PEC)		--	--	--	--	3	3	3	3	12
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	--	--	3	3	3	3	2	--	14
Open Elective (OE) Other than particular program		--	--	--	2	2	--	--	--	4
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	1	2	--	1	--	2	--	--	6
Ability Enhancement Course (AEC-01, AEC-02)	Humanities Social Science and Management (HSSM)	3	--	--	1	--	--	--	--	4
Entrepreneurship / Economics / Management Courses		--	--	2	--	1	--	3	--	6
Indian Knowledge System (IKS)		2	--	--	--	--	--	--	--	2
Value Education Course (VEC)		--	--	2	2	--	--	--	--	4
Research Methodology	Experimental Learning Courses	--	--	--	--	--	--	2	--	2
Comm. Engg. Project (CEP) / Field Project (FP)		--	--	--	--	1	--	--	--	1
Project		--	--	--	--	--	--	4	2	6
Internship / OJT		--	--	--	--	--	--	--	10	10
Co-curricular Courses (CC)	Liberal Learning Courses	--	1	--	--	--	--	--	--	1
Total Credits (Major)		20	20	23	24	22	24	23	18	174

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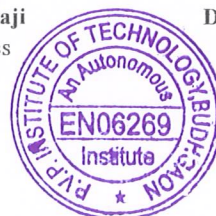
Distribution of Credits:

Course Category	Number of Subjects	Credit as per PVPIT
Humanities, Social Science, and Management Courses + IKS(1)+VEC(2)	08	16
Basic Science Course (BSC)	04	16
Engineering Science Course (ESC)	05	19
Professional Core Course (PCC)	28	67
Professional Elective Course (PEC)	04	12
Open Elective Course (OEC)	02	04
Project work, Seminar/cep, and Internship in industry or elsewhere (PrSI) +RM	05	19
Mandatory Courses [Environmental Sciences, Induction Program , Indian Constitution, Essence of Indian Knowledge Tradition] (AUC) +CC	01	01
*VSEC	04	06
Total Credit Point		160
Minor Courses	05	14
Honours Courses	--	--


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S.Y. B. Tech Semester III Computer Science and Engineering

Course Code	Course Name	Teaching Scheme				Evaluation Scheme					TOTAL
		L	T	P	Credit	Scheme	Theory		Practical		
							Max	Minimum Marks for Passing	Max	Minimum Marks for Passing	
0CSES201	Numerical Computational Methods	3	1	0	4	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPCC202	Discrete Mathematics	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPCC203	Data Structures	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPCC204	Digital Logic Design and Microprocessor	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSMDM205	MDM -I	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSVEC206	Universal Human Values	2	0	0	2	ISE	50	20	-	-	50
0CSHSSM207	Principles of Management	2	0	0	2	ISE	50	20	-	-	50
0CSPCC208	Data Structures Laboratory	0	0	2	1	ISE	-	-	50	20	50
						ESE	-	-	50	20	50
0CSPCC209	Python Programming Lab	0	0	2	1	ISE	-	-	50	20	50
						ESE			50	20	50
0CSPCC210	Digital Logic Design and Microprocessor Laboratory	0	0	2	1	ISE	-	-	50	20	50
TOTAL		19	1	6	23	TOTAL MARKS					850
Total Contact Hours Per Week		26									


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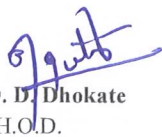
Curriculum Structure and Evaluation Scheme

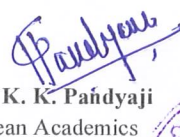
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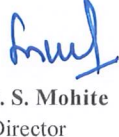
Course Category	BSC	ESC	PCC	PEC	MDM	OE	VSEC	AEC	HSSM	IKS	VEC	RM	CEP	PR	OJT	CC	Total
Credit	-	4	12	-	3	-	-	-	2	-	2	-	-	-	-	-	23
Cumulative	16	19	12	-	3	-	3	3	2	2	2	-	-	-	-	1	63

Multidisciplinary Minor offered by Computer Science and Engineering

MDM-I (SEM – III)	0CSMDM205	Network Security
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S.Y. B.Tech Semester IV Computer Science and Engineering

Course Code	Course Name	Teaching Scheme				Evaluation Scheme					Total
		L	T	P	Credit	Scheme	Theory		Practical		
							Max	Minimum Marks for Passing	Max	Minimum Marks for Passing	
0CSPCC251	Design Analysis of Algorithm	3	1	0	4	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPCC252	Computer Architecture and Organisation	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPCC253	Database Engineering	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPCC254	Object oriented Programming	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSMDM255	MDM -II	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSOE256	Open Elective -I	2	0	0	2	ISE	50	20	-	-	50
0CSAEC257	Soft Skills	0	0	2	1	ISE	25	10	-	-	25
0CSVEC258	Environmental Science	2	0	0	2	ISE	50	20	-	-	50
0CSVSEC259	Computational Lab	0	0	2	1	ISE	-	-	25	10	25
0CSPCC260	Database Engineering Lab	0	0	2	1	ISE	-	-	50	20	50
						ESE	-	-	50	20	50
0CSPCC261	Object oriented Programming Laboratory	0	0	2	1	ISE	-	-	50	20	50
						ESE	-	-	50	20	50
TOTAL		19	1	8	24	TOTAL MARKS					850
Total Contact Hours Per Week		28									

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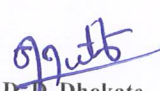
Course Category	BSC	ESC	PCC	PEC	MDM	OE	VSEC	AEC	HSSM	IKS	VEC	RM	CEP	PR	OJT	CC	Total
Credit	-	-	15	-	3	2	1	1	-	-	2	-	-	-	-	-	24
Cumulative	16	19	27	-	6	2	4	4	2	2	4	-	-	-	-	1	87

Multidisciplinary Minor offered by Computer Science and Engineering

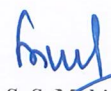
MDM-II (SEM – IV)	0CSMDM255	Fundamentals of Cryptography
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Open Elective-I offered by Computer Science and Engineering

OE-I (SEM - IV)	0CSOE256	Information Security
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T.Y. B.Tech Semester V Computer Science and Engineering

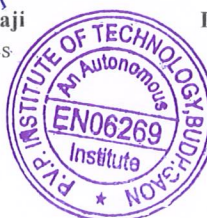
Course Code	Course Name	Teaching Scheme				Evaluation Scheme					TOTAL
		L	T	P	Credit	Scheme	Theory		Practical		
							Max	Minimum Marks for Passing	Max	Minimum Marks for Passing	
0CSPCC301	Computer Networks	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPCC302	Operating System	3	1	0	4	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPCC303	Java Programming	2	0	0	2	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPEC304	Programme Elective Course - I	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSMDM305	MDM-III	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSOE306	Open Elective - II	2	0	0	2	ISE	50	20	-	-	50
0CSHSSM307	Entrepreneurship Development	1	0	0	1	ISE	50	20	-	-	50
0CSPCC308	Full Stack Development	1	0	2	2	ISE	-	-	50	20	50
						ESE			50	20	50
0CSPCC309	Java Programming Laboratory	0	0	2	1	ISE	-	-	50	20	50
						ESE			50	20	50
0CSCEP310	Mini Project	0	0	2	1	ISE	-	-	50	20	50
TOTAL		18	1	6	22	TOTAL MARKS					850
Total Contact Hours Per Week		25									

Course Category	BSC	ESC	PCC	PEC	MDM	OE	VSEC	AEC	HSSM	IKS	VEC	RM	CEP	PR	OJT	CC	Total
Credit	-	-	12	3	3	2	-	-	1	-	-	-	1	-	-	-	22
Cumulative	16	19	39	3	9	4	4	4	3	2	4	-	1	-	-	1	109

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Curriculum Structure and Evaluation Scheme
(Academic Year 2026-27 Onwards)

Multidisciplinary Minor offered by Computer Science and Engineering

MDM-III (SEM – V)	0CSMDM305	Cloud Security
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Open Elective – II offered by Computer Science and Engineering

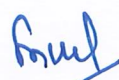
OE-II (SEM – V)	0CSOE306	Ethical Hacking
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Programme Elective Course - I

SEM - V	0CSPEC304A	Probability and Statistics
	0CSPEC304B	Computer Vision
	0CSPEC304C	Fundamentals of Block chain Technology


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T.Y. B.Tech Semester VI Computer Science and Engineering

Course Code	Course Name	Teaching Scheme				Evaluation Scheme					Total
		L	T	P	Credit	Scheme	Theory		Practical		
							Max	Minimum Marks for Passing	Max	Minimum Marks for Passing	
0CSPCC351	Machine Learning	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPCC352	Software Engineering	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPCC353	Cryptography and Cyber Security	3	1	0	4	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPCC354	Internet Of Things	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPEC355	Programme Elective Course - II	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSMDM356	MDM-IV	3	0	0	3	ISE	50	20	-	-	50
0CSVSEC357	Mini Project	0	0	4	2	ISE			50	20	50
0CSPCC358	Machine Learning Laboratory	0	0	2	1	ISE			50	20	50
						ESE			50	20	50
0CSPCC359	Internet Of Things Laboratory	0	0	2	1	ISE			50	20	50
						ESE	-	-	50	20	50
0CSPCC360	Software Engineering	0	0	2	1	ISE	-	-	50	20	50
TOTAL		18	1	10	24	TOTAL MARKS					850
Total Contact Hours Per Week		29									

Course Category	BSC	ESC	PCC	PEC	MDM	OE	VSEC	AEC	HSSM	IKS	VEC	RM	CEP	PR	OJT	CC	Total
Credit	-	-	16	3	3	-	2	-	-	-	-	-	-	-	-	-	24
Cumulative	16	19	55	6	12	4	6	4	3	2	4	-	1	-	-	1	133

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Curriculum Structure and Evaluation Scheme

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Multidisciplinary Minor offered by Computer Science and Engineering

MDM-IV (SEM – VI)	0CSMDM356	Cyber Forensics
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Programme Elective Course-II

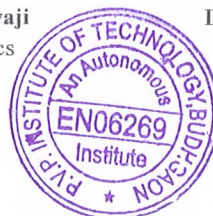
SEM – VI	0CSPEC355A	Data Analytics
	0CSPEC355B	Neural Networks
	0CSPEC355C	Crypto currency and Digital Finance

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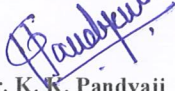
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 Curriculum Structure and Evaluation Scheme
 (Academic Year 2026-27 Onwards)

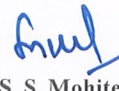
Final Year B.Tech Semester VII Computer Science and Engineering

Course Code	Course Name	Teaching Scheme				Evaluation Scheme					TOTAL
		L	T	P	Credit	Scheme	Theory		Practical		
							Max	Minimum Marks for Passing	Max	Minimum Marks for Passing	
0CSPCC401	Cloud Computing and DevOps	3	1	0	4	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPCC402	Deep Learning	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPEC403	Programme Elective Course - III	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSHSSM404	Project Management	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSMDM405	MDM-V	0	0	4	2	ISE	-	-	50	20	50
0CSRMA406	Research Methodology	2	0	0	2	ISE	-	-	50	20	50
0CSPCC407	Cloud Computing Laboratory	0	0	2	1	ISE	-	-	50	20	50
						ESE			50	20	50
0CSPCC408	Deep Learning Laboratory	0	0	2	1	ISE	-	-	50	20	50
0CSPR409	Project Phase – I	0	0	8	4	ISE	-	-	100	40	100
						ESE			100	40	100
TOTAL		14	1	16	23	TOTAL MARKS					850
Total Contact Hours Per Week		31									

Course Category	BSC	ESC	PCC	PEC	MDM	OE	VSEC	AEC	HSSM	IKS	VEC	RM	CEP	PR	OJT	CC	Total
Credit	-	-	9	3	2	-	-	-	3	-	-	2	-	4	-	-	23
Cumulative	16	19	64	9	14	4	6	4	6	2	3	2	1	4	-	1	156


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Curriculum Structure and Evaluation Scheme

(Academic Year 2026-27 Onwards)

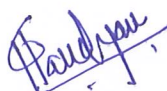
Multidisciplinary Minor offered by Computer Science and Engineering

MDM-V (SEM – VII)	0CSMDM405	Mini Project
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Programme Elective Course- III

SEM - VII	0CSPEC403A	Data Visualization
	0CSPEC403B	Natural Language Processing
	0CSPEC403C	Blockchain Platform and Framework


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Department of Computer Science and Engineering

Curriculum Structure and Evaluation Scheme

(Academic Year 2026-27 Onwards)

Final Year B. Tech Semester VIII Computer Science and Engineering

Course Code	Course Name	Teaching Scheme				Evaluation Scheme					Total
		L	T	P	Credit	Scheme	Theory		Practical		
							Max	Minimum Marks for Passing	Max	Minimum Marks for Passing	
0CSPCC451	MOOC Course – I	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPEC452	MOOC Course – II	3	0	0	3	ISE 1	10	40*	-	-	100
						MSE	20				
						ISE 2	10				
						ESE	60				
0CSPR453	Project Phase – II	0	0	4	2	ISE	-	-	50	20	50
						ESE	-		50	20	50
0CSOJT454	Internship / OJT	0	0	20	10	ISE	-		100	40	100
						ESE	-		100	40	100
TOTAL		6	0	24	18	TOTAL MARKS					500
Total Contact Hours Per Week		30									

Course Category	BSC	ESC	PCC	PEC	MDM	OE	VSEC	AEC	HSSM	IKS	VEC	RM	CEP	PR	OJT	CC	Total
Credit	-	-	3	3	-	-	-	-	-	-	-	-	-	2	10	-	18
Cumulative	16	19	67	12	14	4	6	4	6	2	4	2	1	6	10	1	174

*Note: The list of online courses aligned with the curriculum and offered through platforms such as NPTEL, SWAYAM, MOOCs and other approved platforms shall be updated periodically.

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Curriculum Structure and Evaluation Scheme
(Academic Year 2026-27 Onwards)

Open Elective List

OE	Course Code	Open Elective	Semester	Credits
I	0CSOE256	Information Security	IV	2
II	0CSOE306	Ethical Hacking	V	2

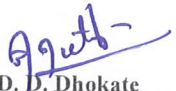
Multidisciplinary Minor Bucket offered by Computer Science and Engineering

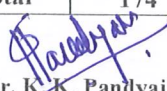
MDM	Course Code	Multidisciplinary Minor	Semester	Credits
I	0CSMDM205	Network security	III	3
II	0CSMDM255	Fundamentals of Cryptography	IV	3
III	0CSMDM305	Cloud Security	V	3
IV	0CSMDM356	Cyber Forensics	VI	3
V	0CSMDM405	Mini Project	VII	2

Program Elective Course

Sr. No.	Stream Name	Program Elective Course – I (0CSPEC304)	Program Elective Course – II (0CSPEC355)	Program Elective Course – III (0CSPEC403)	Program Elective Course – IV (0CSPEC452)
Class $\Rightarrow$		B. Tech (Sem – V)	B. Tech (Sem – VI)	B. Tech (Sem – VII)	B. Tech (Sem –VIII)
01	Data Science and Analytics	Probability and Statistics	Data Analytics	Data Visualization	Data Mining and Warehousing
02	Artificial Intelligence	Computer Vision	Neural Networks	Natural Language Processing	Pattern Recognition
03	Block-chain Technology	Fundamentals of Blockchain Technology	Cryptocurrency and Digital Finance	Blockchain Platform and Framework	Blockchain Security and Privacy

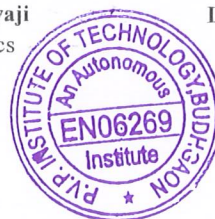
Semester	Credit
I	20
II	20
III	23
IV	24
V	22
VI	24
VII	23
VIII	18
Total	174


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Curriculum Structure and Evaluation Scheme

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Multidisciplinary Minor (MDM) Bucket List

Sr. No.	MDM Track	MDM Course (Sem III-VII)	Department offering this MDM Track	Department may opt this MDM Track	Department may not opt this MDM Track
1	Artificial Intelligence	Introduction to AI	Artificial Intelligence and Data Science	• Chemical Engg. • Civil Engg. • Electronics and Telecomm. • Instrumentation and Control • Mechanical Engg.	• Artificial Intelligence and Data Science • Computer Science & Engg. • Electrical and Computer Engg. • Electronics and Computer Sci,
		Prompt Engineering			
		Introduction to Machine Learning			
		Generative AI			
		Mini Project			
2	Construction Management	Engineering Management	Civil Engineering	• Artificial Intelligence and Data Science • Chemical Engg. • Computer Science & Engg. • Electrical and Computer Engg. • Electronics and Computer Sci, • Electronics and Telecomm. • Instrumentation and Control • Mechanical Engg.	Civil Engineering
		Supply Chain Management			
		Engineering Procurement and Construction Contract			
		Project Management			
		Mini Project			


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Sr. No.	MDM Track	MDM Course (Sem III-VII)	Department offering this MDM Track	Department may opt this MDM Track	Department may not opt this MDM Track
3	Energy and Environment	Environmental Engineering & Pollution Control	Chemical Engineering	- Artificial Intelligence and Data Science - Civil Engg. - Computer Science & Engg - Electrical and Computer Engg. - Electronics and Computer Sci. - Electronics and Telecomm. - Instrumentation and Control - Mechanical Engg.	Chemical Engineering
		Introduction to Sustainable Energy Systems			
		Energy Conservation and Recovery			
		Carbon Capture, Utilization, and Storage (CCUS)			
		Mini Project			
4	Cyber Security	Network Security	Computer Science and Engineering	- Artificial Intelligence and Data Science - Chemical Engg. - Civil Engg. - Electrical and Computer Engg. - Electronics and Computer Sci. - Electronics and Telecomm. - Instrumentation and Control - Mechanical Engg.	Computer Science and Engineering
		Fundamentals of Cryptography			
		Cloud security			
		Cyber forensics			
		Mini Project			

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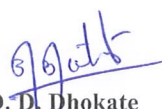
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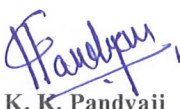
Department of Computer Science and Engineering

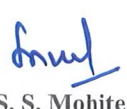
Curriculum Structure and Evaluation Scheme

(Academic Year 2026-27 Onwards)

Sr. No.	MDM Track	MDM Course (Sem III-VII)	Department offering this MDM Track	Department may opt this MDM Track	Department may not opt this MDM Track
5	Electric Vehicles	Fundamental of Electric Vehicles	Electrical and Computer Engineering	• Artificial Intelligence and Data Science • Chemical Engg. • Civil Engg. • Computer Science & Engg • Electronics and Computer Sci. • Electronics and Telecomm. • Instrumentation and Control • Mechanical Engg.	Electrical and Computer Engineering
		EV Energy and Charging Systems			
		Electric Drives and Motor Control for EVs			
		Sustainable Mobility and Emerging EV Technologies			
		Mini Project			
6	Internet of Things	Fundamentals of IoT	Electronics and Computer Science	• Chemical Engg. • Civil Engg • Instrumentation and Control • Mechanical Engg.	• Artificial Intelligence and Data Science • Computer Science & Engg. • Electrical and Computer Engg. • Electronics and Computer Sci. • Electronics and Telecomm.
		IoT Technologies and Protocols			
		Industrial IoT			
		IoT System Design			
		Mini Project			


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