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**VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR**

autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

**Tech. Scheme of Examination & Syllabus 2025-26**

**COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)**

**Annexure – I**

**CREDIT FRAMEWORK STRUCTURE**

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	7	7							14
Engineering Science Course		6	6							12
Program Core Course (PCC)	Program Courses	2	2	13	10	7	4	6		44
Program Elective Course (PEC)						4	6	6	4	20
Multidisciplinary Minor (MDM)	Multidisciplinary Courses			2	3	3	3	3		14
Open Elective (OE) Other than a particular program						2	3	3		08
Vocational and Skill Enhancement Course (VSEC)	Skill Courses		2	1	1	2	2			08
Ability Enhancement Course (AEC -01, AEC-02)	Humanities Social Science and Management (HSSM)	1	1			2				04
Entrepreneurship/Economics/Management Courses				2	2					04
Indian Knowledge System (IKS)			2							02
Value Education Course (VEC)					2	2				04
Research Methodology	Experiential Learning Courses								4	04
Comm. Engg. Project (CEP)/ Field Project (FP)					2					02
Project							2	2		04
Internship/OJT									12	12
Co-curricular Courses (CC)	Liberal Learning Courses	2	2							04
<b>Total Credits (Major)</b>		<b>20</b>	<b>160</b>							

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**COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)**

**GROUP I: SEMESTER I**

Sr No	Course Category	CourseCode	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	BSC	25CS101T	Engineering Chemistry	2	-	-	2	10	10	30	50	23	1.5
2	BSC	25CS101P	Engineering Chemistry Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	25CS102T	Linear Algebra and Calculus	3	-	-	3	20	20	60	100	45	3
4	BSC	25CS102P	Linear Algebra and Calculus Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	25CS103T	Logic Building using 'C'	2	-	-	2	10	10	30	50	23	1.5
6	ESC	25CS103P	Logic Building using "C" Lab	-	-	2	1	-	25	25	50	25	-
7	ESC	25CS104T	Basics of Computer Architecture	3	-	-	3	20	20	60	100	45	3
8	PCC	25CS105P	Computer Workshop - I	-	-	4	2	-	25	25	50	25	-
9	AEC	25CS106P	Business Communication Skills - I Lab	-	-	2	1	-	25	25	50	25	-
10	IKS	25CS107T	Indian Knowledge Systems #	2	-	-	2	10	10	30	50	23	1.5
11	CC	25CS108T	Co-curricular Courses - I	2	-	-	2	-	50	-	50	25	-
<b>Total</b>				<b>14</b>		<b>12</b>	<b>20</b>	<b>70</b>	<b>245</b>	<b>335</b>	<b>650</b>		

**Note: # Course should be conducted online through NPTEL**

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**COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)**

**GROUP I: SEMESTER II**

Sr No	Course Category	CourseCode	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	BSC	25ES201T	Engineering Physics and Materials Science	2	-	-	2	10	10	30	50	23	1.5
2	BSC	25ES201P	Engineering Physics and Materials Science Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	25ES202T	Statistics and Probability	3	-	-	3	20	20	60	100	45	3
4	BSC	25ES202P	Statistics and Probability Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	25CS203T	Programming in Python	2	-	-	2	10	10	30	50	23	1.5
6	ESC	25CS203P	Programming in Python Lab	-	-	2	1	-	25	25	50	25	-
7	ESC	25CS204T	Introduction to Computer Network	3	-	-	3	20	20	60	100	45	3
8	PCC	25CS205P	Computer Workshop – II	-	-	4	2	-	25	25	50	25	-
9	AEC	25ES206P	Business Communication Skills – II Lab	-	-	2	1	-	25	25	50	25	-
10	SEC	25ES207T	Design Thinking #	2	-	-	2	10	10	30	50	23	1.5
11	CC	25ES208T	Co-curricular Courses – II	2	-	-	2	-	50	-	50	25	-
<b>Total</b>				<b>14</b>		<b>12</b>	<b>20</b>	<b>70</b>	<b>245</b>	<b>335</b>	<b>650</b>		

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### COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)

#### SEMESTER III

Sr No	Course Category	CourseCode	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	25CS301T	Applied Mathematics - III	2	-	-	2	10	10	30	50	23	1.5
2	PCC	25CS302T	Data Structures	3	-	-	3	20	20	60	100	45	3
3	PCC	25CS302P	Data Structures Lab	-	-	2	1	-	25	25	50	25	-
4	PCC	25CS303T	Operating System	3	--	-	3	20	20	60	100	45	3
5	PCC	25CS303P	Operating System Lab	-	-	2	1	-	25	25	50	25	-
6	PCC	25CS304T	Information Security Fundamentals	2	-	-	2	10	10	30	50	23	1.5
7	PCC	25CS305P	Cryptography Lab	-	-	2	1	-	25	25	50	25	-
8	VEC	25ES301T	Constitution of India	2	-	-	2	10	10	30	50	23	1.5
9	HSSM	25ES302T	Fundamentals of Entrepreneurship	2	-	-	2	10	10	30	50	23	1.5
10	SEC	25CS341P	Career Development - I	-	-	2	1	-	50	-	50	25	-
11	MDM	25CS331M	MDM - I (Refer MDM basket)	2	-	-	2	10	10	30	50	23	1.5
<b>Total</b>				<b>16</b>		<b>8</b>	<b>20</b>	<b>90</b>	<b>215</b>	<b>345</b>	<b>650</b>		

**Note: Any one PCC to be conducted online through NPTEL. The course will be notified one month prior to commencement of semester.**

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**COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)**

**SEMESTER IV**

Sr No	Course Category	CourseCode	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	25CS401T	Theory of Computation	3	-	-	3	20	20	60	100	45	3
2	PCC	25CS402T	Database Management Systems	3	-	-	3	20	20	60	100	45	3
3	PCC	25CS402P	Database Management Systems Lab	-	-	2	1	-	25	25	50	25	-
4	PCC	25CS403T	Basics of Ethical Hacking	2	-	-	2	10	10	30	50	23	1.5
5	PCC	25CS403P	Basics of Ethical Hacking Lab	-	-	2	1	-	25	25	50	25	-
6	VEC	25ES401T	Environmental Science	2	-	-	2	10	10	30	50	23	1.5
7	HSSM	25ES402T	Fundamentals of Economics and Management	2	-	-	2	10	10	30	50	23	1.5
8	SEC	25CS441P	Career Development – II	-	-	2	1	-	50	-	50	25	-
9	CEP	25CS404P	Mini Project*	-	-	4	2	-	50	-	50	25	-
10	MDM	25CS431M	MDM - II (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>15</b>		<b>10</b>	<b>20</b>	<b>90</b>	<b>240</b>	<b>320</b>	<b>650</b>		

\* Field Project or Community engagement project in the major discipline

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**COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)**

**SEMESTER V**

Sr No	Course Category	CourseCode	Course Title	Hoursper Week			Credits	Maximum Marks				Minimum Passing Marks	Duration
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	25CS501T	Design and Analysis of Algorithm	3	-	-	3	20	20	60	100	45	3
2	PCC	25CS501P	Design and Analysis of Algorithm Lab	-	-	2	1	-	25	25	50	25	-
3	PCC	25CS502T	Security Strategies in Windows and Linux	2	-	-	2	10	10	30	50	23	1.5
4	PCC	25CS503P	Computer Lab - II	-	-	2	1	-	25	25	50	25	-
5	PEC	25CS504T	Professional Elective - I	3	-	-	3	20	20	60	100	45	3
6	PEC	25CS504P	Professional Elective – I Lab	-	-	2	1	-	25	25	50	25	-
7	VSC	25CS506P	Technical Skill Development - I	-	-	4	2	-	50	-	50	25	-
8	AEC	25CS541P	English for Engineers	-	-	4	2	-	25	25	50	25	-
9	MDM	25CS531M	MDM – III (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
10	OE	25CS561O	Open Elective – I (Refer OE basket)	2	-	-	2	10	10	30	50	23	1.5
<b>Total</b>				<b>13</b>		<b>14</b>	<b>20</b>	<b>80</b>	<b>230</b>	<b>340</b>	<b>650</b>		

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### COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)

#### SEMESTER VI

Sr No	Course Category	CourseCode	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	25CS601T	Software Engineering and Project Management	3	-	-	3	20	20	60	100	45	3
2	PCC	25CS601P	Software Engineering and Project Management Lab	-	-	2	1	-	25	25	50	25	-
3	PEC	25CS602T	Professional Elective - II	3	-	-	3	20	20	60	100	45	3
4	PEC	25CS602P	Professional Elective – II Lab	-	-	2	1	-	25	25	50	25	-
5	PEC	25CS603T	Professional Elective – III	2	-	-	2	10	10	30	50	23	1.5
6	VSC	25CS604P	Technical Skill Development -II	-	-	4	2	-	50	-	50	25	-
7	PROJ	25CS605P	Project – I	-	-	4	2	-	50	50	100	50	-
8	MDM	25CS631M	MDM – IV (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
9	OE	25CS661O	Open Elective – II (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>14</b>		<b>12</b>	<b>20</b>	<b>90</b>	<b>240</b>	<b>330</b>	<b>700</b>		

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**COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)**

**SEMESTER VII**

Sr No	Course Category	CourseCode	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	25CS701T	Cyber Forensics	3	-	-	3	20	20	60	100	45	3
2	PCC	25CS701P	Cyber Forensics Lab	-	-	2	1	-	25	25	50	25	-
3	PCC	25CS702T	Threats and Malware Analysis	2	-	-	2	10	10	30	50	23	1.5
4	PEC	25CS703T	Professional Elective – IV	3	-	-	3	20	20	60	100	45	3
5	PEC	25CS703P	Professional Elective – IV Lab	-	-	2	1	-	25	25	50	25	-
6	PEC	25CS704T	Professional Elective – V	2	-	-	2	10	10	30	50	23	1.5
7	PROJ	25CS705P	Project – II	-	-	4	2	-	50	50	100	50	-
8	MDM	25CS731M	MDM – V (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
9	OE	25CS761O	Open Elective – III (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
<b>Total</b>				<b>16</b>		<b>8</b>	<b>20</b>	<b>100</b>	<b>200</b>	<b>400</b>	<b>700</b>		

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**SEMESTER VIII**

**OPTION A**

Sr No	Course Category	CourseCode	Course Title	Hoursper Week			Credits	Maximum Marks				Minimum Passing Marks	Duration
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	RM	25ES801T	Research Methodology <sup>#</sup>	2	-	-	2	10	10	30	50	23	1.5
2	RM	25ES801P	Blockchain Security Lab	-	-	4	2	-	25	25	50	25	-
3	PEC	25CS801T	Professional Elective <sup>#</sup>	3	-	-	3	20	20	60	100	45	3
4	PEC	25CS801P	Professional Elective <sup>#</sup> Lab	-	-	2	1	-	25	25	50	25	-
5	OJT	25CS802P(i)	Industry/Research Internship*	-	-	24	12	-	300	100	400	200	-
<b>Total</b>				<b>5</b>		<b>30</b>	<b>20</b>	<b>30</b>	<b>380</b>	<b>240</b>	<b>650</b>		

**OPTION B**

Sr No	Course Category	CourseCode	Course Title	Hoursper Week			Credits	Maximum Marks				Minimum Passing Marks	Duration
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	RM	25ES801T	Research Methodology <sup>#</sup>	2	-	-	2	10	10	30	50	23	1.5
2	RM	25ES801P	Blockchain Security Lab	-	-	4	2	-	25	25	50	25	-
3	PEC	25CS801T	Professional Elective <sup>#</sup>	3	-	-	3	20	20	60	100	45	3
4	PEC	25CS801P	Professional Elective <sup>#</sup> Lab	-	-	2	1	-	25	25	50	25	-
5	OJT	25CS802P(i)	Institutional Internship <sup>\$</sup> & Project III	-	-	24	12	-	300	100	400	200	-
<b>Total</b>				<b>5</b>		<b>30</b>	<b>20</b>	<b>30</b>	<b>380</b>	<b>240</b>	<b>650</b>		

**Option B is available to students only after recommendation of the concerned Head of the department. The project and internship should contribute towards career development plan of the students.**

**# Courses to be mapped with NPTEL/SWAYAM/MOOC offered course in that semester. Exam will be conducted by NPTEL/Institute.**

**\* One semester internship in any industry to be carried out.**

**\$ Two NPTEL courses of total 6 credits (as per choice of student) or Institutional Internship by IEDC, SVP CET.**

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**A. Basket for Multi-Disciplinary Minor Courses (MDM)**

Semester	Course Category	Course Code	Name of Course	Credits
III	MDM-I	25CS331M	Fundamentals of Network Security	2
IV	MDM-II	25CS431M	Cyber Security tools and Operating System	3
V	MDM-III	25CS531M	Foundations of Blockchain	3
VI	MDM-IV	25CS631M	Basics of Network Vulnerability and Penetration Testing	3
VII	MDM-V	25CS731M	Web Security Analysis	3

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**B. Basket for Program Elective Courses (PEC)**

Semester	Course Category	Course Code	Name of Course
V	PEC – I	25CS504T	Network Vulnerability Analysis and Penetration Testing
V	PEC – I Lab	25CS504P	Network Vulnerability Analysis and Penetration Testing Lab
V	PEC – I	25CS504T	Intrusion Detection and Prevention System
V	PEC – I Lab	25CS504P	Intrusion Detection and Prevention System Lab
V	PEC – I	25CS504T	Mobile App Security
V	PEC – I Lab	25CS504P	Mobile App Security Lab
VI	PEC – II	25CS602T	Introduction to Cloud Security
VI	PEC – II Lab	25CS602P	Introduction to Cloud Security Lab
VI	PEC – III	25CS603T	Machine Learning in Cyber Security
VI	PEC – II	25CS602T	Computer Security
VI	PEC – II Lab	25CS602P	Computer Security Lab
VI	PEC – III	25CS603T	Blockchain Technology
VII	PEC – IV	25CS703T	IOT Security
VII	PEC – IV Lab	25CS703P	IOT Security Lab
VII	PEC - V	25CS704T	Security Policies and Implementation
VII	PEC – IV	25CS703T	Artificial Intelligence and Cyber Security
VII	PEC – IV Lab	25CS703P	Artificial Intelligence and Cyber Security Lab
VII	PEC - V	25CS704T	Managing Risk in Information Security
VIII	PEC – VI	25CS801T	Information Security Audit and Monitoring
VIII	PEC – VI Lab	25CS801P	Information Security Audit and Monitoring Lab
VIII	PEC – VI	25CS801T	Information Security Analysis and Compliance using Big Data
VIII	PEC – VI Lab	25CS801P	Information Security Analysis and Compliance using Big Data Lab
VIII	PEC – VI	25CS801T	IT data and application Security
VIII	PEC – VI Lab	25CS801P	IT data and application Security Lab

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**C. Basket for Open Elective Courses (OE)**

Semester	Course Category	Course Code	Name of Course	Credits
V	OE-I	<b>25CS5610</b>	Fundamentals of Cryptography	2
VI	OE-II	<b>25CS6610</b>	Security Policies and Implementation	3
VII	OE-III	<b>25CS7610</b>	Introduction to Cloud Security	3

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**EXIT OPTIONS**

**Award of UG Certificate in Major with 40 credits and an additional 8 credits (After First Year) [Any Two]**

<b>EXIT COURSES</b>			
<b>S.N.</b>	<b>Course name</b>	<b>Mode of conduction</b>	<b>Credits</b>
1.	Course on Computing Using Python	MOOC/Online/Internship	4
2.	Course on programming using C++	MOOC/Online/Internship	4
3.	Course on Open-Source Software and Open standards	MOOC/Online/Internship	4

**Award of UG Diploma in Major with 80 credits and an additional 8 credits (After Second Year) [Any Two]**

<b>EXIT COURSES</b>			
<b>S.N.</b>	<b>Course name</b>	<b>Mode of conduction</b>	<b>Credits</b>
1.	Course on programming In Java	MOOC/Online/Internship	4
2.	Course on Software Testing	MOOC/Online/Internship	4
3.	Course on Ethical Hacking	MOOC/Online/Internship	4

**Award of UG Degree in Major with 120 credits and an additional 8 credits (After Third Year) [Any Two]**

<b>EXIT COURSES</b>			
<b>S.N.</b>	<b>Course name</b>	<b>Mode of conduction</b>	<b>Credits</b>
1.	Social Network Analysis	MOOC/Online/Internship	4
2.	Blockchain Technology	MOOC/Online/Internship	4
3.	Cyber Security & Privacy	MOOC/Online/Internship	4

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**VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR**

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**Tech. Scheme of Examination & Syllabus 2025-26**

**COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)**

		July 2025	3.0	Applicable for 2025-26
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