



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2026-27 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
Total Credits (Major)		20	20	20	20	20	20	20	20	160

		July 2026	NEP 4.0	Applicable for 2026-27 Admitted
Chairman - BoS	Dean – Academics	Date of Release	Version	



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(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2026-27

Computer Science and Engineering (Cyber Security)

SEMESTER I

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	BSC	26CS101T	Engineering Chemistry	2	-	-	2	10	10	30	50	23	1.5
2	BSC	26CS101P	Engineering Chemistry Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	26CS102T	Linear Algebra and Calculus	3	-	-	3	20	20	60	100	45	3
4	BSC	26CS102P	Linear Algebra and Calculus Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	26CS103T	Logic Building using 'C'	2	-	-	2	10	10	30	50	23	1.5
6	ESC	26CS103P	Logic Building using "C" Lab	-	-	2	1	-	25	25	50	25	-
7	ESC	26CS104T	Basics of Computer Architecture	3	-	-	3	20	20	60	100	45	3
8	PCC	26CS105P	Computer Workshop- I	-	-	2	1	-	25	25	50	25	-
9	AEC	26CS106P	Business Communication Skills – I Lab	-	-	2	1	-	25	25	50	25	-
10	IKS	26CS107T	Indian Knowledge Systems #	2	-	-	2	10	10	30	50	23	1.5
11	CC	26CS108P	Co-curricular Courses - I	-	-	4	2	-	50	-	50	25	-
12	PCC	26CS109P	Linux Administration	-	-	2	1	-	25	25	50	25	-
Total				12	-	16	20	70	270	360	700		

		July 2026	NEP 4.0	Applicable for 2026-27
Chairman - BoS	Dean – Academics	Date of Release	Version	



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(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2026-27

Computer Science and Engineering (Cyber Security)

SEMESTER II

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Semester Examination	Total		
1	BSC	26CS201T	Engineering Physics and Materials Science	2	-	-	2	10	10	30	50	23	1.5
2	BSC	26CS201P	Engineering Physics and Materials Science Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	26CS202T	Statistics and Probability	3	-	-	3	20	20	60	100	45	3
4	BSC	26CS202P	Statistics and Probability Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	26CS203T	Programming in Python	2	-	-	2	10	10	30	50	23	1.5
6	ESC	26CS203P	Programming in Python Lab	-	-	2	1	-	25	25	50	25	-
7	ESC	26CS204T	Introduction to Computer Network	3	-	-	3	20	20	60	100	45	3
8	PCC	26CS205P	Computer Workshop – II	-	-	2	1	-	25	25	50	25	-
9	AEC	26CS206P	Business Communication Skills – II Lab	-	-	2	1	-	25	25	50	25	-
10	SEC	26CS207T	Design Thinking #	2	-	-	2	10	10	30	50	23	1.5
11	CC	26CS208P	Co-curricular Courses – II	-	-	4	2	-	50	-	50	25	-
12	PCC	26CS209P	Windows Security	-	-	2	1	-	25	25	50	25	-
Total				12	-	16	20	70	245	335	650		

		July 2026	NEP 4.0	Applicable for 2026-27
Chairman - BoS	Dean – Academics	Date of Release	Version	



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2026-27

Computer Science and Engineering (Cyber Security)

SEMESTER III

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	P	T		Mid-Sem Examination	Continual Assessment	End Semester Examination	Total		
1	PCC	26CS301T	Applied Mathematics - III	2	-	-	2	10	10	30	50	23	1.5
2	PCC	26CS302T	Data Structures	3	-	-	3	20	20	60	100	45	3
3	PCC	26CS302P	Data Structures Lab	-	-	2	1	-	25	25	50	25	-
4	PCC	26CS303T	Operating System	3	-	-	3	20	20	60	100	45	3
5	PCC	26CS303P	Operating System Lab	-	-	2	1	-	25	25	50	25	-
6	PCC	26CS304T	Information Security Fundamentals	2	-	-	2	10	10	30	50	23	1.5
7	PCC	26CS305P	Cryptography Lab	-	-	2	1	-	25	25	50	25	-
8	VEC	26CS306T	Constitution of India	2	-	-	2	10	10	30	50	23	1.5
9	HSSM	26CS307T	Fundamentals of Entrepreneurship	2	-	-	2	10	10	30	50	23	1.5
10	SEC	26CS341P	Career Development – I	-	-	2	1	-	50	-	50	25	
11	MDM	26CS331M	MDM-I (Refer MDM basket)	2	-	-	2	10	10	30	50	23	1.5
Total				16	-	8	20	90	215	345	650		

		July 2026	NEP 4.0	Applicable for 2027-28
Chairman - BoS	Dean – Academics	Date of Release	Version	



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2026-27

Computer Science and Engineering (Cyber Security)

SEMESTER IV

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No. of Hrs for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26CS401T	Theory of Computation	3	-	-	3	20	20	60	100	45	3
2	PCC	26CS402T	Database Management System	3		-	3	20	20	60	100	45	3
3	PCC	26CS402P	Database Management System Lab	-	-	2	1	-	25	25	50	25	-
4	PCC	26CS403T	Basics of Ethical Hacking	2	-	-	2	10	10	30	50	23	1.5
5	PCC	26CS403P	Basics of Ethical Hacking Lab	-	-	2	1	-	25	25	50	25	-
6	VEC	26CS404T	Universal Human Values	2	-	-	2	10	10	30	50	23	1.5
7	HSSM	26CS405T	Fundamentals of Economics and Management	2	-	-	2	10	10	30	50	23	1.5
8	SEC	26CS441P	Career Development - II	-	-	2	1	-	50	-	50	-	-
9	CEP	26CS406P	Mini Project*	-	-	4	2	-	50	-	50	-	-
10	MDM	26CS431M	MDM-II (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
Total				15	-	10	20	90	240	320	650		

* Field Project or Community engagement project in the major discipline

		July 2026	NEP 4.0	Applicable for 2027-28
Chairman - BoS	Dean – Academics	Date of Release	Version	



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2026-27

Computer Science and Engineering (Cyber Security)

SEMESTER V

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26CS501T	Design and Analysis of Algorithm	3	-	-	3	20	20	60	100	45	3
2	PCC	26CS501P	Design and Analysis of Algorithm Lab	-	-	2	1	-	25	25	50	25	-
3	PCC	26CS502T	Security Strategies in Windows and Linux	2	-	-	2	10	10	30	50	23	1.5
4	PCC	26CS503P	Computer Lab - II	-	-	2	1	-	25	25	50	25	-
5	PEC	26CS504T	Professional Elective - I	2	-	-	2	10	10	30	50	23	1.5
6	PEC	26CS505T	Professional Elective – II	2	-	-	2	10	10	30	50	23	1.5
7	VSC	26CS506P	Technical Skill Development - I	-	-	4	2	-	50	-	50	-	-
8	AEC	26CS541P	Digital and Office Tools	-	-	4	2	-	50	-	50	-	-
9	MDM	26CS531M	MDM – III (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
10	OE	26CS561O	Open Elective – I (Refer OE basket)	2	-	-	2	10	10	30	50	23	1.5
Total				13	-	14	20	80	255	315	650		

		July 2026	NEP 4.0	Applicable for 2028-29
Chairman - BoS	Dean – Academics	Date of Release	Version	



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

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B. Tech. Scheme of Examination & Syllabus 2026-27 Computer Science and Engineering (Cyber Security)

SEMESTER VI

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26CS601T	Software Engineering and Project Management	3	-	-	3	20	20	60	100	45	3
2	PCC	26CS601P	Software Engineering and Project Management Lab	-	-	2	1	-	25	25	50	25	-
3	PEC	26CS602T	Professional Elective - III	3	-	-	3	20	20	60	100	45	3
4	PEC	26CS602P	Professional Elective – III Lab	-	-	2	1	-	25	25	50	25	-
5	PEC	26CS603T	Professional Elective – IV	2	-	-	2	10	10	30	50	23	1.5
6	PROJ	26CS605P	Project - I	-	-	4	2	-	50	50	100	50	-
7	VSC	26CS606P	Technical Skill Development - II	-	-	4	2	-	50	-	50	-	-
8	MDM	26CS631M	MDM – IV (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
9	OE	26CS661O	Open Elective – II (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
Total				14	-	12	20	90	240	370	700		

		July 2026	NEP 4.0	Applicable for 2028-29
Chairman - BoS	Dean – Academics	Date of Release	Version	



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

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B. Tech. Scheme of Examination & Syllabus 2026-27

Computer Science and Engineering (Cyber Security)

SEMESTER VII

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	PCC	26CS701T	Cyber Forensics	3	-	-	3	20	20	60	100	45	3
2	PCC	26CS701P	Cyber Forensics Lab	-	-	2	1	-	25	25	50	25	-
3	PCC	26CS702T	Threats and Malware Analysis	2	-	-	2	10	10	30	50	23	1.5
4	PEC	26CS703T	Professional Elective – V	3	-	-	3	20	20	60	100	45	3
5	PEC	26CS703P	Professional Elective – V Lab	-	-	2	1	-	25	25	50	25	-
6	PEC	26CS704T	Professional Elective – VI	2	-	-	2	10	10	30	50	23	1.5
7	PROJ	26CS705P	Project – II	-	-	4	2	-	50	50	100	50	-
8	MDM	26CS731M	MDM – V (Refer MDM basket)	3	-	-	3	20	20	60	100	45	3
9	OE	26CS761O	Open Elective – III (Refer OE basket)	3	-	-	3	20	20	60	100	45	3
Total				16	-	8	20	100	200	400	700		

		July 2026	NEP 4.0	Applicable for 2029-30
Chairman - BoS	Dean – Academics	Date of Release	Version	



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2026-27

Computer Science and Engineering (Cyber Security)

SEMESTER VIII

Option A

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	RM	26CS801T	Research Methodology [#]	2	-	-	2	10	10	30	50	23	1.5
2.	RM	26CS801P	Research Methodology Lab [#]	-	-	4	2	-	25	25	50	25	-
3.	PEC	26CS802T	Program Elective – VII [#]	3	-	-	3	20	20	60	100	45	3
4.	PEC	26CS803P	Program Elective – VIII Lab [#]	-	-	2	1	-	25	25	50	25	-
5.	OJT	26CS804P(i)	Industry/Research Internship*	-	-	24	12	-	200	200	400	200	-
Total				5	0	30	20	30	280	340	650	-	-

Option B

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration of ESE (hrs.)
				L	T	P		Mid Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	RM	26CS801T	Research Methodology [#]	2	-	-	2	10	10	30	50	23	1.5
2.	RM	26CS801P	Research Methodology Lab [#]	-	-	4	2	-	25	25	50	25	-
3.	PEC	26CS802T	Program Elective – VII [#]	3	-	-	3	20	20	60	100	45	3
4.	PEC	26CS803P	Program Elective – VIII Lab [#]	-	-	2	1	-	25	25	50	25	-
5.	ELC	26CS804P(ii)	Institutional Internship ^{\$} & Project – III	-	-	24	12	-	200	200	400	200	-
Total				5	0	30	20	30	280	340	650	-	1.5

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 courses in that semester.

* One semester internship in any industry/ Research Institute is to be carried out. \$ One Semester Internship offered by Institute Level Cells such as TPDC/ IEDC / E-Yantra/ Team Ashwa Riders along with project in the Major Discipline assigned by department to be carried out.

		July 2026	NEP 4.0	Applicable for 2029-30
Chairman - BoS	Dean – Academics	Date of Release	Version	



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR



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B. Tech. Scheme of Examination & Syllabus 2026-27 Computer Science and Engineering (Cyber Security)

Basket for Multi-Disciplinary Minor Courses (MDM)

A. Computer Science and Engineering (Cyber Security)

Semester	Course Category	Course Code	Name of Course	Subject Expert Name	Weeks	Credits
III	MDM-I	26CS331M	Fundamentals of Network Security	Prof. Punam Mahakalkar	2	2
IV	MDM-II	26CS431M	Cyber Security tools and Operating System	Prof. Punam Mahakalkar	3	3
V	MDM-III	26CS531M	Foundations of Blockchain	Prof. Mrunal Arjunker	3	3
VI	MDM-IV	26CS631M	Basics of Network Vulnerability and Penetration Testing	Dr. Abhishek Pathak	3	3
VII	MDM-V	26CS731M	Web Security Analysis	Prof. Yash Rajurkar	3	3

		July 2025	NEP 4.0	Applicable for 2026-27 Admitted
Chairman - BoS	Dean – Academics	Date of Release	Version	



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

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B. Tech. Scheme of Examination & Syllabus 2026-27

Computer Science and Engineering (Cyber Security)

Basket for Program Elective Courses (PEC)

B. Computer Science and Engineering (Cyber Security)

Semester	Course Category	Course Code	Name of Course	Credits
V	PEC-I	26CS504T(i)	Network Vulnerability Analysis and Penetration Testing	2
V	PEC-I	26CS504T(ii)	Security Policies and Implementation	2
V	PEC-II	26CS505T(i)	Intrusion Detection and Prevention System	2
V	PEC-II	26CS505T(ii)	Mobile App Security	2
VI	PEC-III	26CS602T(i)	Computer Security	3
VI	PEC-III	26CS602P(i)	Computer Security Lab	1
VI	PEC-III	26CS602T(ii)	Introduction to Cloud Security	3
VI	PEC-III	26CS602P(ii)	Introduction to Cloud Security Lab	1
VI	PEC-IV	26CS603T(i)	Blockchain Technology	2
VI	PEC-IV	26CS603T(ii)	Machine Learning for Cyber Security	2
VII	PEC-V	26CS703T(i)	IOT Security	3
VII	PEC-V	26CS703P(i)	IOT Security Lab	1
VII	PEC-V	26CS703T(ii)	Artificial Intelligence and Cyber Security	3
VII	PEC-V	26CS703P(ii)	Artificial Intelligence and Cyber Security Lab	1
VII	PEC-VI	26CS704T(i)	Managing Risk in Information Security	2
VII	PEC-VI	26CS704T(ii)	IT data and application Security	2
VIII	PEC-VII	26CS802T(i)	Information Security Analysis and Compliance using Big Data	3
VIII	PEC-VII	26CS802T(ii)	Information Security Audit and Monitoring	3
VIII	PEC-VIII	26CS803P(i)	Information Security Analysis and Compliance using Big Data Lab	1
VIII	PEC-VIII	26CS803P(ii)	Information Security Audit and Monitoring Lab	1

		July 2025	NEP 4.0	Applicable for 2026-27 Admitted
Chairman - BoS	Dean - Academics	Date of Release	Version	



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2026-27

Computer Science and Engineering (Cyber Security)

Basket for Open Elective Courses (OE)

C. Computer Science and Engineering (Cyber Security)

Semester	Course Category	Course Code	Name of Course	Credits
V	OE-I	26CS561O (i)	Fundamentals of Cryptography	2
V	OE-I	26CS561O (ii)	Basics of Ethical hacking	
V	OE-I	26CS561O (iii)	Security in IOT	
VI	OE-II	26CS661O(i)	Security Policies and Implementation	3
VI	OE-II	26CS661O(ii)	Cyber law and Legal issues in cyber security	
VI	OE-II	26CS661O(iii)	Intrusion detection and prevention system	
VII	OE-III	26CS761O(i)	Introduction to Cloud Security	3
VII	OE-III	26CS761O(ii)	Mobile App security analysis	
VII	OE-III	26CS761O(iii)	Network and Web Security	

		July 2025	NEP 4.0	Applicable for 2026-27 Admitted
Chairman - BoS	Dean – Academics	Date of Release	Version	



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B. Tech. Scheme of Examination & Syllabus 2026-27

Computer Science and Engineering (Cyber Security)

EXIT OPTIONS

Award of UG Certificate in Major with 40 credits and an additional 8 credits (After First Year)



EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
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 80credits and an additional 8 credits (After Second Year)

EXIT COURSES			
S.N.	Course name	Mode of conduction	Credits
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 120credits and an additional 8 credits (After Third Year)

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

		July 2025	NEP 4.0	Applicable for 2026-27 Admitted
Chairman - BoS	Dean – Academics	Date of Release	Version	



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B. Tech. Scheme of Examination & Syllabus 2026-27 Computer Science and Engineering (Cyber Security)

Scheme of Examination -Minors

<Name of the Minor Course>

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total	
1.	Minor	26xxM401T	NA	-	-	-	3	-	-	-	-	NPTEL/MOOC S
2.	Minor	26xxM402T	NA	-	-	-	3	-	-	-	-	NPTEL/MOOC S
3.	Minor	26xxM501T	NA	-	-	-	3	-	-	-	-	NPTEL/MOOC S
4.	Minor	26xxM601T	NA	-	-	-	3	-	-	-	-	NPTEL/MOOC S
5.	Minor	26xxM701T	NA	-	-	-	3	-	-	-	-	NPTEL/MOOC S
6.	Minor	26xxM801T	NA	-	-	-	3	-	-	-	-	NPTEL/MOOC S
Total				-	-	-	18	-	-	-	-	

D

Attached Details of NPTEL Courses with Link

		July 2025	NEP 4.0	Applicable for 2026-27 Admitted
Chairman - BoS	Dean – Academics	Date of Release	Version	



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2026-27

Computer Science and Engineering (Cyber Security)

Scheme of Examination -Honors

<Name of the Honor Course>

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total	
1.	Honor	26CSH401T	Foundations of Cryptography	-	-	-	3	-	-	-	-	NPTEL/MOOCs
2.	Honor	26CSH402T	Information Security	-	-	-	3	-	-	-	-	NPTEL/MOOCs
3.	Honor	26CSH501T	Cryptography and Network Security	-	-	-	3	-	-	-	-	NPTEL/MOOCs
4.	Honor	26CSH601T	Practical Cyber Security for Cyber Security Practitioners	-	-	-	3	-	-	-	-	NPTEL/MOOCs
5.	Honor	26CSH701T	Blockchain and its applications	-	-	-	3	-	-	-	-	NPTEL/MOOCs
6.	Honor	26CSH801T	Information Security - 5 - Secure System Engineering	-	-	-	3	-	-	-	-	NPTEL/MOOCs
Total				-	-	-	18	-	-	-	-	-

Attached Details of NPTEL Courses with Link

		July 2025	NEP 4.0	Applicable for 2026-27 Admitted
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