

Sessional Test Syllabus Session 2026-27

Syllabus for Sessional Test - 1st Semester (Civil) (Odd Semester)

Subject ID	Subject Name	1st Sessional	2nd Sessional	3rd Sessional
250011	English & Communication skills-I	Unit 1.1, 1.2, 1.3, 1.4, 3.1, 3.2, 4.1	Unit 1.5, 2, 3.3, 3.4, 4.2	Unit 1.6, 3.5, 4.3, 4.4, 4.5, 4.6
220012/210012	Applied Mathematics-I	Unit 1 & 2.1	Unit 2.2, 3	Unit 4 & 5
250013/220013	Applied Physics-I	Unit 1, 2 (2.1 to 2.5)	Unit 2 (2.6 to 2.9) & 3	Unit 4 & 5
260014/220014	Applied Chemistry	Unit 1	Unit 2 & 3	Unit 4 & 5
250015/220015	Engineering Graphics	Unit 1	Unit 2	Unit 3, 4 & 5
220716	Plumbing Services	Unit 1, 2	Unit 3 & 4	Unit 5

Syllabus for Sessional Test (Odd Semester)

1st Semester (Computer)

250011	English & Communication skills-I	Unit 1.1, 1.2, 1.3, 1.4, 3.1, 3.2, 4.1	Unit 1.5, 2, 3.3, 3.4, 4.2	Unit 1.6, 3.5, 4.3, 4.4, 4.5, 4.6
220012/210012	Applied Mathematics-I	Unit 1 & 2.1	Unit 2.2, 3	Unit 4 & 5
250013/220013	Applied Physics-I	Unit 1, 2 (2.1 to 2.5)	Unit 2 (2.6 to 2.9) & 3	Unit 4 & 5
260017/250017/220	Fundamentals of IT	Unit 1	Unit 2 & 3	Unit 4 & 5

Syllabus for Sessional Test

1st Semester (Electrical)

250011	English & Communication skills-I	Unit 1.1, 1.2, 1.3, 1.4, 3.1, 3.2, 4.1	Unit 1.5, 2, 3.3, 3.4, 4.2	Unit 1.6, 3.5, 4.3, 4.4, 4.5, 4.6
220012/210012	Applied Mathematics-I	Unit 1 & 2.1	Unit 2.2, 3	Unit 4 & 5
250013/220013	Applied Physics-I	Unit 1, 2 (2.1 to 2.5)	Unit 2 (2.6 to 2.9) & 3	Unit 4 & 5
250015/220015	Engineering Graphics	Unit 1	Unit 2	Unit 3, 4 & 5
260017/250017/220	Fundamentals of IT	Unit 1	Unit 2 & 3	Unit 4 & 5
265714/220914	Principles of Electrical engg.	Unit 1, 2 (2.1 to 2.2)	Unit 2 (2.3 to 2.5), 3 & 4 (4.1 to 4.2)	Unit 4 (4.3 to 4.6) & 5

Syllabus for Sessional Test (Odd Semester)

1st Semester (Electronics)

250011	English & Communication skills-I	Unit 1.1, 1.2, 1.3, 1.4, 3.1, 3.2, 4.1	Unit 1.5, 2, 3.3, 3.4, 4.2	Unit 1.6, 3.5, 4.3, 4.4, 4.5, 4.6
220012/210012	Applied Mathematics-I	Unit 1 & 2.1	Unit 2.2, 3	Unit 4 & 5
250013/220013	Applied Physics-I	Unit 1, 2 (2.1 to 2.5)	Unit 2 (2.6 to 2.9) & 3	Unit 4 & 5
221014/212817	Fundamentals of Electrical Engg.	Unit 1 & 2 (2.1 to 2.3)	Unit 2 (2.4 to 2.6), 3	Unit 4 & 5
260017/250017/220	Fundamentals of IT	Unit 1	Unit 2 & 3	Unit 4 & 5

Syllabus for Sessional Test (Odd Semester)

1st Semester (Mechanical)

250011	English & Communication skills-I	Unit 1.1, 1.2, 1.3, 1.4, 3.1, 3.2, 4.1	Unit 1.5, 2, 3.3, 3.4, 4.2	Unit 1.6, 3.5, 4.3, 4.4, 4.5, 4.6
220012/210012	Applied Mathematics-I	Unit 1 & 2.1	Unit 2.2, 3	Unit 4 & 5
250013/220013	Applied Physics-I	Unit 1, 2 (2.1 to 2.5)	Unit 2 (2.6 to 2.9) & 3	Unit 4 & 5
260015/220015	Engineering Graphics	Unit 1	Unit 2	Unit 3, 4 & 5
260017/250017/220	Fundamentals of IT	Unit 1	Unit 2 & 3	Unit 4 & 5
260016/250016/220	Environmental Studies & Disaster Management	Unit 1 & 2.1	Unit 2.2 & 3	Unit 4 & 5

Syllabus for Sessional Test				
3rd Semester (Civil) (Odd Semester)				
Subject ID	Subject Name	1st Sessional	2nd Sessional	3rd Sessional
220731	Concrete Technology	Unit I (1, 2) & Unit II (3)	Unit II (4) & Unit III (5)	Unit IV (6) & Unit V (7, 8)
220732	Structural Mechanics	Unit I (1, 2)	Unit II (3) & Unit III (4)	Unit IV (5, 6) & Unit (7, 8)
220733	Surveying- I	Unit I & Unit II	Unit III & Unit IV (4.1 & 4.2)	Unit IV (4.3 to 4.6) & Unit V
220734	Building Construction	Unit I (1, 2) & Unit II (3)	Unit II (4) & Unit III (5, 6)	Unit IV (7, 8) & Unit V (9, 10)
220735	Fluid Mechanics	Unit I (1, 2)	Unit II (3, 4) & Unit III (5, 6)	Unit IV (7, 8) & Unit V (9, 10)
Syllabus for Sessional Test				
3rd Semester (Computer) (Odd Semester)				
Subject ID	Subject Name	1st Sessional	2nd Sessional	3rd Sessional
220831	Operating Systems	Unit I	Unit II & Unit III	Unit IV & Unit V
220832/212832	Digital Electronics	Unit I & Unit II	Unit III & Unit IV (4.1 to 4.3)	Unit IV (4.4 to 4.6) & Unit V
220833	Programming in C	Unit I & Unit II: 2.1, 2.2	Unit II: 2.3, 2.4 & Unit III	Unit IV & Unit V
220834	Database Management System	Unit I	Unit II & Unit III	Unit IV & Unit V
Syllabus for Sessional Test				
3rd Semester (Electrical) (Odd Semester)				
Subject ID	Subject Name	1st Sessional	2nd Sessional	3rd Sessional
220931	Electrical Machines -I	Unit I	Unit II & Unit III	Unit IV & Unit V
220932	Electrical Measurement & Instrumentation	Unit I	Unit II & Unit III	Unit IV & Unit V
220933	Analog & Digital Electronics	Unit I	Unit II	Unit III & Unit IV
220934	Electrical Engineering Materials	Unit I & Unit II	Unit III	Unit IV & Unit V
Syllabus for Sessional Test				
3rd Semester (Electronics & Communication) (Odd Semester)				
Subject ID	Subject Name	1st Sessional	2nd Sessional	3rd Sessional
221031	Analog & Digital Communication	Unit I & Unit II	Unit III & Unit IV	Unit V
220832/212832	Digital Electronics	Unit I & Unit II	Unit III & Unit IV (4.1 to 4.3)	Unit IV (4.4 to 4.6) & Unit V
221034	Electronic Devices and Circuits-II	Unit I & Unit II	Unit III & Unit IV	Unit V
220833	Programming in C	Unit I & Unit II: 2.1, 2.2	Unit II: 2.3, 2.4 & Unit III	Unit IV & Unit V
Syllabus for Sessional Test				
3rd Semester (Mechanical) (Odd Semester)				
Subject ID	Subject Name	1st Sessional	2nd Sessional	3rd Sessional
220331	Strength of Materials	Unit I	Unit II, III & IV (5)	Unit IV (6) & Unit (7, 8)
221732	Mechanical Engineering Drawing II	Unit I, 2.1 & 2.2 (2.2.1 to 2.2.4)	Unit 2.3 to 2.5 & 3, 4 & 5	Unit 6, 7 & 8
221733	Thermodynamics-I	Unit I (1, 2) & Unit II (3)	Unit III & Unit IV (5)	Unit IV (6) & Unit V (7, 8)
220334	Workshop Technology-II	Unit I & Unit II (2.1)	Unit II (2.2) & Unit III (3)	Unit III(4), Unit IV & Unit V
253435/220335	Basics of Electrical and Electronics Engg.	Unit I	Unit II & Unit III	Unit IV, Unit V

Syllabus for Sessional Test				
5th Semester (Civil) (Odd Semester)				
Subject ID	Subject Name	1st Sessional	2nd Sessional	3rd Sessional
220751	RCC Design and Drawing	Unit I & Unit II	Unit III & Unit IV (5.1)	Unit V
220752	Highway Engineering	Unit I & Unit II (2.1)	Unit II (2.2), Unit III & Unit IV (4.1 & 4.2)	Unit IV (4.3) & Unit V
220753	Railway, Bridges & Tunnels	Unit I & Unit II (2.1 to 2.3)	Unit II (2.4 to 2.7), Unit III & Unit IV (4.1 to 4.2)	Unit IV (4.3 to 4.5) & Unit V
220754	Estimating & Costing	Unit I & Unit II	Unit III & Unit IV	Unit V
220755	Construction Management	Unit I & Unit II	Unit III & Unit IV	Unit V
220756A	Sustainable Development	Unit I	Unit II & Unit III	Unit IV & Unit V
220756B	Solid Waste Management	Unit I & Unit II	Unit III & Unit IV	Unit V
220756C	Advanced Construction Technology	Unit I & Unit II	Unit III & Unit IV	Unit V
Syllabus for Sessional Test				
5th Semester (Computer) (Odd Semester)				
Subject ID	Subject Name	1st Sessional	2nd Sessional	3rd Sessional
220851	Web Technologies	Unit I to Unit IV	Unit IV	Unit V
220852	Computer Networks	Unit I	Unit II & Unit III	Unit IV & Unit V
220853	Python Programming	Unit I	Unit II & Unit III	Unit IV & Unit V
220854A	Cloud Computing (Common with AI & ML and A&R)	Unit I to Unit III	Unit IV	Unit V
220854B	Big Data	Unit I & Unit II (HADOOP)	Unit II (MAP REDUCE)	Unit IV
Syllabus for Sessional Test				
5th Semester (Electrical) (Odd Semester)				
Subject ID	Subject Name	1st Sessional	2nd Sessional	3rd Sessional
220951	Electric Vehicle Technology	Unit I & Unit II	Unit III & Unit IV	Unit V
220952	Power system	Unit I & Unit II (2.1 to 2.2)	Unit II (2.3 to 2.4), Unit III & Unit IV (4.1)	Unit IV (4.2) & Unit V
220953	Industrial Electronics and Control of Drives	Unit I & Unit II (2.1 to 2.3)	Unit II (2.4 to 2.6), Unit III & Unit IV (4.1 to 4.3)	Unit IV (4.4, 4.5) & Unit V
220954A	Solar Panel Installation and Maintenance	Unit I & Unit II	Unit III & Unit IV	Unit V
220954B	Electrical Traction system	Unit I & Unit II	Unit III & Unit IV	Unit V
Syllabus for Sessional Test				
5th Semester (Electronics & Communication) (Odd Semester)				
Subject ID	Subject Name	1st Sessional	2nd Sessional	3rd Sessional
221051	Instrumentation	Unit I & Unit II	Unit III & Unit IV	Unit V
221052/212852	** PLC & SCADA	Unit I & Unit II	Unit III & Unit IV	Unit V
221053	Wireless & Mobile Communication	Unit I & Unit II	Unit III & Unit IV	Unit V
221054	Optical Fibre Communication	Unit I & Unit II	Unit III	Unit IV & V
Syllabus for Sessional Test				
5th Semester (Mechanical) (Odd Semester)				
Subject ID	Subject Name	1st Sessional	2nd Sessional	3rd Sessional
221751	**CNC Machines and Automation	Unit I & Unit II	Unit III & Unit IV	Unit V
221752	Refrigeration and Air Conditioning	Unit I & Unit II	Unit III & Unit IV	Unit V
221753A	Industrial Engineering	Unit I & Unit II	Unit III & Unit IV	Unit V
221753B	Plant Maintenance & Material Handling	Unit I	Unit II & Unit III	Unit IV & Unit V
221753C	Stainless Steel Technology	Unit I & Unit II	Unit III & Unit IV	Unit V
221754	Theory of Machines	Unit I & Unit II	Unit III & Unit IV	Unit V

OFFICE OF THE PRINCIPAL: GOVT. POLYTECHNIC, NANAKPUR (PANCHKULA)

Endst. No: GPNP/Exam/2026/ 2711 - 2714

Dated: 11-08-26

In reference to e-mail received from HSBTE, Panchkula dated 10.08.2026 regarding the subject "Updated Unit -wise distribution of Syllabus for Sessional Test Odd Semester Exam for academic session 2026-27", a copy of the overleaf is forwarded to the following for information & necessary action.

1.) HOD/O/I (Civil/Comp./Elect./ECE/Mech. Engg.)/W/Shop Supdt.: with request to intimate the staff under their control and inform the students regarding the same.- Through Email.

2.) O/I Exam

3.) O/I website- to upload the same on Institute's web-site. - *through email*

4.) Notice Board


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Govt. Polytechnic,
Nanakpur (Panchkula)