	Semester - I						
	B.Sc CHEMIST	'RY (Hons.)					
Sr.No.	Paper Title	Course Code	Core/Elec tive	Credit	L-T-P		
1	University Physics – I	BSP101	Core	3	3-0-0		
2	University Physics – I Lab	BSP101P	Core	1	0-0-2		
3	Chemistry – I	16BSC101	Core	3	3-0-0		
4	Chemistry – I Lab	16BSC101P	Core	1	0-0-2		
5	Calculus and Analytical Geometry –I (For A Group)	BSM101	Core	3	3-0-0		
6	General Mathematics (For B Group)	BSM102	Core				
7	Foreign Language	A111	Core	3	3-0-0		
8	English Communication	A101	Core	2 1	3-0-0		
	Elective Subject (Any Two)			2			
8	Computer Science	A104	Elective	3	3-0-0		
9	Linear Algebra	BSM101E	Elective	3	3-0-0		
10	Leadership	A106	Elective	3	3-0-0		
11	Understanding Theatrical Arts	A107	Elective	3	3-0-0		
				23	25		

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Semester - II
B So CHEMISTRY (H

	B.Sc CHEMISTRY (Hons.)						
Sr.No.	Paper Title	Course Code	Core/Elec tive	Credit	L-T-P		
1	University Physics – II	16BSP201	Core	3	3-0-0		
2	University Physics – II Lab	16BSP201P	Core	1	0-0-2		
3	Chemistry - II	16BSC201	Core	3	3-0-0		
4	Chemistry Lab-II	16BSC201P	Core	1	0-0-2		
5	Calculus and Analytical Geometry –II For A Group	16BSM201T	Core	3	3-0-0		
	General Mathematics For B Group	16BSM202T	Core				
6	Elements of Environment Studies	16BSP203	Core	3	3-0-0		
7	Foreign Language II	16A219-221	Core	3	3-0-0		
	Elective Subject (Any One)						
8	Mechanics	16BSP202E	Elective	3	3-0-0		
9	Introduction to Bio Chemistry	16BSC203E	Elective	3	3-0-0		
10	Theory of equations	16BSM203E	Elective	3	3-0-0		
	Elective Subject (Any One)						
11	Fundamental of Programming and data structure	16A215	Elective	3	3-0-1		
12	Musical styles	16A209	Elective	3	3-0-0		
13	Ovierview of Indian art	16A217	Elective	3	3-0-0		
				23	25		

	School of Energy	Technology			
	Semester - III (Verified and		7 2022)		
	B.Sc CHEMIST	RY (Hons.)			
Sr.No.	Paper Title	Course Code	Core/Elec tive	Credit	L-T-P
	Compulsory				
	Chemistry	Major			
1	Ordinary Differential Equations (For Gr A) / Basic Mathematics-III (For Gr B)		Core	4	4-0-0
6	Thermodynamics	17BSC301	Core	4	4-0-0
7	Chemistry - III	17BSC302	Core	4	4-0-0
1	Chemistry - III Lab	17BSC302P	Core	1	0-0-2
8	Physics Subsidiary -Introduction to Modern Physics	17BSP304T	Core	4	4-0-0
	Elective Subject (Any Two) common for Physics, Chemistry & Maths				
1	Any one from following group				
	Physics Elective-I (Introduction to Geo- Informatics)	17BSP305T	Elective	3	3-0-0
	Physics Elective-II (Introduction to Astrophysics)	22BSP201T	Elective	3	3-0-0
	Chemistry Elective-I (Introduction to bio organic chemistry and chemical biology)	17BSC305	Elective	3	3-0-0
	Maths Elective-I (Number Theory)	BSMXXX	Elective	3	3-0-0
2	Any one from Following group				
	Films and Society	20A330	Elective	3	3-0-0
	Workplace Communication	17A309	Elective	3	3-0-0
	Environmental Psychology	20A329	Elective	3	3-0-0
	Atmospheric Sciences	17A311	Elective	3	3-0-0
	Indian Government and Politics	17A312	Elective	3	3-0-0
	Basics of Accounting	17A317	Elective	3	3-0-0
	Introduction to Human Resource Management	17A318	Elective	3	3-0-0

		al Energy University ergy Technology	7		
	Seme	ester - IV			
	B.Sc CHEM	IISTRY (Hons.)			
Sr.No.	Paper Title	Course Code	Core/Elec tive	Credit	L-T-I
<u> </u>	Compuls	sory Subjects			
	Chermi	istry Major			
1	Analytical Chemistry - I	17BSC401	Core	4	4-0-0
2	Polymers	17BSC402	Core	4	4-0-0

3	Materials Chemistry	17BSC403	Core	4	4-0-0
4	Analytical Chemistry Lab - I	17BSC401P	Core	1	0-0-2
5	Physics (Subsidiary)	17BSP404	Core	4	4-0-0
	Elective Subject (Any Two) common for Physics, Chemistry & Maths				
	Any one from following group				
1	Physcis Elective-2	17BSP405E	Elective	3	3-0-0
2	Chemistry Elective-2 (Environmental Chemistry)	17BSC405E	Elective	3	3-0-0
3	Applications of Advanced Calculus	17BSM405E	Elective	3	3-0-0
	Any one from Following group				
1	Statistics	A408	Elective	3	3-0-0
2	Rural Development in India	A409	Elective	3	3-0-0
3	Cognitive Psychology	A410	Elective	3	3-0-0
4	Educational Psychology	A411	Elective	3	3-0-0
5	Soft Skills	A412	Elective	3	3-0-0
6	Advanced Atmospheric Science	A414	Elective	3	3-0-0
7	Principles of Financial Management	A420	Elective	3	3-0-0
				23	24

School of Energy Technology

	Semester - V						
	B.Sc CHEMIST	TRY (Hons.)			-		
Sr.No.	Paper Title	Course Code	Core/Elec tive	Credit	L-T-P		
Chermistry Major							
7	Chemical Kinetics and Catalysis	18BSC501	Core	4	4-0-0		
8	Liquid State and Ionic Equilibria	18BSC502	Core	4	4-0-0		
9	Oxygen containing functional groups	18BSC503	Core	4	4-0-0		
10	Coordination Chemistry	18BSC504	Core	4	4-0-0		
11	Inrorganic Chemistry Lab-1	18BSC501P	Core	1	0-0-2		
12	Organic Chemistry Lab-1	18BSC502P	Core	1	0-0-2		
13	Elective (any one)						
	Green Chemistry	18BSC505	Elective	3	3-0-0		
	Fundamentals of Biotechnolgy	18BSC506	Elective	3	3-0-0		
	Open Elective (from Basket, under discussion)		Elective	3	3-0-1		
				21	23		

	Pandit Deendayal Energy University School of Energy Technology				
	Semester - VI				
	B.Sc CHEMISTRY (Hons.)				
Sr.No.	Paper Title	Course Code	Core/Elec tive	Credit	L-T-P

	Chermistr	y Major			
1	Spectroscopy & Photochemistry	18BSC601	Core	4	4-0-0
2	Heterocyclic & Stereochemistry	18BSC602	Core	4	4-0-0
3	Electrochemistry	18BSC603	Core	4	4-0-0
4	Group Chemistry & Organometallic Chemistry	18BSC604	Core	4	4-0-0
5	Physical Chemistry Lab - I	18BSC601P	Core	1	0-0-2
6	Organic Chemistry Lab - II	18BSC602P	Core	1	0-0-2
	Elective (any one)				
7	Petroleum Chemistry	18BSC605E	Elective	3	3-0-0
8	Chemistry of Paints and Dyes	18BSC606E	Elective	3	3-0-0
9	Pharmaceutical Chemistry	18BSC607E	Elective	3	3-0-0
10	Chemistry of Cosmetics & Perfumes	18BSC608E	Elective	3	3-0-0
				21	23

Pandit Deendayal Energy University **School of Energy Technology** Semester - VII

	B.Sc CHEMIST	CRY (Hons.)					
Sr.No.	Paper Title	Course Code	Core/Elec tive	Credit	L-T-P		
	Chermistry Major						
7	Nano Chemistry	19BSC701	Core	4	4-0-0		
8	Advance Spectroscopy	19BSC702	Core	4	4-0-0		
9	Reagents name reactions	19BSC703	Core	4	4-0-0		
10	Organic Chemistry Lab-3	19BSC701P	Core	1	0-0-2		
11	Inorganic Chemistry Lab -2	19BSC702P	Core	1	0-0-2		
12	Seminar	21BSC708	Core	8	X-X-X		
	Electives (any Two)						
13	Computer Application in Chemistry	19BSC705	Elective	3	3-0-0		
14	Heterogeneous Catalysis	19BSC706	Elective	3	3-0-0		
15	Supramolecular Chemistry	19BSC707	Elective	3	3-0-0		
	OR One Elective and one NPTEL	-			-		
	NPTEL Subjects (under discussion)		Elective	3	3-0-0		
		-	•	28	22+16		

Pandit Deendayal Energy University School of Energy Technology Semester - VIII **B.Sc CHEMISTRY (Hons.)** Core/Elec **Paper Title Course Code** Sr.No. Credit L-T-P tive

Chermistry Major						
1	Natural Products	19BSC801	Core	4	4-0-0	
2	Analytical Methods and Equipments	19BSC802	Core	4	4-0-0	
3	Project	21BSC803	Core	7	X-X-X	
4	Dissertation	21BSC804	Core	8	X-X-X	
5	Quantum and Computational Chemistry	21BSC805	Core	4	3-1-0	
				27	11+30	

Pandit Deendayal Energy University School of Energy Technology B.Sc CHEMISTRY (Hons.)

	Toatl Credit	Grand Total
Semester 1	23	
Semester 2	23	
Semester 3	23	
Semester 4	23	189
Semester 5	21	169
Semester 6	21	
Semester 7	28	
Semester 8	27	