



Dr Sagar Mal Juniwal's

APEX UNIVERSITY®

JAIPUR



FACULTY OF BASIC LIFE & APPLIED SCIENCES

DEPARTMENT OF PHYSICAL SCIENCES

Teaching Scheme Session 2022 Onwards

Program Name: B.Sc. Life Sciences (Pass Course)

Course: B.Sc. (Physics, Chemistry, Mathematics)

YEAR/SEMESTER: I/I

S. No.	Subject Code	Subject Title	Credit
Theory Papers			
1	BS102101	Hindi- MIL-1	4
2	BS102102	English MIL-1	4
3	BS102103	English Communication	2
4	BS102104	Mathematics-I (Differential Calculus)	4
5	BS102105	Physics-I (Mechanics)	4
6	BS102106	Chemistry -I (Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons)	4
Practical Papers			
1	BS102121	Mathematics Lab I	2
2	BS102122	Physics Lab I	2
3	BS102123	Chemistry Lab I	2
4	SODECA	Social Outreach, Discipline & Extra Curricular Activities	1



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YEAR/SEMESTER: I/II

S. No.	Subject Code	Subject Title	Credit
Theory Papers			
1	BS102201	Hindi- MIL-II	4
2	BS102202	English MIL-II	4
3	BS102203	Environmental Science	2
4	BS102204	Mathematics-II (Differential Equations)	6
5	BS102205	Physics-II (Electricity, Magnetism & EMT)	4
6	BS102206	Chemistry -II (Chemical energetics, equilibria & Organic Chemistry-I)	4
Practical Papers			
1	BS102221	Physics Lab II	2
2	BS102222	Chemistry Lab II	2
3	SODECA	Social Outreach, Discipline & Extra Curricular Activities	1



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YEAR/SEMESTER: II/III

S. No.	Subject Code	Subject Title	Credit
		Theory Papers	
1	BS102301	Mathematics-III (Real Analysis)	4
2	BS102302	Physics-III (Thermal Physics & Statistical Mechanics)	4
3	BS102303	Chemistry-III (Solutions, Phase Equilibrium, Conductance, Electrochemistry & Functional Group Organic Chemistry-II)	4
4	BS102304	Computational Skill (Matlab- Math Work)	1
5	CA101351	Fundamentals of Computer Application - I	1
6	HA101351	Professional English-I	2
Practical Papers			
1	BS102321	Mathematics Lab III	2
2	BS102322	Physics Lab III	2
3	BS102323	Chemistry Lab III	2
4	BS102324	Computational Skill Lab (Matlab- Math Work)	1
5	CA101371	Fundamentals of Computer Application - I	1
6	SODECA	Social Outreach, Discipline & Extra Curricular Activities	1



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YEAR/SEMESTER: II/IV

S. No.	Subject Code	Subject Title	Credit
Theory Papers			
1	BS102401	Mathematics-IV (Algebra)	6
2	BS102402	Physics-IV (Wave & Optics)	4
3	BS102403	Chemistry-IV (Transition Metal & Coordination Chemistry, States Of Matter & Chemical Kinetics)	4
4	BS102404	Physics-(Electrical Circuits & Network Skills)	2
5	CA101451	Fundamentals of Computer Application - II	1
6	HA101451	Professional English-II	2
Practical Papers			
1	BS102421	Physics Lab IV	2
2	BS102422	Chemistry Lab IV	2
3	CA101471	Fundamentals of Computer Application - II	1
4	SODECA	Social Outreach, Discipline & Extra Curricular Activities	1



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YEAR/SEMESTER: III/V

S. No.	Subject Code	Subject Title	Credit
Theory Papers			
1	BS102501	Mathematics (Linear Algebra)	6
2	BS102502	Physics- (Quantum Mechanics)	4
3	BS102503	Chemistry (Quantum Chemistry, Spectroscopy & Photochemistry)	4
4	BS102504	Chemistry (Basic Analytical Chemistry)	2
5	CA101551	Fundamentals of Computer Application - III	1
6	HA101551	Professional English-III	2
Practical Papers			
1	BS102521	Physics V	2
2	BS102522	Chemistry V	2
3	CA101571	Fundamentals of Computer Application - III	1
4	SODECA	Social Outreach, Discipline & Extra Curricular Activities	1



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YEAR/SEMESTER: III/VI

S. No.	Subject Code	Subject Title	Credit
		Theory Papers	
1	BS102601	Mathematics (Numerical Methods)	6
2	BS102602	Physics- (Nuclear & Particle Physics)	4
3	BS102603	Chemistry II (Analytical Methods In Chemistry)	4
4	BS102604	Mathematics (Analytical Geometry)	2
5	CA101651	Fundamentals of Computer Application - IV	1
6	HA101651	Professional English-IV	2
Practical Papers			
1	BS102621	Physics Lab	2
2	BS102622	Chemistry Lab	2
3	BS102623	Mathematics Lab	2
4	CA101671	Fundamentals of Computer Application - IV	1
5	SODECA	Social Outreach, Discipline & Extra Curricular Activities	1