











DEPARTMENT OF CHEMISTRY  
EVALUATION SCHEME

w.e.f. July, 2020

Bachelor of Science (Physics, Chemistry, Mathematics), 3<sup>rd</sup> Year / 5<sup>th</sup> Semester (Chemistry & Mathematics Group)

S.N.	Course Code	Course Title	(T)Theory (P)Practical	Course Type	Periods per Week			Evaluation Scheme			End Semester	Subject Total	Total Credit	Attributes							United Nations Sustainable Development Goals (SDGs)			
					Lecture	Tutorial	Practicals	Class Test	Teacher Assessment	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Values	Professional Ethics				
1.	CH314	Advance Inorganic Chemistry	T	Core	3	1	0	40	20	60	40	100	4	✓		✓								-
2.	CH315	Advance Organic Chemistry	T	Core	2	1	0	40	20	60	40	100	3	✓		✓								-
3.	CH319	Basics of Chromatographic Techniques	T	Core	2	1	0	40	20	60	40	100	3	✓	✓	✓		✓						 
4.	MT301	Advance Calculus	T	Core	3	1	0	40	20	60	40	100	4	✓		✓								
5.	MT302	Mathematical Statistics	T	Core	2	1	0	40	20	60	40	100	3	✓		✓								
6.	MT303	Number Theory	T	Core	2	1	0	40	20	60	40	100	3	✓		✓								
7.	CH316	Chemistry Practical-V	P	Core	0	0	4	40	20	60	40	100	2	✓	✓	✓		✓					 	
8.	MT304	Statistical Techniques Lab	P	Core	0	0	4	40	20	60	40	100	2	✓		✓								
<b>TOTAL</b>					<b>14</b>	<b>06</b>	<b>08</b>	<b>320</b>	<b>160</b>	<b>480</b>	<b>320</b>	<b>800</b>	<b>24</b>											



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**Bachelor of Science (Physics, Chemistry, Mathematics), 3<sup>rd</sup> Year / 6<sup>th</sup> Semester (Chemistry & Mathematics Group)**

S.N.	Course Code	Course Title	(T) Theory (P) Practical	Course Type	Periods per Week			Evaluation Scheme			End Semester	Subject Total	Total Credit	Attributes							United Nations Sustainable Development Goals (SDGs)				
					Lecture	Tutorial	Practicals	Class Test	Teacher Assessment	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Values	Professional Ethics					
1.	CH308	Spectroscopic Techniques	T	Core	3	1	0	40	20	60	40	100	4	✓		✓									
2.	CH309	Chemical Process Industry	T	Elect.	3	1	0	40	20	60	40	100	4	✓		✓									
3.	CH317	Chemistry of Polymers	T	Elect.										✓	✓	✓									
4.	MT307	Basic Mathematical Modeling	T	Elect.	3	1	0	40	20	60	40	100	4	✓		✓									
5.	MT308	Linear Programming	T	Elect.										✓		✓									
6.	MT305	Statics & Dynamics	T	Core	3	1	0	40	20	60	40	100	4	✓		✓									
7.	MT306	Analysis	T	Core	3	1	0	40	20	60	40	100	4	✓	✓	✓									
8.	CH318	UG Chemistry Project	P	Core	0	0	8	00	00	00	200	200	4	✓	✓	✓									
<b>TOTAL</b>					<b>15</b>	<b>05</b>	<b>08</b>	<b>200</b>	<b>100</b>	<b>300</b>	<b>400</b>	<b>700</b>	<b>24</b>												



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**Bachelor of Science (Physics, Chemistry, Mathematics), 3<sup>rd</sup> Year / 5<sup>th</sup> Semester (Physics & Mathematics Group)**

S.N.	Course Code	Course Title	(T) Theory (P) Practical	Course Type	Periods per Week			Evaluation Scheme			End Semester	Subject Total	Total Credit	Attributes							United Nations Sustainable Development Goals (SDGs)			
					Lecture	Tutorial	Practicals	Class Test	Teacher Assessment	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Values	Professional Ethics				
1.	PY301	Elements of Quantum Mechanics, Atomic & Molecular Spectra	T	Core	3	1	0	40	20	60	40	100	4	✓		✓								
2.	PY302	Classical Mechanics, Relativity & Statistical Physics	T	Core	2	1	0	40	20	60	40	100	3	✓		✓								
3.	PY303	Solid State, Nuclear & Particle Physics	T	Core	2	1	0	40	20	60	40	100	3	✓		✓								
4.	MT301	Advance Calculus	T	Core	3	1	0	40	20	60	40	100	4	✓		✓								
5.	MT302	Mathematical Statistics	T	Core	2	1	0	40	20	60	40	100	3	✓		✓								
6.	MT303	Number Theory	T	Core	2	1	0	40	20	60	40	100	3	✓		✓								
7.	PY304	Advance Electricity & Magnetism Lab	P	Core	0	0	4	40	20	60	40	100	2	✓		✓								
8.	MT304	Statistical Techniques Lab	P	Core	0	0	4	40	20	60	40	100	2	✓		✓								
<b>TOTAL</b>					<b>14</b>	<b>06</b>	<b>08</b>	<b>320</b>	<b>160</b>	<b>480</b>	<b>320</b>	<b>800</b>	<b>24</b>											



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**Bachelor of Science (Physics, Chemistry, Mathematics), 3<sup>rd</sup> Year / 6<sup>th</sup> Semester (Physics & Mathematics Group)**









S.N.	Course Code	Course Title	(T)Theory (P)Practical	Course Type	Periods per Week			Evaluation Scheme			End Semester	Subject Total	Total Credit	Attributes							United Nations Sustainable Development Goals (SDGs)				
					Lecture	Tutorial	Practicals	Class Test	Teacher Assessment	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Values	Professional Ethics					
1.	PY305	Applied Electronics	T	Core	3	1	0	40	20	60	40	100	4	✓		✓									
2.	PY307	Mathematical Methods in Physics	T	Elect.	3	1	0	40	20	60	40	100	4	✓		✓									
3.	PY308	Advanced Solid State Physics	T	Elect.										✓	✓	✓									
4.	MT307	Basic Mathematical Modeling	T	Elect.	3	1	0	40	20	60	40	100	4	✓		✓									
5.	MT308	Linear Programming	T	Elect.										✓		✓									
6.	MT305	Statics & Dynamics	T	Core	3	1	0	40	20	60	40	100	4	✓		✓									
7.	MT306	Analysis	T	Core	3	1	0	40	20	60	40	100	4	✓	✓	✓									
8.	PY309	UG Physics Project	P	Core	0	0	8	00	00	00	200	200	4	✓	✓	✓									
<b>TOTAL</b>					<b>15</b>	<b>05</b>	<b>08</b>	<b>200</b>	<b>100</b>	<b>300</b>	<b>400</b>	<b>700</b>	<b>24</b>												



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Bachelor of Science (Physics, Chemistry, Mathematics), 3<sup>rd</sup> Year / 5<sup>th</sup> Semester (Chemistry & Physics Group)

S.N.	Course Code	Course Title	(T)Theory (P)Practical	Course Type	Periods per Week			Evaluation Scheme			End Semester	Subject Total	Total Credit	Attributes							United Nations Sustainable Development Goals (SDGs)			
					Lecture	Tutorial	Practicals	Class Test	Teacher Assessment	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Values	Professional Ethics				
1.	CH314	Advance Inorganic Chemistry	T	Core	3	1	0	40	20	60	40	100	4	✓		✓								-
2.	CH315	Advance Organic Chemistry	T	Core	2	1	0	40	20	60	40	100	3	✓		✓								-
3.	CH319	Basics of Chromatographic Techniques	T	Core	2	1	0	40	20	60	40	100	3	✓	✓	✓		✓						 
4.	PY301	Elements of Quantum Mechanics, Atomic & Molecular Spectra	T	Core	3	1	0	40	20	60	40	100	4	✓		✓								
5.	PY302	Classical Mechanics, Relativity & Statistical Physics	T	Core	2	1	0	40	20	60	40	100	3	✓		✓								
6.	PY303	Solid State, Nuclear & Particle Physics	T	Core	2	1	0	40	20	60	40	100	3	✓		✓								
7.	CH316	Chemistry Practical-V	P	Core	0	0	4	40	20	60	40	100	2	✓	✓	✓		✓						 
8.	PY304	Advance Electricity & Magnetism Lab	P	Core	0	0	4	40	20	60	40	100	2	✓		✓								
<b>TOTAL</b>					<b>14</b>	<b>06</b>	<b>08</b>	<b>320</b>	<b>160</b>	<b>480</b>	<b>320</b>	<b>800</b>	<b>24</b>											



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					Lecture	Tutorial	Practicals	Class Test	Teacher Assessment	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Values	Professional Ethics							
1.	CH308	Spectroscopic Techniques	T	Core	3	1	0	40	20	60	40	100	4	✓		✓											
2.	CH309	Chemical Process Industry	T	Elect.	3	1	0	40	20	60	40	100	4	✓		✓											
3.	CH317	Chemistry of Polymers	T	Elect.										✓	✓	✓											
4.	PY307	Mathematical Methods in Physics	T	Elect.	3	1	0	40	20	60	40	100	4	✓		✓											
5.	PY308	Advanced Solid State Physics	T	Elect.										✓		✓											
6.	PY305	Applied Electronics	T	Core	3	1	0	40	20	60	40	100	4	✓		✓											
7.	CH310/ PY306	Fundamentals of Food Chemistry / Physics of Materials	T	Core	3	1	0	40	20	60	40	100	4	✓	✓	✓									/		
8.	CH318 / PY309	UG Chemistry Project / UG Physics Project	P	Core	0	0	8	00	00	00	200	200	4	✓	✓	✓										/	
<b>TOTAL</b>					<b>15</b>	<b>05</b>	<b>08</b>	<b>200</b>	<b>100</b>	<b>300</b>	<b>400</b>	<b>700</b>	<b>24</b>														