

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KUMBAKONAM**  
(Curriculum – M.Sc., CHEMISTRY – 2021 – 2022 ONWARDS )

Department : CHEMISTRY

Programme Code : PSCH

**SEMESTER – I**

Course Type	Course Code	Title of the Course	Hrs/Week	Credits	Exam Hrs	Marks			
						CIA	ESE	Total	
Core I	P21CHC101	INORGANIC CHEMISTRY -I	5	5	3	25	75	100	
Core II	P21CHC102	PHYSICAL CHEMISTRY -I	6	5	3	25	75	100	
Core III	P21CHC103P	INORGANIC CHEMISTRY PRACTICAL -I	6	5	6	40	60	100	
Core IV	P21CHC104P	ORGANIC CHEMISTRY PRACTICAL -I	6	3	6	40	60	100	
Major Based Elective - I	Choice I	P21CH1MBE1:1	ORGANIC CHEMISTRY -I (I A)	5	4	3	25	75	100
	Choice II	P21CH1MBE1:2	CHEMISTRY OF NANO SCIENCE (I B)						
	Choice III	P21CH1MBE1:3	SUPRA MOLECULAR CHEMISTRY (I C)						
Skill Enhancement (Theory)	P21CH1SE1	TEXTILE CHEMISTRY	2	2	2	25	75	100	
<b>Total</b>			<b>30</b>	<b>24</b>				<b>600</b>	

**SEMESTER – II**

Course Type	Course Code	Title of the Course	Hrs/Week	Credits	Exam Hrs	Marks			
						CIA	ESE	Total	
Core V	P21CHC205	INORGANIC CHEMISTRY -II	5	5	3	25	75	100	
Core VI	P21CHC206	ORGANIC CHEMISTRY -II	5	5	3	25	75	100	
Core VII	P21CHC207P	INORGANIC CHEMISTRY PRACTICAL -II	5	5	6	40	60	100	
Core VIII	P21CHC208P	ORGANIC CHEMISTRY PRACTICAL -II	6	3	6	40	60	100	
Major Based Elective - II	Choice I	P21CH2MBE2:1	ANALYTICAL CHEMISTRY (II A)	5	4	3	25	75	100
	Choice II	P21CH2MBE2:2	GREEN CHEMISTRY (II B)						
	Choice III	P21CH2MBE2:3	BIO ORGANIC CHEMISTRY (II C)						
Extra Disciplinary (EDC)	P21CH2ED	FOOD & NUTRITION	2	2	2	25	75	100	
Skill Enhancement (Practical)	P21CH2SE2P	TEXTILE CHEMISTRY PRACTICAL	2	1	2	40	60	100	
<b>Total</b>			<b>30</b>	<b>25</b>				<b>700</b>	
Self Study Course -I	P212SS1	GENERAL STUDIES FOR RESEARCH FELLOWSHIP & LECTURERSHIP	-	2	2	-	100	100	
NCGPA (Internship )	INT			2		-	-	-	

**SEMESTER - III**

Course Type	Course Code	Title of the Course	Hrs/Week	Credits	Exam Hrs	Marks			
						CIA	ESE	Total	
Core - IX	P21CHC309	INORGANIC CHEMISTRY -III	6	5	3	25	75	100	
Core - X	P21CHC310	ORGANIC CHEMISTRY-III	6	5	3	25	75	100	
Core - XI	P21CHC311	PHYSICAL CHEMISTRY-II	6	5	3	25	75	100	
Core - XII	P21CHC312P	PHYSICAL CHEMISTRY PRACTICAL-I	6	3	6	40	60	100	
Major Based Elective - III	Choice I	P21CH3MBE3:1	6	4	3	25	75	100	
	Choice II	P21CH3MBE3:2							CHEMISTRY IN EVERYDAY LIFE (III B)
	Choice III	P21CH3MBE3:3							SOLID STATE CHEMISTRY (III C)
<b>Total</b>			<b>30</b>	<b>22</b>				<b>500</b>	
Self Study Course- II	P21CH3SS2	CHEMISTRY FOR COMPETITIVE EXAMINATIONS		2	2	-	100	100	

**SEMESTER - IV**

Course Type	Course Code	Title of the Course	Hrs/Week	Credits	Exam Hrs	Marks			
						CIA	ESE	Total	
Core - XIII	P21CHC413	PHYSICAL CHEMISTRY -III	6	5	3	25	75	100	
Core - XIV	P21CHC414P	PHYSICAL CHEMISTRY PRACTICAL-II	6	4	6	40	60	100	
Core - XV (Project )	P21CHPW415	PROJECT	12	6	-	-	100	100	
Major Based Elective - IV	Choice I	P21CH4MBE4:1	6	4	3	25	75	100	
	Choice II	P21CH4MBE4:2							EXPERIMENTAL METHODS IN CHEMISTRY (IVB)
	Choice III	P21CH4MBE4:3							POLYMER CHEMISTRY (IV C)
<b>Total</b>			<b>30</b>	<b>19</b>				<b>400</b>	

**Course Structure Abstract for**  
**M.Sc., Programme 2021-2022 onwards**

<b>Part</b>	<b>Course</b>	<b>Total No Papers</b>	<b>Hours</b>	<b>Credit</b>	<b>Mark</b>
III	Core Course	14	80	67	1400
III	Core Project	1	12	6	100
III	Major Based Elective Course – IV	4	22	12	400
III	Extra Disciplinary Course (EDC)	1	2	2	100
III	Skill Enhancement (Theory)	1	2	2	100
III	Skill Enhancement (Practical)	1	2	1	100
<b>Total</b>				<b>90</b>	<b>2200</b>
<b>Extra Credit Courses</b>					
Self Study Course		2	-	4	200
NCGPA Course (Internship )		---	-	2	---
Value Added Course		1	-	2	100
<b>Total</b>			<b>120</b>	<b>98</b>	<b>2500</b>





