

NGM COLLEGE CURRICULUM DEVELOPMENT CELL
B. Sc. CHEMISTRY SCHEME OF EXAMINATION FOR 2017 – 2020 BATCH)
CHOICE BASED CREDIT SYSTEM & OBES

FIRST SEMESTER

Course Code	PART	Course	Hrs / Week	Hours Exam	Max. Marks		Total	Credits
					Intl.	S.E		
17UTL101	I	Tamil / Hindi paper – I	6	3	25	75	100	03
17UEN101	II	Applied English -I	5	3	25	75	100	03
17UCY101	III	Core Paper – I Inorganic and Organic chemistry	7	3	25	75	100	04
17UCY203		Core Practical- I Inorganic Qualitative Analysis	2	--	--	--	--	--
17UCY1A1		Allied Mathematics Paper- I	8	3	25	75	100	04
17UHR101	IV	Skill Based Elective Human Rights in India	1	2	--	50	50	02
17HEC101		HE – (Personal values & SKY Yoga practice -I)	1	2	25	25	50	01
	V	Extension Activities (NSS, NCC, Sports & Games)						
							500	17

SECOND SEMESTER

Course Code	PART	Course	Hrs / Week	Hours Exam	Max.Marks		Total	Credits
					Intl.	S.E		
17UTL202	I	Tamil paper – II/ Hindi Paper II	6	3	25	75	100	03
17UEN202	II	Applied English - II	5	3	25	75	100	03
17UCY202	III	Core Paper –II Organic and Physical chemistry	6	3	25	75	100	04
17UCY203		Core Practical- I Inorganic Qualitative Analysis	2	3	40	60	100	03
17UCY2A2		Allied Mathematics Paper-II	8	3	25	75	100	04
17EVS201	IV	Environmental studies	2	2	--	50	50	02
17HEC202		HE – (Family values & SKY Yoga practice -II)	1	2	25	25	50	01
	V	Extension Activities (NSS, NCC, Sports & Games)						
							600	20

Indumathy

Dr. INDUMATHY RAMASAMY M.Sc., Ph.D.,
 Assistant Professor & Head
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Muthukumar

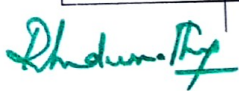
Dr. R. MUTHUKUMARAN,
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THIRD SEMESTER

Course Code	PART	Course	Hrs / Week	Hours Exam	Max. Marks		Total	Credits
					Intl.	S.E		
17UTL303	I	Tamil paper/ Hindi Paper – III	5	3	25	75	100	03
17UEN303	II	English for Excellence-Paper - I	6	3	25	75	100	03
17UCY304	III	Core Paper – III Inorganic and Organic Chemistry	6	3	25	75	100	04
17UCY406		Core Practical II Volumetric and Organic Qualitative Analysis	3	--	--	--	--	--
17UCY3A1		Allied Physics Paper -I	5	3	25	75	100	04
17UCY4A3		Allied Physics Practical for Mathematics and Chemistry	3	--	--	--	--	--
17HEC303	IV	HE – (Professional values & SKY Yoga practice –III)	1	2	25	25	50	01
17UCY3N1/ 17UCY3N2		Skill Based Non Major Elective I Food Science and Technology/ Skill Based Non Major Elective I Chemistry of Consumer Products	1	2	--	50	50	02
	V	Extension Activities (NSS, NCC, Sports & Games)						
							500	17

FOURTH SEMESTER

Course Code	PART	Course	Hrs / Week	Hours Exam	Max. Marks		Total	Credits
					Intl.	S.E		
17UTL404	I	Tamil Paper/ Hindi Paper IV	5	3	25	75	100	03
17UEN404	II	English for Excellence Paper -II	6	3	25	75	100	03
17UCY405	III	Core Paper – IV Inorganic, Organic and Physical Chemistry	6	3	25	75	100	04
17UCY406	III	Core Practical II Volumetric and Organic Qualitative Analysis	3	6	80	120	200	05
17UCY4A2	III	Allied Physics Paper - II	5	3	25	75	100	04
17UCY4A3	III	Allied Physics Practical for Mathematics and Chemistry	3	3	40	60	100	04
17HEC404	IV	HE – (Social Values & SKY Yoga practice -IV)	1	2	25	25	50	01
17UCY4N3/ 17UCY4N4	IV	Skill Based Non Major Elective II Water and Water Treatment Processes/ Skill Based Non Major Elective II Diagnostic Chemistry	1	2	--	50	50	02
17UNC 401/ 17UNS 402/ 17USG 403	V	Extension Activities-NCC/NSS/ Sports and Games				50	50	01
							850	27


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Total	Credits
100	03
100	03
100	04

HoD


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Bloom's Taxonomy Based Assessment Pattern

K1-Remember ; K2- Understanding ; K3- Apply ; K4-Analyze ; K5- Evaluate

1. Theory: 75 Marks Part- I, II, III

(i) TEST- I & II and ESE:

Knowledge Level	Section	Marks	Description	Total
K1	A(Answer all)	10x1=10	MCQ/Define	75
K2	B (Either or pattern)	5x5=25	Short Answers	
K3& K4	C(Answer 4 out of 6 and Question No. 16 is compulsory, 17-21 Answer any Three)	4x10=40	Descriptive/ Detailed	

2. Theory: 50 Marks Part - IV

Knowledge Level	Section	Marks	Description	Total
K1	A(Answer all)	10x1=10	MCQ/Define	50
K2	B (Answer 5 out of 8)	5 x 8 =40	Descriptive/ Detailed	
K3& K4				

3. Practical Examinations Part – III (D1 Core & Allied Practicals)

Knowledge Level	Section	Marks	Total
K3	Practicals & Record work	60	100
K4		40	
K5			

4. Practical Examinations Part – III (D2 & D3 Core Practicals)

Knowledge Level	Section	Marks	Total
K3	Practicals & Record work	120	200
K4		80	
K5			


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5. Project Part – III (D3 Core Paper)

Knowledge Level	Section	Marks	Total
K3	Project & Dissertation	60	100
K4		40	
K5			

Components of Continuous Assessment

Components		Calculation	CIA Total
Test 1	75	$75+75+25$ 7	25
Test 2	75		
Assignment/Seminar	25		

Components of Continuous Assessment (D3 & D2 Core Practicals)

Components		Calculation	CIA Total
Model	40	$40+20+20$	80
Skilled	20		
Record	20		

Components of Continuous Assessment (D1 & Allied Practicals)

Components		Calculation	CIA Total
Model	20	$20+10+10$	40
Skilled	10		
Record	10		


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Programme code:	B.Sc.	Programme Title :	CHEMISTRY	
Course Code:	17UCY616	Title	Batch :	2017-2020
		Core Elective Paper-III	Semester	VI
Hrs/Week:	6	Project	Credits:	5

Course Objective

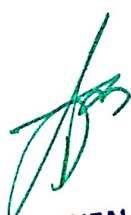
To enable the students to

- acquire knowledge about the qualitative analysis of potable water
- gain awareness about research
- create research aptitude

Course Outcome

Knowledge Level	CO Number	CO Statement
K4	CO1	To understand the importance of analyzing the quality of potable water
K4, K3	CO2	To analyse, compare and interpret the results of water quality in all the locations
K4, K5	CO3	To decide and interpret the precautionary measures to be taken to save and improve the quality of water in different locations


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Syllabus

Unit	Content	Hrs
	To test the quality of potable water in and around Pollachi taluk and assign the geochemical type of water available. To create awareness among the people about the quality of drinking water presently used by them and to take necessary precautionary measures to save and improve the quality of water in their area.	
	Total Hrs/semester	78

Teaching Methods

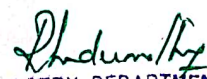
Field work, lab analysis, Power point presentations, Group discussions, Seminar, Lab activity, Quiz, Assignment, Experience Discussions, Demonstration,

Text Book

S.No.	Author(s)	Title of the Book	Publisher	Year of Publication
1.	Satinder Ahuja	Monitoring water quality, 1 st edition	Elsevier Publications	2013

Reference Book

S.No.	Author(s)	Title of the Book	Publisher	Year of Publication
1.		Standard Methods for the Examination of Water and Wastewater, 22 nd edition	APHA, AWWA and WEF	2012


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Mapping with Programme Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	S	S	H
CO2	H	S	H	S	S
CO3	S	S	S	H	S

S-Strong; H-High; M-Medium; L-Low


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B. Sc. CHEMISTRY SCHEME OF EXAMINATION FOR 2018 – 2021 BATCH)

CHOICE BASED CREDIT SYSTEM & OBES

FIRST SEMESTER								
Course Code	PART	Course	Hrs / Week	Hours Exam	Max. Marks		Total Marks	Credits
					Int.	S.E		
18UTL101	I	Tamil / Hindi paper – I	6	3	25	75	100	03
18UEN101	II	Applied English – I	5	3	25	75	100	03
18UCY101	III	Core Paper – I Inorganic and Organic chemistry	7	3	25	75	100	04
18UCY203		Core Practical- I Inorganic Qualitative Analysis	2	--	--	--	--	--
18UCY1A1		Allied Mathematics Paper - I	8	3	25	75	100	04
18UHRI01	IV	Skill Based Elective : Human Rights in India	1	2	--	50	50	02
18HEC101		HE – (Personal values & SKY Yoga practice -I)	1	2	25	25	50	01
	V	Extension Activities (NSS, NCC, Sports & Games						
							500	17

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SECOND SEMESTER								
Course Code	PART	Course	Hrs / Week	Hrs/ Exam	Max. Marks		Total Marks	Credits
					Int.	S.E		
18UTL202	I	Tamil paper – II / Hindi Paper II	6	3	25	75	100	03
18UEN202	II	Applied English - II	5	3	25	75	100	03
18UCY202	III	Core Paper –II : Organic and Physical chemistry	6	3	25	75	100	04
18UCY203		Core Practical- I Inorganic Qualitative Analysis	2	3	40	60	100	03
18UCY2A2		Allied Mathematics Paper-II	8	3	25	75	100	04
18EVS201	IV	Environmental studies	2	2	--	50	50	02
18HEC202		HE – (Family values & SKY Yoga practice -II)	1	2	25	25	50	01
	V	Extension Activities (NSS, NCC, Sports & Games)						
							600	20

THIRD SEMESTER								
Course Code	PART	Course	Hrs / Week	Hours Exam	Max. Marks		Total	Credits
					Int.	S.E		
18UTL303	I	Tamil paper/ Hindi Paper – III	5	3	25	75	100	03
18UEN303	II	English for Excellence- Paper – I	6	3	25	75	100	03
18UCY304		Core Paper – III	6	3	25	75	100	04


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	III	Inorganic and Physical Chemistry						
18UCY406		Core Practical II Volumetric and Organic Qualitative Analysis	3	--	--	--	--	--
18UCY3A1		Allied Physics Paper -I	5	3	25	75	100	04
18UCY4A3		Allied Physics Practical for Mathematics and Chemistry	3	--	--	--	--	--
18HEC303		HE – (Professional values & SKY Yoga practice –III)	1	2	25	25	50	01
18UCY3N1/ 18UCY3N2	IV	Skill Based Non Major Elective I Food Science and Technology/ Skill Based Non Major Elective I Chemistry of Consumer Products	1	2	--	50	50	02
	V	Extension Activities (NSS, NCC, Sports & Games)						
							500	17

FOURTH SEMESTER								
Course Code	PART	Course	Hrs / Week	Hours Exam	Max. Marks		Total	Credits
					Int.	S.E		
18UTL404	I	Tamil Paper/ Hindi Paper IV	5	3	25	75	100	03
18UEN404	II	English for Excellence Paper –II	6	3	25	75	100	03
18UCY405		Core Paper – IV Inorganic, Organic and Physical Chemistry	6	3	25	75	100	04



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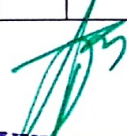


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18UCY406	III	Core Practical II Volumetric and Organic Qualitative Analysis	3	6	80	120	200	05
18UCY4A2		Allied Physics Paper - II	5	3	25	75	100	04
18UCY4A3		Allied Physics Practical for Mathematics and Chemistry	3	3	40	60	100	04
18HEC404	IV	HE – (Social Values & SKY Yoga practice -IV)	1	2	25	25	50	01
18UCY4N3/ 18UCY4N4		Skill Based Non Major Elective II Water and Water Treatment Processes/ Skill Based Non Major Elective II Diagnostic Chemistry	1	2	--	50	50	02
18UNC401/ 18UNS402/ 18USG 403		Extension Activities- NCC/NSS/ Sports and Games				50	50	01
							850	27

FIFTH SEMESTER								
Course Code	PART	Course	Hrs / Week	Hrs/ Exam	Max. Marks		Total	Credits
					Int.	S.E		
18UCY507	III	Core Paper – V Nuclear and Co-ordination Chemistry	4	3	25	75	100	04
18UCY508		Core Paper – VI Organic Chemistry- I	4	3	25	75	100	04
18UCY509		Core Paper – VII Electro Chemistry	4	3	25	75	100	04
18UCY510		Core Paper- VIII	4	3	25	75	100	04


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		Dye Chemistry						
18UCY511		Core Elective I- Analytical Chemistry	4	3	25	75	100	04
18UCY512		Core Elective Practical- Application Oriented Practicals	2	3	40	60	100	02
18UCY618		Core Practical III Gravimetric Analysis and Physical Chemistry	6	--	--	--	--	--
18UCY5S1/ 18UCY5S2	IV	Skill Based Elective -I Food Chemistry/ Skill Based Elective -I Nano chemistry	1	2	--	50	50	02
18GKL501		General Knowledge& General Awareness	SS	2	--	50	50	02
18HEC505		HE – (National Values & SKY Yoga practice -V)	1	2	25	25	50	01
							750	27

SIXTH SEMESTER								
Course Code	PART	Course	Hrs / Week	Hrs/ Exam	Max.Marks		Total	Credits
					Int.	S.E		
18UCY613	III	Core Paper – IX Physical Methods and Chemical Structure	4	3	25	75	100	05
18UCY614		Core Paper – X Organic Chemistry-II	4	3	25	75	100	04
18UCY615		Core Paper – XI Chemical Kinetics and Photo Chemistry	4	3	25	75	100	05
18UCY616		Core Elective II- Polymer Chemistry	4	3	25	75	100	05
18UCY617		Project work	6	-	25	75	100	05


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18UCY618		Core Practical III Gravimetric Analysis and Physical Chemistry	6	6	80	120	200	05
18UCY6S3/ 18UCY6S4	IV	Skill Based Elective -II Green chemistry / Skill Based Elective -II Theory behind practical chemistry	1	2	--	50	50	02
18HEC606		HE - (Global values & SKY Yoga practice -VI)	1	2	25	25	50	01
							800	32
		GRAND TOTAL					4000	140



HoD

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Bloom's Taxonomy Based Assessment Pattern

K1-Remember; K2- Understanding; K3- Apply; K4-Analyze; K5- Evaluate

1. Theory: 75 Marks Part- I, II, III

(i) TEST- I & II and ESE:

Knowledge Level	Section	Marks	Description	Total
K2	A(Answer all)	10x1=10	MCQ/Define	75
K2	B (Either or pattern)	5x5=25	Short Answers	
K3& K4	C(Answer 4 out of 6 and Question No. 16 is compulsory, 17-21 Answer any Three)	4x10=40	Descriptive/ Detailed	

2. Theory: 50 Marks Part - IV

Knowledge Level	Section	Marks	Description	Total
K2	A(Answer all)	10x1=10	MCQ/Define	50
K2 K3& K4	B (Answer 5 out of 8)	5 x 8 =40	Descriptive/ Detailed	

3. Practical Examinations Part – III (D1 Core, D3 Core Elective Practical & Allied Practicals)

Knowledge Level	Section	Marks	Total
K3	Practicals & Record work	60	100
K4			
K5		40	

4. Practical Examinations Part – III (D2 & D3 Core Practicals)

Knowledge Level	Section	Marks	Total
K3	Practicals & Record work	120	200
K4		80	
K5			


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5. Project Part – III (D3 Core Paper)

Knowledge Level	Section	Marks	Total
K3	Project & Dissertation	60	100
K4		40	
K5			

6. Theory - part IV (D3 SBE)

Knowledge Level	Section	Marks	Description	Total
K2, K3 & K4	Answer any 50	50x1=50	MCQ	50

Components of Continuous Assessment

Components		Calculation	CIA Total
Test 1	75	$75+75+25$ 7	25
Test 2	75		
Assignment/Seminar	25		

Components of Continuous Assessment (D3 & D2 Core Practicals)

Components		Calculation	CIA Total
Model	40	$40+20+20$	80
Skilled	20		
Record	20		

Components of Continuous Assessment (D1 & D2 Core Elective Practicals And ~

Components		Calculation	CIA Total
Model	20	$20+10+10$	40
Skilled	10		

Programme code:	B.Sc.	Programme Title :	CHEMISTRY	
Course Code:	18UCY617	Title	Batch :	2018-2021
		Core Elective Paper-III	Semester	VI
Hrs/Week:	6	Project	Credits:	5

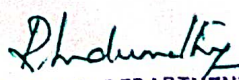
Course Objective

To enable the students to

- acquire knowledge about the qualitative analysis of potable water
- gain awareness about research
- create research aptitude

Course Outcome

Knowledge Level	CO Number	CO Statement
K4	CO1	To understand the importance of analyzing the quality of potable water
K4, K3	CO2	To analyse, compare and interpret the results of water quality in all the locations
K4, K5	CO3	To decide and interpret the precautionary measures to be taken to save and improve the quality of water in different locations


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Syllabus

Unit	Content	Hrs
	To test the quality of potable water in and around Pollachi taluk and assign the geochemical type of water available. To create awareness among the people about the quality of drinking water presently used by them and to take necessary precautionary measures to save and improve the quality of water in their area.	
	Total Hrs/semester	78

Teaching Methods

Field work, lab analysis, Power point presentations, Group discussions, Seminar, Lab activity, Quiz, Assignment, Experience Discussions, Demonstration,

Text Book

S.No.	Author(s)	Title of the Book	Publisher	Year of Publication
1.	Satinder Ahuja	Monitoring water quality, 1 st edition	Elsevier Publications	2013

Reference Book

S.No.	Author(s)	Title of the Book	Publisher	Year of Publication
1.		Standard Methods for the Examination of Water and Wastewater, 22 nd edition	APHA, AWWA and WEF	2012


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Mapping with Programme Outcomes

CO \ PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	S	S	S	H
CO2	H	S	H	S	S
CO3	S	S	S	H	S

S-Strong; H-High; M-Medium; L-Low


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B. Sc. CHEMISTRY SCHEME OF EXAMINATION FOR 2019 – 2022 BATCH)

CHOICE BASED CREDIT SYSTEM & OBES

FIRST SEMESTER								
PART	Course Code	Course title	Hrs / Week	Hours Exam	Max. Marks		Total Marks	Credits
					Int.	S.E		
I	19UTL101	Tamil / Hindi paper – I	6	3	25	75	100	03
II	19UEN101	Applied English –I	5	3	25	75	100	03
III	19UCY101	Core Paper – I Inorganic and Organic chemistry	7	3	25	75	100	04
	19UCY203	Core Practical- I Inorganic Qualitative Analysis	2	--	--	--	--	--
	19UCY1A1	Allied Mathematics Paper- I	8	3	25	75	100	04
IV	19UHR101	Human Rights	1	2	--	50	50	02
	19HEC101	HE – (Personal values & SKY Yoga practice -I)	1	2	25	25	50	01
V		Extension Activities See Annexure -I						
							500	17

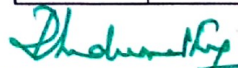
SECOND SEMESTER								
PART	Course Code	Course	Hrs / Week	Hrs/Exam	Max.Marks		Total Marks	Credits
					Int.	S.E		
I	19UTL202	Tamil paper-II/Hindi Paper-II	6	3	25	75	100	03
II	19UEN202	Applied English - II	5	3	25	75	100	03
III	19UCY202	Core Paper-II Organic and Physical chemistry	6	3	25	75	100	04
	19UCY203	Core Practical- I Inorganic Qualitative Analysis	2	3	40	60	100	03
	19UCY2A2	Allied Mathematics Paper-II	8	3	25	75	100	04
IV	19EVS201	Environmental studies	2	2	--	50	50	02
	19HEC202	HE – (Family values & SKY Yoga practice -II)	1	2	25	25	50	01
V		Extension Activities See Annexure -I						
							600	20


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THIRD SEMESTER								
PART	Course Code	Course	Hrs / Week	Hours Exam	Max. Marks		Total	Credits
					Int.	S.E		
I	19UTL303	Tamil paper/ Hindi Paper – III	5	3	25	75	100	03
II	19UEN303	English for Excellence- Paper – I	6	3	25	75	100	03
III	19UCY304	Core Paper – III Inorganic and Physical Chemistry	6	3	25	75	100	04
	19UCY406	Core Practical II Volumetric and Organic Qualitative Analysis	3	--	--	--	--	--
	19UCY3A1	Allied Physics Paper –I	5	3	25	75	100	04
	19UCY4A3	Allied Physics Practical for Mathematics and Chemistry	3	--	--	--	--	--
IV	19HEC303	HE – (Professional values & SKY Yoga practice –III)	1	2	25	25	50	01
	19UCY3N1/	Non Major Elective I Food Science and Technology/ Non Major Elective I Chemistry of Consumer Products	1	2	--	50	50	02
	19UCY3N2							
V		Extension Activities See Annexure -I						
							500	17

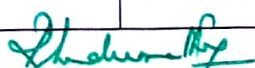
FOURTH SEMESTER								
PART	Course Code	Course	Hrs / Week	Hours Exam	Max. Marks		Total	Credits
					Int.	S.E		
I	19UTL404	Tamil Paper/ Hindi Paper IV	5	3	25	75	100	03
II	19UEN404	English for Excellence Paper –II	6	3	25	75	100	03

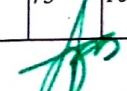

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III	19UCY405	Core Paper – IV Inorganic, Organic and Physical Chemistry	6	3	25	75	100	04
	19UCY406	Core Practical II Volumetric and Organic Qualitative Analysis	3	6	40	60	100	05
	19UCY4A2	Allied Physics Paper – II	5	3	25	75	100	04
	19UCY4A3	Allied Physics Practical for Mathematics and Chemistry	3	3	40	60	100	04
IV	19HEC404	HE – (Social Values & SKY Yoga practice -IV)	1	2	25	25	50	01
	19UCY4N3/ 19UCY4N4	Skill Based Non Major Elective II Water and Water Treatment Processes/ Skill Based Non Major Elective II Diagnostic Chemistry	1	2	--	50	50	02
V		Extension Activities See Annexure -I				50	50	01
			750					27

FIFTH SEMESTER								
PART	Course Code	Course	Hrs / Week	Hrs/ Exam	Max. Marks		Total	Credits
					Int	S.E		
III	19UCY507	Core Paper – V Nuclear and Co-ordination Chemistry	4	3	25	75	100	04
	19UCY508	Core Paper – VI Organic Chemistry- I	4	3	25	75	100	04
	19UCY509	Core Paper – VII Electro Chemistry	4	3	25	75	100	04
	19UCY510	Core Paper- VIII Dye Chemistry	4	3	25	75	100	04
	19UCY5E1	Core Elective I- Analytical Chemistry	4	3	25	75	100	04


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IV	19UCY5E2	Core Elective Practical- Application Oriented Practical	2	3	40	60	100	02
	19UCY615	Core Practical III Gravimetric Analysis and Physical Chemistry	6	--	--	--	--	--
	19UCY5S1 / 19UCY5S2	Skill Based Elective -I Network and Information Security/ Skill Based Elective -I Cyber Security-Ethical Hacking	1	2	--	50	50	02
	19GKL501	General Knowledge & General Awareness	SS	2	--	50	50	02
	19HEC505	HE - (National Values & SKY Yoga practice -V)	1	2	25	25	50	01
							750	27

SIXTH SEMESTER								
PART	Course Code	Course	Hrs / Week	Hrs/ Exam	Max.Marks		Total	Credits
					Int.	S.E		
III	19UCY611	Core Paper – IX Physical Methods and Chemical Structure	4	3	25	75	100	05
	19UCY612	Core Paper – X Organic Chemistry-II	4	3	25	75	100	04
	19UCY613	Core Paper – XI Chemical Kinetics and Photo Chemistry	4	3	25	75	100	05
	19UCY6E3	Core Elective III- Polymer Chemistry	4	3	25	75	100	05
	19UCY614	Project work	6	-	20	80	100	05
	19UCY615r	Core Practical III Gravimetric Analysis and Physical Chemistry	6	6	80	120	200	05


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IV	19UCY6S3/	Skill Based Elective –II Green chemistry /	1	2	--	50	50	02
	19UCY6S4	Skill Based Elective -II Theory behind practical chemistry						
	19HEC606	HE – (Global values & SKY Yoga practice -VI)	1	2	25	25	50	01
							800	32
		GRAND TOTAL					3900	140


HoD

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Bloom's Taxonomy Based Assessment Pattern

K1-Remember; K2- Understanding; K3- Apply; K4-Analyze; K5- Evaluate

1. Theory: 75 Marks Part- I, II, III

(i) TEST- I & II and ESE:

Knowledge Level	Section	Marks	Description	Total
K1, K2	A(Answer all)	10x1=10	MCQ/Define	75
K3	B (Either or pattern)	5x5=25	Short Answers	
K4& K5	C(Answer 4 out of 6 and Question No. 16 is compulsory, 17-21 Answer any Three)	4x10=40	Descriptive/ Detailed	

2. Theory: 50 Marks Part - IV

Knowledge Level	Section	Marks	Description	Total
K1, K2	A(Answer all)	10x1=10	MCQ/Define	50
K3 K4& K5	B (Answer 5 out of 8)	5 x 8 =40	Descriptive/ Detailed	

3. Practical Examinations Part – III (D1,D2 Core, D3 Core Elective Practical & Allied Practicals)-

Knowledge Level	Section	Marks	Total
K3	Practicals & Record work	60	100
K4			
K5		40	

4. Practical Examinations Part – III (D3 Core Practical)

Knowledge Level	Section	Marks	Total
K3	Practicals & Record work	120	200
K4		80	
K5			


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5. Project Part – III (D3 Core Paper)

Knowledge Level	Section	Marks	Total
K3	Project & Dissertation	60	100
K4		40	
K5			

6. Theory - part IV (D3 SBE)

Knowledge Level	Section	Marks	Description	Total
K2, K3 & K4	Answer any 50	50x1=50	MCQ	50

Components of Continuous Assessment

Components		Calculation	CIA Total
Test 1	75	$\frac{75+75+25}{7}$	25
Test 2	75		
Assignment/Seminar	25		

Components of Continuous Assessment (D3 & D2 Core Practicals)

Components		Calculation	CIA Total
Model	40	40+20+20	80
Skilled	20		
Record	20		

Components of Continuous Assessment (D1 Core, D3 Core Elective practical & Allied Practicals)

Components		Calculation	CIA Total
Model	20	20+10+10	40
Skilled	10		
Record	10		

Programme code:	B.Sc.	Programme Title :	CHEMISTRY	
Course Code:	19UCY617	Title	Batch :	2019-2022
		Core Elective Paper-III	Semester	VI
Hrs/Week:	6	Project	Credits:	5

Course Objective

To enable the students to

- ☐ acquire knowledge about the qualitative analysis of potable water
- ☐ gain awareness about research
- ☐ create research aptitude

Course Outcome

Knowledge Level	CO Number	CO Statement
K4	CO1	To understand the importance of analyzing the quality of potable water
K4, K3	CO2	To analyse, compare and interpret the results of water quality in all the locations
K4, K5	CO3	To decide and interpret the precautionary measures to be taken to save and improve the quality of water in different locations

Syllabus

Unit	Content	Hrs
	To test the quality of potable water in and around Pollachi taluk and assign the geochemical type of water available. To create awareness among the people about the quality of drinking water presently used by them and to take necessary precautionary measures to save and improve the quality of water in their area.	
	Total Hrs/semester	78

Teaching Methods

Field work, lab analysis, Power point presentations, Group discussions, Seminar, Lab activity, Quiz, Assignment, Experience Discussions, Demonstration.

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Text Book

S.No.	Author(s)	Title of the Book	Publisher	Year of Publication
1.	Satinder Ahuja	Monitoring water quality, 1 st edition	Elsevier Publications	2013

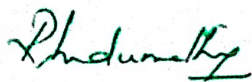
Reference Book

S.No.	Author(s)	Title of the Book	Publisher	Year of Publication
1.		Standard Methods for the Examination of Water and Wastewater, 22 nd edition	APHA, AWWA and WEF	2012

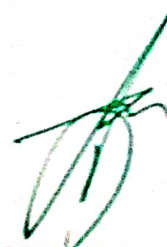
Mapping with Programme Outcomes

CO	PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1		S	S	S	S	H
CO2		H	S	H	S	S
CO3		S	S	S	H	S

S-Strong; H-High; M-Medium; L-Low



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