MASTER OF SCIENCE Chemistry

Programme Project Report (PPR)

Course Co-ordinator(s)
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Tirupati



CENTRE FOR DISTANCE AND ONLINE EDUCATION (CDOE) SRI VENKATESWARA UNIVERSITY

Accredited by "NAAC" with A Grade

Tirupati, Andhra Pradesh – 517 502 www.svucdoe.ac.in

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PROGRAMME PROJECT REPORT (PPR) **MASTER OF SCIENCE - Chemistry**

VISION:

To develop skillful and qualified psychologists by providing theoretical and experimental

learning in all applied areas of Psychology to disseminate the knowledge to the community for a

healthy society.

MISSION:

To help the students' masters and keep abreast the knowledge in all fields of psychology.

To equip the students with different techniques to apply in the field essentially and

develop their career accordingly

To support research and areas of research necessary for the advancement of knowledge in

all discipline

To analyze their strength and promote self-esteem confidence and well-being through

education and support services.

Programme Objectives

Students will gain necessary knowledge and develop specialized skills in the different

areas of psychology.

Students will think, predict, evaluate critically and analyse the human behaviour with the

help of psychological applications to cater the needs of Local al and global problems.

Students will be able to implement the scientific skills for development of educational,

vocational, adolescent, family, different organisations etc.,

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Relevance of the program with HEI'S Mission and Goals: The ODL programs are designed

to equip students with the knowledge, skills, and competencies they need to be successful in their

chosen areas. By providing opportunities for professional advancement, the courses assist the

SVU in achieving its goal of producing graduates with a diverse set of abilities who are prepared

for the demands of the workforce.

Nature of Target Group Learners: The target group of learners for this programme is Teachers

with low qualifications and others who are not able to join the informal education system due to

several reasons. Besides these fresh graduates are not able to join in regular mode due to various

reasons.

Appropriateness of the Programme with Quality Assurance for Acquiring Specific Skills:

The programme is designed by eminent experts in the subjects on par with formal education. The

PPR is designed appropriately for the development of the professional and occupational

standards of the teaching community and to develop skills and competencies among various field

experts. The programme is prepared for changing needs of society with high quality and

structure.

1. Preamble:

M.Sc- Chemistry (P.G Degree) Programme is of two academic years with each academic year

being divided into two consecutive (one odd + one even) semesters.

Choice-Based Credit System (CBCS) is a flexible system of learning and provides choice

for students to select from the prescribed elective courses. A course defines learning objectives

and learning outcomes and comprises of lectures/tutorials/laboratory work/field work/project

work/viva/seminars/ assignments/ presentations/ self-study etc. or a combination of some of

these.

Under the CBCS, the requirement for awarding a degree is prescribed in terms of number

of credits to be completed by the students.

The CBCS permits students to:

• Choose electives from a wide range of courses offered by the Departments of the

College/University.

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• Opt for additional courses of interest

• adopt an inter-disciplinary approach in learning

• make the best use of expertise of the available faculty.

• Skill Oriented Course and Multidisciplinary Course/Project are introduced as per

Action Plan of National Education Policy-NEP-2020

2. Minimum Qualification:

Minimum qualification for seeking admission into a specialization of P.G Degree Programme is

U.G Degree, with at least 40% marks for general and pass marks for SC/ST in aggregate,

awarded by Sri Venkateswara University (SVU) in the appropriate Branch of learning or any

other equivalent examination recognized by other Higher Education Institution and Universities.

3. Programme Duration:

3.1 Minimum duration of the full-time P.G Programme is two consecutive academic years

i.e., four semesters and maximum period is four academic years.

3.2 Semester:

Generally, each semester shall consist of 90 actual instruction days including the sessional test

days. However, instructional days may be reduced up to 72, when necessary, with increased

instructional hours per course per week.

4. Credits:

Credit defines the quantum of contents/syllabus prescribed for a course and determines the

number of instruction hours per week. The norms for assigning credits to a course for a duration

of one semester shall be as follows:

• One credit for every one hour of lecture/tutorial per week

• One credit for every two hours of practical work/seminar per week

• 4 credits in a semester for project work.

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5. Classification of Courses:

The courses of each specialization of study are classified into Core Courses and Elective Courses and Foundation courses. It is mandatory for a student to complete successfully all the Core and Elective courses pertaining to his/her of specialization of study.

Semester-I

Sl.no	Components of Study	Title of the Course		Credit Hrs / Week	No. of Credit	IA Marks	Sem End Exam Marks	Total
1.		1		6	4	20	80	100
2.	Core	2	Mandatory	6	4	20	80	100
3.		3		6	4	20	80	100
4.		4		6	4	20	80	100
	C	5a						
5.	Compulsory Foundation	5b	Opt- 1	6	4	20	80	100
	Foundation	5c						
(Elective	6a	Ont. 1	6	4	20	80	100
6.	Foundation	6b	Opt- 1					100
Total				36	24	120	480	600
7.	Audit Course			0	0	100		

^{*}All CORE Papers are Mandatory

- Compulsory Foundation Choose one paper
- Elective Foundation Choose one paper.
- Audit Course 100 Marks (Internal) Zero Credits under Self Study
- Interested students may register for MOOC with the approval of the concerned DDC but it will be considered for the award of the grade as open elective only giving extra credits.

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Semester-II

Sl.no	Components of Study	Title of	the Course	Credit Hrs / Week	No. of Credit	IA Marks	Sem End Exam Marks	Total
1.		1		6	4	20	80	100
2.	Core	2	Mandatory	6	4	20	80	100
3.		3		6	4	20	80	100
4.		4		6	4	20	80	100
5.	Compulsory Foundation	5a 5b 5c	Opt-1	6	4	20	80	100
6.	Elective Foundation	6a 6b	Opt-1	6	4	20	80	100
	Total			36	24	120	480	600
7.	Audit Course			0	0	100		

^{*}All CORE Papers are Mandatory

- Compulsory Foundation Choose one paper
- Elective Foundation Choose one paper.
- Audit Course 100 Marks (Internal) Zero Credits under self Study
- Interested students may register for MOOC with the approval of the concerned DDC but it will be considered for the award of the grade as open elective only giving extra credits.

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Semester-III

Sl.no	Components of Study	Title of	the Course	Credit Hrs / Week	Hrs / No. of Credit		Sem End Exam Marks	Total
1.	Coro	1	Mandatory	6	4	20	80	100
2.	Core	2		6	4	20	80	100
4.	Generic Elective	4a 4b 4c 4d	Opt-2	6	4	20 20	80 80	100
5.	Skill Oriented Course	5	Mandatory	6	4	20	80	100
6.	Open Elective	6a 6b	Opt- 1	6	4	20	80	100
	Total			36	24	120	480	600

^{*} All CORE Papers are Mandatory

- Generic Elective Choose two
- Skill Oriented Course is Mandatory
- Open Electives are for the Students of other Departments. Minimum One Paper should be opted. Extra credits may be earned by opting for more number of open electives depending on the interest of the student through self study.
- Interested students may register for MOOC with the approval of the concerned DDC.

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Semester-IV

Sl.no	Components of Study	Title of the Course		Credit Hrs / Week	No. of Credit	IA Marks	Sem End Exam Marks	Total
1.	Core	1	Mandatory	6	4	20	80	100
2.		2	Manuatory	6	4	20	80	100
3.	Generic Elective	3a 3b 3c 3d	Opt-2	6	4	20 20	80 80	100 100
4.	Multidisciplinary Course / Project Work	4	Mandatory	6	4	20	80	100
5.	Open Elective	5a 5b	Opt- 1	6	4	20	80	100
	Total			36	24	120	480	600

- * All CORE Papers are Mandatory
 - Generic Elective Choose two
 - Multidisciplinary Course / Project work is Mandatory.
 - Open Electives are for the Students of other Departments. Minimum One Paper should be opted. Extra credits may be earned by opting for more number of open electives depending on the interest of the student through self study.
 - Interested students may register for MOOC with the approval of the concerned DDC.

5.1 Core Course

There may be a core course in every semester. This is the course which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

5.2 Elective Course

Elective course is a course which can be chosen from a pool of papers. It may be:

- Supportive to the discipline of study
- Provide a expanded scope
- Enable an exposure to some other discipline/domain
- Nurture student's proficiency/skill.

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5.2.1. An elective may be "Generic Elective" focusing on those courses which add generic

proficiency to the students. These electives shall be "Discipline centric". Three or Four papers

may be offered, of which Two may be chosen.

5.2.2 Skill Oriented Course and Multidisciplinary Course / Project are introduced as per Action

Plan of National Education Policy – NEP -2020.

5.2.3 An elective may be "Open Elective" and shall be offered for other Disciplines only.

Atleast one paper must be chosen for study as mandatory. More than one paper may be studied

through self study.

5.3 Foundation Course:

The Foundation Courses may be of two kinds: Compulsory Foundation and Elective foundation,

"Compulsory Foundation" courses are the courses based upon the content that leads to

Knowledge enhancement. They are mandatory for all discipline. Elective Foundation courses are

value-based and are aimed at man-making education.

5.4 Audit Courses: (100 Marks (Internal) – Zero Credits)

The main aim of the Audit Courses is to the aware of the contemporary societal issues. This

course is under Self Study.

5.5 MOOCS and e-Learning:

Discipline centric elective course through MOOCS (Massive Open Online Course) platform.

Students of I, II and/or III semesters can register for the courses/offered by authorized

Institutions/Agencies through online with the approval of the DDC concerned. The certificate

issued by the Institutions/Agencies after successful completion of the course will be considered

for the award of the Grade to that course in open electives category only.

Further, 30-40% of the syllabus of any one course in I, II and III semesters may be taught

through e-Learning.

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6 Course Registration:

Every student has to register for the set of Courses offered by the Department in that Semester

including those of Open Elective course of the other Departments and MOOCS courses with the

total number of their Credits being limited by considering the permissible weekly contact hours.

7 Credits Required for Award of Degree:

A student shall become eligible for the award of P.G degree, if he/she earns a minimum of 96

credits by passing all the core and electives along with practicals, seminars, comprehensive viva-

voce prescribed for the programme.

7.1 It is mandatory for a student to complete successfully all the core courses pertaining to

his/her specialization of study.

7.2 A student may choose Generic Electives from the list of elective courses offered from his/her

specialization of study.

7.3 Further, a student may select from a list of Elective courses from other Departments as Open

Electives to "suit the required" number of credits, such that the total credits is atleast 96.

7.4 There should be a register maintained by the Head of the Department indicating for each

student, the course (s) registered by the student within the department, so that "Generic

Electives" opted by the student are indicated.

7.5 In the case of Open Elective, the Head of the Department should prepare a statement /register

indicating the courses choosen/ opted by the students of the department in other departments.

7.6 The Head of the Department should send the list of registered papers (opted by the students)

to the principal with a copy to the controller of examinations immediately with in a week of

commencement of each semester.

7.7 A copy of the courses registered by the students in each semester approved by the Principal

shall be sent to the Academic Branch as well as Examination Branch.

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7.8 The list of students registered for Mooc's shall be furnished giving details of the programme

with a copy to the Principle and Controller of Examinations.

7.9 A model of Registers to be maintained by the Head of the Department is given in the

Annexure. It is mandatory on the part of the Head of the Department to maintain Register for

each UG/PG Course separately.

8. Scheme of Instruction:

The Board of Studies (BOS) of each specialization shall formulate the scheme of instruction and

detailed syllabi. For every course learning objectives and learning outcomes should be defined.

While formulating the scheme of instruction, the BOS shall facilitate to offer the minimum

number of credits for the entire Programme. The syllabi of theory courses shall be organized into

four / five units of equal weight. The question paper for the Semester end University

Examination in theory course shall consist of four / five units, two questions from each unit of

syllabus carrying a total of 60 marks. There shall be short answer questions for a total of 20

marks.

8.1 Part A contains of 20 marks with two short question from each unit out of which the student

has to answer five questions with each question carrying 4 marks with a total of 20marks.

Examination in theory shall consist of five units in each paper, two questions from each

unit of syllabus out of which a student shall answer one question carrying 12 marks for each

question with a total of 60 marks.

In case of any course / programme having practicals out of the total 80 marks, the theory

shall consist of 50 marks and practicals 30 marks. Out of the total theory marks of 50, section A

carries 10 marks and Section B 40 marks. Section A contains 8 short questions out of which 5

should be answered, each question carrying 2 marks.

In Section B, out of 10 questions 5 are to be answered with internal choice each question

carrying 8 marks.

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10. Evaluation

10.1 Evaluation shall be done on a continuous basis i.e. through Continuous Internal Evaluation

(CIE) in the Semester and Semester End Examination (SEE). For each theory course, there shall

be two internal tests of two hours duration carrying 20 marks each and one Semester end

Examination of 3 hours duration carrying 80 marks. Internal marks for a maximum of 20 shall be

awarded based on the average performance of the two internal tests.

10.2 The first internal test shall be held immediately after the completion of 50% of the

instruction days covering 50% of the syllabus. The second internal test shall be held immediately

after the completion of 90 instruction days covering the remaining 50% of the syllabus.

10.3 It is mandatory for a student to attend both the internal tests in each theory course. The

weighted average of the marks secured in two tests is awarded as sessional marks. However, 0.8

shall be assigned as weight for the best performance of the two tests whereas for the other test it

shall be 0.2. If a student is absent for any of the internal test for whatsoever reason, the marks for

that test shall be zero.

10.4 The students shall verify the valuation of answer scripts of sessional tests and sign on the

same after verification.

10.5 The valuation and verification of answer scripts of Sessional Tests shall be completed

within a week after the conduct of the internal tests. The answer scripts shall be maintained in the

dept until the semester end results are announced.

10.6 The valuation of Semester end Examination answer scripts shall be arranged by the

Controller of Examinations as per the University procedures in vogue.

10.7 Evaluation of Practicals:

For each practical course, the sessional marks for a maximum of 100 shall be awarded by the

teacher based on continuous assessment of practical work. The Semester end University

practical Examinations carrying 100 marks shall be conducted by i) Internal examiners and ii)

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external examiner permitted by the BoS of the Department a panel submitted to the Controller of

Examinations.

11. Project Work:

11.1 The work shall be carried out in the concerned department of the student or in any

recognized Educational Institutions of Higher learning / Universities / Industry / Organization as

approved by the DDC. The student shall submit the outcome of the project work in the form of a

report.

11.2 The project work shall be evaluated at the end of the IV semester with 70 marks for the

report and 30 marks for the Viva Voice with a maximum of a 100 marks.

12. Grading and Grade Points:

Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale

Letter Grade: It is an index of the performance of students in a said course. Grades are denoted

by letters O, A+, A, B+, B, C, P and F.

Semester Grade Point Average (SGPA): It is a measure of performance of work done in a

semester. It is the ratio of total credit points secured by a student in the courses registered in a

semester and a total course credits taken during that semester. It shall be given up to two decimal

places.

SGPA $(S_i) = \Sigma(C_i \times G_i) / \Sigma C_i$

Where C_i is the number of credits of the ith course and G_i is the grade point scored

by the student in the ith course.

The CGPA is also calculated in the same manner taking into account all the courses

undergone by a student over all the semesters of a programme, i.e.,

Cumulative Grade Point Average (CGPA): It is a measure of overall cumulative performance

of a student over all semesters. The CGPA is the ratio of total credit points secured by a student

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$$CGPA = \Sigma(C_i \times S_i) / \Sigma C_i$$

Where Si is the SGPA of the i_{th} semester and C_i is the total number of credits in that semester.

The SGPA and CGPA shall be rounded off to two decimal points and reported in the transcripts.

Letter Grades and Grade Points:

A 10-point grading system with the following letter grades is to be followed.

Marks	Grade Point	Letter Grade
75-100	7.5-10	O (Outstanding)
65-74	6.5-7.4	A+ (First)
60-64	6.0-6.4	A (First)
55-59	5.5-5.9	B+ (Second)
50-54	5.0-5.4	B (Second)
40-49	4.0-4.9	C (Third)
00-39	0.0-3.9	F (Fail)

A student obtaining Grade F shall be considered failed and will be required to reappear in the examination

- 12.1 In each Semester, every student who satisfies the attendance requirements should register for examination, failing which he/she shall not be promoted to the next semester. Any such student who has not registered for examination in a semester shall repeat that semester in the next academic year after obtaining the proceedings of the Principal.
- 12.2 To pass a course in PG Programme, a student has to secure the minimum grade of (P) in the PG Semester end Examination. A student obtaining Grade F shall be considered failed and will be required to reappear in the examination as supplementary candidate.

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12.3 A student is eligible to improve the marks in a paper in which he has already passed, in with

4 years from the year of admission as and when it is conducted for the subsequent batches. This

provision shall not be provided once the candidate is awarded Degree.

12.4 A student who has failed in a course can reappear for the Semester end Examination as and

when it is held in the normal course. The Sessional Marks obtained by the student will be carried

over for declaring the result.

12.5 Whenever the syllabus is revised for a course, the semester Examination shall be held in old

syllabus three times. Thereafter, the students who failed in that course shall take the semester

end Examination in the revised syllabus.

13. Award of Degree

A student who has earned a minimum of 96 credits by passing in all the core courses and the

minimum number of electives prescribed shall be declared to have passed the course work and

shall become eligible for the award of degree.

A student who has earned extra credits shall be issued a separate certificate to that effect

mentioning the subject and grade.

14. Attendance Requirements

Attendance not compulsory M.Sc - Chemistry however interested students can join offline

classes for a limited period and online classes and interact with the teachers or in synchronous

real time webinar can access course content and complete assignment own pace in asynchronous

methods.

Attendance not compulsory M.Sc - Chemistry however interested students can join

offline classes for a limited period and online classes and interact with the teachers or in

synchronous real time webinar can access course content and complete assignment own pace in

asynchronous methods.

14.2 A student shall repeat the semester if he/she fails to satisfy the attendance requirements

given below:

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14.2.1 A student shall attend at least 60 percent of the maximum hours of instruction taken by

the teacher for each course.

14.2.2 A student shall attend at least 75 percent of the maximum hours of instruction taken for

all the courses put together in that semester.

14.3 The Director CDOE shall condone the shortage of attendance of a student provided; the

student satisfies the clause 14.2 and obtain at least 60% of overall attendance in a semester on

medical grounds only.

15. Conditions of Promotion

A student shall be eligible for promotion to the next semester provided, if he/she satisfies the

attendance requirements in the immediately preceding semester as specified in clause 15. The

Principle of the concerned college will furnish the promotion list to the HOD at the beginning of

II, III & IV Semesters.

16. Transitory Regulations:

16.1 A student who has been repeated in the previous regulations for not satisfying the

attendance requirements shall be permitted to join in these regulations provided the clauses 14.1

and 14.4 hold good.

16.2 Semester end University Examinations under the regulations that immediately precede these

regulations shall be conducted two times after the conduct of last regular examination under

those regulations.

16.3 The students who satisfy the attendance requirements under the regulations that

immediately precede these regulations, but do not pass the courses shall appear for the Semester

end University Examinations in equivalent courses under these regulations as specified by the

BOS concerned.

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17. Grievance Redressal Committee

The Vice -Chancellor and Registrar of the University shall constitute a Grievance Redressal

Committee by nominating three Professors from among the faculty / programme co-ordinators of

the CDOE with the Director of the CDOE as Convener for a period of two years. The Convener

of the committee, one among the three, shall receive the complaints from the students regarding

the valuation of sessional tests and place the same before the Committee for its consideration.

The committee shall submit its recommendations to the Director for consideration.

18. Amendment to the Regulations

Sri Venkateswara University reserves the right to amend these regulations at any time in future

without any notice. Further, the interpretation any of the clauses of these regulations entirely rest

with the University.

19. Library Resources

The institution has a sizable collection of Chemistry books in the Main library on its premises

and also in the CDOE Building own library. The students make use of both the libraries.

20. Cost Estimates for the Development of the Programme

The Programme fee for 1 year is Rs. 16,000/- and in 2 years 14,500/-. The university will pay the

remuneration to course writers and counsellors as per university norms. Processing, Print

Materials(SLM) and Examination fees as prescribed by the University. It will be revised

periodically to attract the counsellors. This institution is providing high-quality programs at

minimum cost.

21. Appropriateness of the Programme with Quality Assurance for Acquiring Specific

Skills: The program is designed by eminent subject experts on par with formal education. The

PPR is designed appropriately for the development of the professional and occupational

standards of the teaching community and to develop skills and competencies among various field

experts. The program is prepared for the changing needs of society with high quality and

structure.

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M.Sc., CHEMISTRY

Semester-I

Sl. no	Code	Title of the course	Hrs/ week	No. of Credit s	Uni. Exams (Hour	IA	Semester end exam	Total Marks
1.	CHE-101	Polymers and Bio-Polymers	6	4	3	20	80	100
2.	CHE-102	Organic Chemistry	6	4	3	20	80	100
3.	CHE-103	Natural Products	6	4	3	20	80	100
4.	CHE-104	Hetrocyclic Chemistry Chemotheraphy and Prostagladins	6	4	3	20	80	100
5.	CHE-105	Practical - I	6	4	3	20	80	100
6.	CHE-106	Practical - II	6	4	3	20	80	100
		TOTAL	36	24		120	480	600

Semester-II

SI. no	Code	Title of the course	Hrs/ week	No. of Credit s	Uni. Exams (Hour	IA	Seme-ster end exam	Total Marks
1.	CHE-201	Quantitative Data, Analytical, Electro Chemical and Separation Techniques	6	4	3	20	80	100
2.	CHE-202	Organic Spectroscopy, Drug Design, Conformational Analysis, & Heterocyclic Compounds	6	4	3	20	80	100
3.	CHE-203	Organic Photochemistry, Pericyclic Reactions & Organic Synthesis	6	4	3	20	80	100
4.	CHE-204	Advanced Natural Products	6	4	3	20	80	100
5.	CHE-205	Practical - I	6	4	3	20	80	100
6.	CHE-206	Practical - II	6	4	3	20	80	100
		TOTAL	36	24		120	480	600

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