

PANDIT SUNDARLAL SHARMA (OPEN) UNIVERSITY CHHATTISGARH

PROGRAMME PROJECT REPORT (PPR)

M.Sc. [Computer Science]

A) Programme mission and objective: Master of science (Computer Science) is designed through distance mode to promote the scientific temperament of the learners in higher education by providing easy access to all the learners to improve their qualification, skills and competence. The education in MSc (Computer Science) will be theoretical and practical, so that a learner will be prepared for computer domains as a career for IT industry and entrepreneurship. Following are the broader objectives of the program:

- i. To educate and create the prospective and diverse group of learner with knowledge, importance of computer science and skills needed to provide leadership to society.
- ii. To give the learners knowledge of advanced computer subjects including software and hardware.
- iii. To enable the learners, get a better job in computer industry. The jobs may include- System Analysts, Programmers, and Technical Facilitators in the industries and teaching posts in colleges and universities.
- iv. To enable the learners to work as system managers and hardware engineers in IT industry.
- v. To make the learner aware of changing environment and scope in the field of computer science to operate in a competitive environment.
- vi. To seek continuous improvement in individual learning skill and personal development in the field of computer science and to work with confidence, self-direction and originality, so as to make a meaningful contribution to society.

B) Reliance of the program with HEIs mission and Goals: Pandit Sundarlal Sharma (Open) University Chhattisgarh is committed to endow with assure equality of scientific education to learners of remote area, where regular form of education cannot reach. In the line of the mission of the university, this programme will provide ample of opportunity to those ruler and backward learners, who cannot find a place in regular education system and deprived of computer science education.

C) Nature of prospective target group of learners: The prospective learners can be graduates of science faculty (with computer science as a subject).

D) Appropriateness of programme to be conducted in Open and Distance Learning mode to acquire specific skills and competence: Master of Science (Computer Science) is one of the suitable course/programme to be offered through open and distance learning mode. Theoretical and practical mode can be well acquired through the distance learning.

E) Instructional Design:

- i. **Duration and Credit:** This programme has duration of two years although learner may complete the program gradually within a maximum period of 4 years. The programme has weightage of 80 credits. In this programme the learner has to study for course of 40 credit point in each year. Contact session for every course will be arranged at the study centre, where the learner can solve their difficulties.
- ii. **Medium:** The course material for M.Sc. programme will be in Hindi or English language. Learners can opt for both English and Hindi, language for answering the questions.

S. S. Sharma
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iii. Course Structure:

COURSE SYLLABUS

Year	Course Code	CURRICULUM TITLE	Paper	Credit	Marks		
					TMA	TEE	Total
First	MSCCST1	Computer Fundamentals	I	6	30	70	100
	MSCCST2	Object Oriented Programming	II	6	30	70	100
	MSCCST3	Computer Network and Internet	III	6	30	70	100
	MSCCST4	System Analysis and Design	IV	6	30	70	100
	MSCCST5	Visual Basic	V	6	30	70	100
	MSCCSP1	Practical-I (Based on MSCCST2)		5			100
	MSCCSP2	Practical-II(Based on MSCCST5)		5			100
Second	MSCCST6	Advance Database Management System	I	6	30	70	100
	MSCCST7	Operating System	II	6	30	70	100
	MSCCST8	Software Engineering	III	6	30	70	100
	MSCCST9	Data mining and warehouse	IV	6	30	70	100
	MSCCST10	Artificial Intelligence and Expert System	V	6	30	70	100
	MSCCSP3	Practical-III(Based on MSCCST6)		5			100
	MSCCSP4	Practical-IV(Based on MSCCST9) /Project work		5			100
		Total		80			1400

- iv. **Project Work:** Project Work is an optional course which learners have to undertake provided that:
- A Learner obtains 62% or above in previous year examination.
 - The dissertation can only be undertaken at University Head Quarter under the supervision of Full Time Faculty or as decided by department concern.
 - Project Work shall be of 100 marks, the evaluation of which is based on 70:30 ratio (70% for Project Submission and 30% for Viva-Voce).
- v. **Learning method:** The learning method developed by University will comprise of independence form of delivery and will constitute the following components-
- Self-instructional textbook (self-learning materials).
 - Counselling and contact session at the study centre by the subject expert.
 - Preparing the learner assignment.
- vi. **Means of delivery:** The learners are given the syllabus of the courses and also the self-learning materials. It helps the learner to study a specific topic. If the learner has any difficulty, he or she can make a note of it. They can discuss these noted difficulties with the counsellor during the contact session at the study centre.
- vii. **Requirement of faculty and support staff:** Faculty of science is headed by permanent faculty member. Supporting staffs will be deputed at the study centre as per need of the

S. Babu *Dr. M. V. S. R.* *H* *sh*

course curriculum. Qualified teacher and other staff will be assigned contact classes and counselling sessions.

F) Procedure for admissions, curriculum transaction and evaluation:

- I. Procedure of Admission:** The admission for this programme will be on yearly basis or at decided by the University from time to time. All the admissions for the programme will be done through online mode. The minimum eligibility for admission in this programme for the candidate is having passed graduation examination of science faculty with Computer science as a subject from any recognised board.
- II. Curriculum Transaction:** For successful completion of the proposed programme a candidate has to obtain minimum passing mark of 40%. Degree will be awarded on the basis of aggregate mark obtained in first and second year. Passing in all the year will be an essential criterion for the award of degree.
- III. Evaluation Patterns:** The patterns of evolution for each course from year I to year II of MSc (Computer Science) programme will have following three components (a) Continuous assessment through TMA (b) Practical, Project Work and Viva-Voce (c) Term end examination TEE.
 - a. Continuous Assessment Through Tutor Mark Assignment:** For each course in every year the learner's performance will be continuously evaluated. Continuous assessment schedule and evaluation will be done by the study centre which will be monitored by the department concern. The learners have to submit tutor mark assignment TMA (carry 30 mark) before the term end examination (TEE) which will be the base of evaluation.
 - b. Practical, Project work and Viva Voce:** Evaluation of this component will be based on practical work or project work submitted by the learners with viva-voce. Viva-voce will be conducted in the presence of an external examiner.
 - c. Term End Examination (TEE):** TEE will be conducted at the end of the learning period through an examination as like other University term end examination. TEE of each course will be of 70 marks. The question in the examination will compromise of very short type, answer brief answer and long type answer. The structure of the examination is as under:

Section	Total No. Of Questions	Type of Questions	Marks
A	8 (All Compulsory Questions)	Objective Type	1X8=8
B	6 (4 Should be answered)	Very Short Type	2.5X 4=10
C	4 (3 Should be answered)	Short Type	5X3=15
D	4 (2 Should be answered)	Semi Long Type	10X2=20
E	2 (1 Should be answered)	Long Type	17X1=17
TOTAL	24 (18 Should be answered)		70 Marks

- d. University Fee Structure:** The fee structure of the MSc (Computer Science) programme is as under:

Details of University Fee (In Rupees)

Particulars	Year I	Year II	Total
Yearly Fees	10000	10000	20000

- g) Requirement of the laboratory support and library resources:** Computer Laboratory is required as a part of this Curriculum which is available in University campus as well as in selected SLCs under RCs. Laboratory is required for this course. Resources in the form of reference

S. Ramesh *Prabhakar* *S. S. S.*

books and journals will be made available to the learners in the University Central library, which they can access for gaining knowledge.

h) Cost estimate of the programme and the provisions: For the design, development, delivery and maintenance of the programme, the fund will be as per the budget allocated by the University in its Annual budget session.

i) Quality assurance mechanism and expected programme outcomes: The monitoring of the programme will be done on continuous basis by the department concern. Regular updating of the curriculum and syllabus will be checked by the concerned board of studied and regular monitoring will be done by centre for Internal Quality Assurance (CIQA) of the University. learners will be asked to provide their feedback on continuous basis to develop suitable action plans for the programme and will be duly incorporated into the teaching and delivery system.

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