

**TEACHERS' UNIVERSITY CENTRE FOR DISTANCE EDUCATION
PROGRAMME PROJECT REPORT (PPR)**

TRADITIONAL PROGRAMS AT CTU

Course: Masters in Science in Information Technology M.Sc(IT)

Duration: 2 Years

A. Programme Mission and Objective:

The aim of CTU in starting Masters in Information Technology(M.Sc) is to create Information Technology professionals for delivering better Opportunities in Information Technology field .

(a) Rationale : The main reason for offering this programme are :

Information Technology is an exciting and growing field- Information Technology is an emerging field of opportunities as the era has shifted from just treating a disease to controlling and preventing it in the community. The field enriches the research activities and promotion activities.

Information Technology is a diverse and dynamic field- Information Technology field is open for students from varying educational backgrounds such as B.Sc(IT),BCA.

(b) Goals and objectives:

To provide a career for students asIT to enhance knowledge and basic computer skill of learners.

To train students with required skills as human resource inIT domain and also promote computer literacy among learners.

To provide better job prospects for computer science graduates

B. Relevance of the programme with HEI's Mission and Goals :

The programme is entirely in line with the CTU strategic goals as well as its Mission to provide superior professional education, nurturing translational and transformational research in IT sector for the benefit of the society. The programme is also consistent with Higher Education vision 2020 to transform society towards knowledge society and making education an improve tool to realize knowledge, economy and society.

C. Nature of prospective target group of learners :

A Bachelor's degree inB.Sc(IT),BCA from any statutory university in the country or abroad.

The degree should have been obtained from a university recognized by UGC, established by law in India and the medium of instruction for the degree should be English. A candidate who has scored a minimum of 50% of the marks in the qualifying examination will be eligible for admission to the M.Sc(IT) Course.

D. Appropriateness of programme to be conducted in open and distance learning mode to acquire specific skills and competence

This course is intended for professional's practitioners, researchers and students from wide range of backgrounds who aim to develop their knowledge and insights pertaining to the IT. The course

in designed to provide critical and practical skills to analyse, evaluate, design and implement solution and strategies with regards to Information Technology and its issues.

E. Instructional Delivery Mechanism

CTU follows a modern ICT enabled approach for instruction. The methodology of instruction in CTU is different from that of the conventional /regular programs. Our system is learner-oriented and the learner is an active participant in the teaching-learning process. Most of the instructions are imparted through online and distance mode. Academic delivery systems of CTU are:

Print Material: CTU mainly focuses on Self Learning Material (SLM) and their up gradation by eminent teachers/academicians both from CTU and other reputed universities/institutions. As text information plays a vital role in distance education, print based instruction has a critical role in CTU distance learning initiatives.

Audio-Visual Material Aids: The learning package contains audio and video programmes which have been produced by the University for the Enhancement of understanding of the course material given to the student. The video lectures are uploaded in the University website for the student's access.

Online/Virtual Classes: Delivery of classroom-like lectures will also be available in the student portal for enhanced learning experience.

Laboratory facilities: CTU has advanced laboratory for practical training for younger minds to get hands on experience in cutting edge techniques.

I) Identification of Media

Print, Audio-Video and Online media will be utilized for the dissemination of knowledge relevant to the program enrolled.

II) Student support system

CTU provides an exclusive online portal for students to cater to all of their academic related matters such as notification of contact classes, assignment details, course material, and examination schedule. In addition, each student has provision to seek guidance, counseling and career guidance throughout the program.

F. Procedure for admissions, curriculum transaction and evaluation

Admission to all the programs is through notification in newspaper and on University website. The admission procedure involves submission of filled application by the candidates after paying the prescribed fees. The admission scrutiny committee evaluates all the submitted applications and recommend the eligible candidates. The selected candidates are notified through admissions office and also on the University website. The selected candidates are expected to report within the stipulated timeframe for provisional admission to the program.

Curriculum transaction for the program is through the designated online student portal as detailed below.

Skill based ODL Programs at CTU

By now, open and distance learning (ODL) Institutions have established themselves as an alternative to provide education especially at tertiary level. But from past few years many ODL institution also diverted their attention towards improving skills of teachers and industrial workforce through in-service teaching programme and skill development programmes. Yet, despite the rapid expansion of ODL institutions, policy-makers have limited evidence regarding the actual outcomes and impact of such initiatives. Such ODL based model of improving skills of learners either in job or as their pre-jobs requirement has great importance and relevance in countries like India where there is an urgent need of providing, cost effective training to a large number of untrained work force and need of continuing education at different levels for improve overall their skills and enable them to be part of the productive force in fast growing Indian economy.

STUDY AND EVALUATION SCHEME

SEMESTER- I

Course	Course Title	Teaching Scheme				Examination Scheme						Total
		Contact Hours			Credit	Theory			Practical			
		Theory	Pract	Total		Internal		Exter nal	Internal		Exter nal	
						Case Study	Tests		Term work	Tests		
MS106-109	Elective-I	3	-	3	3	10	20	70	-	-	-	100
MS110	Database Technologies	4	3	7	7	10	20	70	15	15	70	200
MS111	Object Oriented Programming in Java	4	3	7	7	10	20	70	15	15	70	200
MS112	Operating System Concepts	4	3	7	7	10	20	70	15	15	70	200
MS113	System Analysis and Design using Object Oriented Approach	-	2	2	2	-	-	-	10	20	70	100
HS701	Advance Critical Thinking and Logic	2	-	2	2	30		70	-		-	100
Total		17	11	28	28	500			400			900

Elective-I

MS106- Fundamentals of Internet

MS107- Fundamentals of Data Communications

MS108- History of Modern Computing

MS109- Introduction to Information Technology

SEMESTER- II

Course	Course Title	Teaching Scheme				Examination Scheme						
		Contact Hours			Credit	Theory			Practical			Total
		Theory	Pract	Total		Internal		External	Internal		External	
						Case Study	Tests		Term work	Tests		
MS208-211	Elective-II	3	-	3	3	10	20	70	-	-	-	100
MS212	Software Engineering & Quality Assurance	4	3	7	7	10	20	70	15	15	70	200
MS213	Programming the Internet	4	3	7	7	10	20	70	15	15	70	200
MS214	Framework and Application	4	3	7	7	10	20	70	15	15	70	200
MS215	Human-Computer Interfaces	3	-	3	3	10	20	70	-	-	-	100
HS702	Academic Writing and Communication Skills	-	2	2	2	-	-	-	30		70	100
Total		18	11	29	29	500			400			900

Elective-II

MS208- Management Information Systems

MS209- Information Technology Service Management

MS210- Wireless Communications

MS211- Introduction to Enterprise Resource Planning

SEMESTER - III

Course	Course Title	Teaching Scheme				Examination Scheme						
		Contact Hours			Credit	Theory			Practical			Total
		Theory	Pract	Total		Internal		External	Internal		External	
						Case Study	Tests		Term work	Tests		
MS311-314	Elective-III	3	-	3	3	10	20	70	-	-	-	100
MS315	Web Designing	-	3	3	3	10	20	70	15	15	70	200
MS316	Web Development Using Advanced Java	4	3	7	7	10	20	70	15	15	70	200
MS317	Web XML Applications	4	3	7	7	10	20	70	15	15	70	200
MS318	Web Development Using Open Source	4	3	7	7	10	20	70	15	15	70	200
Total		15	12	27	27	500			400			900

Elective-III

MS311-Statistical Methods and Optimization Techniques

MS312-Advanced Operating Systems

MS313-Cyber Security Fundamentals

MS314-Basics of Cloud Computing

SEMESTER - IV

Course	Course Title	Teaching Scheme			Credit	Internal	End Semester Examination		Total
		Contact Hours				Continuous Evaluation	Report	Presentation & Viva	
		Inst.	Industry	Total					
MS401	Dissertation/Project Work	2	28	30	30	200	200	400	800

