





CHHATTISGARH'S FIRST AND ONLY STATE UNIVERSITY ACCREDITED WITH A GRADE BY NAAC

MATS CENTRE FOR DISTANCE AND ONLINE EDUCATION (MCDOE)



ODL MODE

PROGRAMME GUIDE

MATS CENTRE FOR OPEN AND DISTANCE EDUCATION (MCODE)

POST GRADUATE DIPLOMA IN COMPUTER APPLICATION (PGDCA)

- About University
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MATS CENTER FOR DISTANCE AND OPEN AND DISTANCE EDUCATION(MCDOE) MATS UNIVERSITY

Address: Aarang-Kharora Highway, Gullu, Aarang, Raipur, Chhattisgarh Pincode-493 441, Contact: 07714078995/96

ABOUT UNIVERSITY

At MATS, we are committed to developing leaders who are not merely skilled professionals but also compassionate people with strong ethical values and discipline.

We provide our students with the **information**, **skills**, **confidence**, and **experience** necessary to improve the world around them. MATS University not only develops their students individually but also gives them time and opportunity to develop new interests, learn new skills, and meet new people.

Established in **2006**, MATS University has emerged as a leading educational institute in Raipur, committed to nurturing future leaders and professionals across various disciplines. We take pride in our distinguished faculty members who are experts in their respective roles, dedicating themselves to imparting knowledge and mentorship to our students.

Key Features of University: Following are some of the key features which makes university unique in terms of quality and reliability.

- It State-of-the-Art Facilities: Advanced classrooms and labs for enhanced learning.
- Sustainability: Green buildings and eco-friendly practices.
- Technology Integration: Smart classrooms and digital resources for better education.
- Experienced Professors: Academic and practical expertise that enriches the learning environment.
- Research & Development: Active involvement in cutting-edge research.
- Personalized Learning: Smaller class sizes and mentorship for more interaction and attention.
- Inclusivity & Diversity: Celebrating different backgrounds and perspectives: Student Engagement: Clubs and events that create a lively campus life. Support Services: Comprehensive help for academic and personal growth.

University Vision: To become a world-class Centre in providing globally relevant education. MATS will be the Global University, known for the quality academic programmes and outstanding faculty, products and services to student and clients independent of place and time constraints. MATS University will be a benchmark institution for lifelong partnership with students, the workforce and public and private enterprises. Building on its proud tradition, MATS university will extend educational opportunities to those who will make our

state (Chhattisgarh), our nation and global society a better place to live and work.

University Mission: To foster an intellectual and ethical environment in which the spirit and skills within MATS will thrive so as to impart high quality education, training, research and consultancy services with a global outlook and human values. To create and develop technocrats, entrepreneurs and business leaders who will strive to & improve the quality of human life. To create truly world class schools of Management Sciences, Engineering Sciences, Information Technology, Life Science, Basic and Applied Sciences, Humanities & Social Sciences and Life Skills.

RECOGNITIONS

- The University is recognized under Section 2(f) of the UGC Act.
- NAAC A+

THE FACULTIES OF STUDIES

The following faculties currently are in operation in the University:

- MATS School of Management & Business Studies
- MATS Law School
- MATS School of Engineering & Information Technology
- MATS School of Education
- MATS School of Information Technology
- MATS School of Library Science
- MATS School of Sciences & Forensic Science
- MATS School of Arts & Humanities
- MATS School of Pharmacy
- MATS School of Physical Education & Yoga
- MATS School of Social Science

ABOUT MATS CENTRE FOR OPEN and DISTANCE EDUCATION

MATS University is a prestigious institution established in 2006, committed to providing quality, accessible education through innovative distance learning methodologies. Through the Open and Distance Education from MATS University learners can unlock endless opportunities with flexible, comprehensive Open and Distance Education programmes designed for busy professionals and dedicated learners, so they can Achieve their academic dreams with ease of learning and at their convenience. MATS Centre for Open and Distance Education (MCODE) provides flexible, inclusive, and accessible educational opportunities through distance learning,

maintaining rigorous academic standards and global relevance. MCODE has integrate advanced technologies, innovative pedagogies, and comprehensive support systems that enrich the learning experience with reliability to gain more and more knowledge through the practical approach of learning. MCODE aims to nurture intellectual curiosity, professional competence, and ethical consciousness among learners, preparing them to thrive in the competitive world. Open and Distance Education will enhance employability, entrepreneurial capabilities, and leadership skills by aligning programmes with industry and societal needs, ensuring holistic development of students.

MATS Centre for Open and Distance Education vision is be recognized as a benchmark institution for providing accessible, inclusive, and quality-driven open distance education, empowering learners to achieve academic and professional excellence irrespective of their geographical locations. The mission of the MCODE is to improve the quality of education in the area with the help of advanced technology and use of ICT in Open and Distance Learningso the learners are aware from the latest technologies and become a skilled professional. Following are the key points about MCODE that makes it unique and futuristics.

- Well-structured, up-to-date materials available digitally form for easy access.
- Flexible, secure, and user-friendly examination process for a stress-free assessment experience.
- Dedicated helpdesk, online counseling & personalized mentoring for academic queries.
- Access thousands of digital books, journals, and research materials anytime, anywhere.
- State of the art Learners Management System (LMS).
- Dedicated learners support service system to help out the learners in every step of their academic journey.
- Well-designed SLM along with interactive learning methods and techniques, in both the form printed and digital so learners can have ease of access.
- Audio/Video lectures in the form of e-SLM for the learners.
- ICT based contact classes along with doubt clearing sessions.
- Video Conferencing for interactive presentation and live sessions.
- Course content delivery mechanism through use of mail id, websites, various online sources.

• We have already run the distance education programme in the previous sessions 2011-13 and 2017-19.

ABOUT PROGRAMME

A. Programme's Mission and Objectives:

Mission:

The mission of the programme Post Graduate Diploma in Computer Application (PGDCA) in Open and Distance Learning mode of Education is to empower students with comprehensive theoretical knowledge and practical skills in computer applications through accessible, flexible, and innovative learning mode of education, fostering adept professionals for the evolving digital landscape. The programme aims to produce primary user and competent computer operator who can work in a professional way with the ability to face future challenges.

This is a post graduate diploma programme related to knowledge of computers and their applications in the field of information technology. This programme is for those learners who are passed Graduation exam from any stream, they can join this programme to learn about Information Technology and trends.

Objectives:

The Post Graduate Diploma in Computer Application (PGDCA) programme is designed to equip students with advanced knowledge and skills in computer science, software development, and information technology. The primary objective of the programme is to develop competent professionals who can contribute effectively to the IT industry and research domains.

Key Objectives:

- 1. Strong Theoretical Foundation: Provide in-depth knowledge of computer Application, data structures, database management, and software's.
- 2. Basic Programming Skills: Develop expertise in multiple programming languages, frameworks, and tools used in software development and application design.
- 3. Application Deployment: Train students to deploy and manage software

- applications, enterprise solutions, and web-based systems.
- 4. Artificial Intelligence & Emerging Technologies: Introduce the use of AI and Machine Learning technologies to prepare students for future industry trends.
- 5. Problem-Solving & Analytical Thinking: Enhance logical reasoning, critical thinking, and problem-solving abilities to address real-world challenges in computing and IT domains.
- 6. Industry Readiness & Practical Exposure: Provide hands-on experience through laboratory work, internships, and industry collaborations to bridge the gap between academia and industry

The PGDCA programme aims to create skilled IT professionals who can excel in software applications in industry leadership roles while adapting to evolving technological landscapes.

B. Relevance of the Programme with University's Mission and Goals:

The Open and Distance Learning mode of the PGDCA programme aligns with MATS's University mission to cultivate a learning environment that fosters creativity, innovation, and critical thinking among students. The programme is designed to provide a world-class education in computer science and applications, with a focus on developing skilled professionals who can make valuable contributions to the industry and society. The PGDCA programme also aims to provide an inclusive and diverse learning environment, which is essential for the development of professionals who can work effectively in multicultural and global environments. The programme provides opportunities for students to engage in practical and project-based learning, which helps them develop teamwork skills, leadership skills, and communication skills. These are essential skills that prepare students to become successful professionals in the field of computer science and applications.

C. Nature of Prospective Target Group of Learners:

The programme aims at providing learning opportunities to a diverse group of learners falling under the category of non-traditional learners such as full-time working professionals, entrepreneurs, individuals in remote regions, non-residents and homemakers. The Open and Distance Learning mode of education OL PGDCA

programme is for students who cannot afford to pursue the education in regular mode due to time, cost and distance constraints.

D. Appropriateness of Programme to be Conducted in Online and Open and Distance Learning Mode to Acquire Specific Skills and Competence:

The Open and Distance Learning PGDCA programme will be delivered with flexibility, allowing students to learn at their own pace while balancing work, family, and education. The learning resources are designed to support self-sufficient, self-directed, and independent learning. The programme will be supported by a robust Learning Management System, offering a variety of resources including e-tutorials, e-materials, e-assignments, quizzes, discussion forums for doubt-solving, assessment and progress tracking tools, and display of results.

E. Expected Outcome of the Programme:

"At the end of the programme expected outcomes"

- To acquire a general knowledge, principles and mechanisms of Computer.
- To prepare the learners for employability.
- To acquire a basic knowledge of Subjects.
- To acquire techniques relevant of subjects taught.

PROGRAMME DELIVERY MODE

As the programme will offer in MATS Centre of Open and Distance Education mode, the there are various instructional delivery mechanisms and media will be used to effectively deliver content to the learners. The programme delivery mechanism used by MCDOE follows a multimedia approach for instructions, which are as follows:

- The self-learning material (SLM) which covers all the metrics of the programme will be deliver to the learners for every course.
- Learning Management System (LMS) is an online platform that provides a
 centralized location for students to access learning content, engage in discussions,
 submit assignments, and take assessments. The LMS provides a user-friendly
 interface that is accessible on multiple devices, such as desktops, laptops, tablets,
 and smartphones.

- Webinars can be used for lectures, discussions, or interactive sessions with students.
 Pre-recorded video lectures can be used to deliver course content in a concise and engaging way. Interactive multimedia includes simulations, games, and quizzes that are designed to reinforce learning.
- Discussion forums can be used to facilitate group discussions, peer-to-peer learning, and to provide feedback and support. Open and face-to-face counselling will be provided by academic counsellors appointed for the programme.
- The counseling sessions are held as per schedule drawn by the MCDOE. These counselling sessions are held in non-working hours for the learners so they can attend the counselling session properly and regularly to enhance their learning skills.
- Live session will be conducted through the use of Internet Communication Technologies (ICT) from the University's studio, the schedule of which is made available at the Leaner Support System.
- Programmes which have industrial training/practical/ project component are held at
 University's learners support centers and Attendance of the leaner in this part of the
 courses is compulsory. As per guidelines Project Work of the programme will be
 done by the learners and regarding this a complete guide will be deliver to the
 learner along with study material.
- The SLM will be dispatched periodically to the enrolled learners for each course of the programme. These SLM's will be very helpful to the learners in effective learning. The assignment for internal assessment of learner's shall be deliver to the learners along with the SLM. Online modules are also available in the University's website for some programme.
- The contact classes and counselling schedule will be schedule in online mode through LMS.

EVALUATION SYSTEM

The eligibility for the admission is passed in graduation examination or equivalent. Learners have the convenience of accessing all the information related to admission procedure and other information through the University's website or by contacting the helpdesk number. They can apply online admission form the university website. Upon receipt, the University will scrutinize the documents and process the payment of fees. Once the fees are cleared, the admission will

be confirmed, and an enrollment number will be issued to the learner.

• Examination and Evaluation System:

Evaluation shall be based on continuous assessment, in which sessional work and the terminal examination shall contribute to the final grade through online mode. Sessional work shall consist of class tests, mid-semester examination(s), homework assignments, etc., as determined by the faculty in charge of the courses of study. Progress towards achievement of learning outcomes shall be assessed using the following: time-constrained examinations; closed-book and open-book tests; problem-based assignments; observation of practical skills; individual project reports (case-study reports); team project reports; oral presentations, including seminar presentation; viva voce interviews; computerized adaptive assessment, examination on demand, modular certifications, etc. through online mode.

Each course shall correspond to an examination paper comprising of external and internal evaluations. The semester end theory examinations for Major, Minor, Open/Generic and DSC (Discipline specific Course) vocational, value added, SEC (Skill Enhancement Course) and AEC (Ability Enhancement Course) shall be of a duration as promulgated through the examination's regulations approved by the Academic Council of the University. The credit structure for theory/Practical/tutorial, internal, external examinations and total marks for an examination shall be as per the programme structure approved by the Academic Council of the University as per UGC norms. Students shall acquire a minimum passing mark in internal and external examinations separately to be declared as pass in the respective courses, as prescribed by the Academic Council.

- 1. The academic performance of a candidate shall be evaluated in respect of the courses of study prescribed for each semester through the evaluation. The evaluation of students admitted in the programme shall be based on:
 - 1.1. End Semester Examinations 70% marks of total marks and
 - 1.2. Continuous Internal Assessment 30% of total marks
- 2. The End Semester examinations shall be held as per the academic

- calendar notified by the University and the duration of end semester examination shall be of three or two hours.
- 3. The minimum percentage of marks to pass the programme in each semester shall be 40% in each course comprising of end semester examinations and continuous evaluation.
- 4. A programme shall have a specified number of credits in each semester. The number of credits along with grade points that the student has satisfactorily cleared shall measure the performance of the student
- 5. Semester examination results shall have following categories:
 - 5.1.1 Passed, i.e., those who have passed in all courses of the semester examination in internal and external examination separately.
 - 5.1.2 Promoted (ATKT), i.e., those who have earned minimum 50% of credits in a particular year including both the semesters (even and odd) or those who have earned any number of credits in odd semester.
 - 5.1.3 Detained, i.e., those who are not promoted as per the above provisions shall be detained. Such students have to appear in the examination of next academic session to earn required credits (excluding the credits already earned) as per the provisions of this ordinance and only then he/she may continue the programme within stipulated period as per the provisions of this ordinance.
- 6. However, a student of any semester who has been detained/ not appeared in examination due to less attendance/ not applied for examination/ applied but not appeared shall be out from the programme. Such a student has to take admission in the next session as an ex-student through the procedure adopted/notified by the University.

The Fee Structure of the Programme

NAME OF THE COURSES	DURATION (SEMESTER)	ADMISSION FORM FEE (RS.)	COURSE FEE (PER YEAR)	EXAM FEE (PER YEAR)	TOTAL FEE (PER YEAR)
Post Graduate Diploma of Computer Application (PGDCA)	2	500	9000	3000	12,500

LEARNER SUPPORT DESK:

Contact Person: Dr. Vaibhav Sharma

Phone: 07714078995/96

Email: help@matsodl.com

Director

MATS Centre for Open and Distance Education (MCODE) MATS University Address: Aarang-Kharora Highway, Gullu, Aarang, Raipur, Pincode-493 441, Chhattisgarh

Phone: 07714078995/96

Post Graduate Diploma in Computer Application (PGDCA)

Teaching Evaluation Schema

Course: Po	ost Graduat	e Diploma	a in Co	mputer	Applica	tion (P	GDC	A) : S	Sem I
	Courses			Teaching scheme				Evaluation Scheme	
Course		Course		Hours		Credits			
Category Course Name		Code	Theory	Tutorial	Practical		CIA	ESE	
Discipline Specific Core Courses (DSCC)	Computer Fundamentals	PGDCA101	3	1	0	4	30	70	100
Discipline Specific Core Courses (DSCC)	Programming in C	PGDCA102	3	1	0	4	30	70	100
Discipline Specific Core Courses (DSCC)	Programming in C Lab	PGDCA103	0	0	4	2	15	35	50
Discipline Specific Core Courses (DSCC)	Database Management System Concepts	PGDCA104	3	1	0	4	30	70	100
Discipline Specific Core Courses (DSCC)	Database Management System Concepts Lab	PGDCA105	0	0	4	2	15	35	50
Skill Enhancement Course (SEC)	Office Automation	PGDCA106	0	0	8	4	30	70	100
			9	3	16	20	150	350	500

Course: Post Graduate Diploma in Computer Application (PGDCA): Sem II

	Courses			Teaching scheme				Evaluation Scheme	
6			Hours			Credits			
Course Category	Course Name	Course Code	Theory	Tutorial	Practical		CIA	ESE	
Discipline Specific Core Courses (DSCC)	Web Designing with HTML/PHP	PGDCA201	3	1	0	4	30	70	100
Discipline Specific Core Courses (DSCC)	Web Designing with HTML/PHP Lab	PGDCA202	0	0	4	2	15	35	50
Discipline Specific Core Courses (DSCC)	RDBMS Concepts	PGDCA203	3	1	0	4	30	70	100
Discipline Specific Core Courses (DSCC)	RDBMS Concepts Lab	PGDCA204	0	0	4	2	15	35	50
Discipline Specific Core Courses (DSCC)	Operating System Fundamentals	PGDCA205	3	1	0	4	30	70	100
Project Management	Mini Project	PGDCA206	0	0	8	4	30	70	100
			9	3	16	20	150	350	500

SYLLABUS

PROGRAM: PGDCA SEMESTER:I WEF:2024-25

CourseCode:PGDCA101 Credit:04 Course: Computer Fundamentals L:03 | T:01 | P:00

No.		Module Description				
Module 1:	Computer Organization					
	Unit 1.1:	Introduction of Computers, Characteristics of computers				
	Unit 1.2:	Evolution of computer				
	Unit 1.3:	Arithmetic Logic Unit (ALU), Control Unit (CU), Central Processing Unit (CPU)				
	Unit 1.4:	Input unit, Output unit and Storage unit				
	Unit 1.5:	Types of Memory: RAM, ROM, PROM, EPROM, EEPROM, Cache				
	Unit 1.6:	System concepts				
	Unit 1.7:	Classification of computers				
Module 2:	Digital System	m and Boolean Algebra				
	Unit 2.1:	Overview of digital systems and their application, number system: representation and conversion				
	Unit 2.2:	Binary coded decimal (BCD)representation				
	Unit 2.3:	Boolean algebra fundamentals				
	Unit 2.4:	Basic Theorem and properties of Boolean algebra				
	Unit 2.5:	Boolean function				
	Unit 2.6:	Canonical and standard forms				
Module 3:	Gate-level Minimization					
	Unit 3.1:	Introduction				
	Unit 3.2:	The map method				
	Unit 3.3:	Karnaugh maps(K-maps) for simplifying Boolean expressions.				
	Unit 3.4:	product of sums simplification				
	Unit 3.5:	Don't care condition				
	Unit 3.6:	NAND and NOR implementation				
Module 4:	Computer Software					
	Unit 4.1:	Introduction to Software				
	Unit 4.2:	Relationship between Hardware and Software				
	Unit 4.3:	Types of Software				
	Unit 4.4:	Logical System Architecture				
	Unit 4.5:	Firmware, Middleware				
	Unit 4.6:	Pre-written Software, Customized Software				
Module 5:	Cyber Secur	ity				
	Unit 5.1:	Cyber security: Introduction, Significance, Working of Cyber Security, Challenges, Cyber Laws				
	Unit 5.2:	Types of cyber-attacks: malware, Phishing, DDoS, Password, Man in the middle, SQL				
		Injections, Prevention from Cyber				
	Unit 5.3:	Future Trends in Cyber security: Artificial Intelligence and Machine Learning, Cloud				

		Security, Internet of Things (IoT) Security, Quantum Security, 5G Security.
	Unit 5.4:	Emerging Trends in Digital Media: Influencer Marketing, Omnichannel Marketing,
		Artificial Intelligence, Deep fake videos, Video Marketing, Metaverse, Chatbots.

- 1. Pradeep K. Sinha, "Computer Fundamentals":TB#1
- 2. E Balagurusamy , "FUNDAMENTALS OF COMPUTERS", Tata McGraw Hill :TB#2 3. M. Morris Mano, "Computer System Architecture":TB#3

- 1. https://www.researchgate.net/publication/258339295_FUNDAMENTALS_OF_COMPUTER_STUDIES
- 2. https://www.geeksforgeeks.org/computer-fundamentals-tutorial/
- 3. https://www.simplilearn.com/tutorials/cyber-security-tutorial/types-of-cyber-attacks :RB#4
- 4. https://www.zenarmor.com/docs/network-security-tutorials/future-trends-in-cybersecurity: RB#5
- 5. https://emeritus.org/in/learn/digital-marketing-trends/:RB#6

		SYLLABUS		
PROGRAM	I: PGDCA	SEMESTER: I	WEF:2024-25	
CourseCode:PGDCA102	Credit:04	Course: Programming	in C	L:03 T:01 P:00

No.		Module Description				
Module 1:	Algorithm, F	Flow Chart and Programming languages				
	Unit 1.1:	Introduction of algorithm and flowchart				
	Unit 1.2:	Type of software and programming languages				
	Unit 1.3:	Introduction to C: Program structure, Per processor Derivatives				
	Unit 1.4:	Token, Data Type, Format Specifier, Operators				
	Unit 1.5:	Header files				
Module 2:	Control Statements, Array and String					
	Unit 2.1:	Control Statements: Definition and types				
	Unit 2.2:	Branching, Looping, Jumping Statement and its types				
	Unit 2.3:	One dimensional, Two dimensional and Multidimensional Array				
	Unit 2.4:	Character Array: Initialization, Reading, writing				
	Unit 2.5:	String Manipulation functions				
Module 3:	Function and Pointer					
	Unit 3.1:	Function: Introduction, types of functions				
	Unit 3.2:	Function: Nested function, Recursion				
	Unit 3.3:	Passing array as a function parameter				
	Unit 3.4:	Pointer and Array: Pointer Expression, pointer with array and string, Array of				
		Pointer				
	Unit 3.5:	Pointer and Function: Pointer as function parameter				
Module 4:	Structure a	and Dynamic Memory Allocation				
	Unit 4.1:	Array of Structure, Array Within Structure				

	Unit 4.2:	Structure within structure			
	Unit 4.3:	tructure and Function: Structure as a function parameter			
	Unit 4.4:	Nemory allocation concept			
	Unit 4.5:	ynamic memory allocation: malloc, calloc, free and realloc			
Module 5:	File Handlin	ndling			
	Unit 5.1:	Introduction of file concept: Opening, closing			
	Unit 5.2:	Input/output Operation in file			
	0	mpacy sucpace operation in the			
	Unit 5.3:	Error Handling during I/O Operation			

- $\textbf{1.} \ EBalaguru Swami, "Programming in ANSI", Tata McGraw Hills: \textbf{TB\#1}$
- $2.\ KRV enugopaland SRP rasad, "Mastering in C", Tata McGraw Hills: \textbf{TB\#2}$

- 1. Yashavant Kanetkar, "LetUsC", BPB Publication
- 2. https://www.javatpoint.com/c-programming-language-tutorial
- 3. https://www.w3schools.com/c/

SYLLABUS						
PROGRAM:PGDCA SEMESTER: I WEF:2024-25						
Course Code: PGDCA104	Credit:04	Course: Database Management System Concepts	L:03 T:01 P:00			

No.		Module Description			
Module 1:	Introduction	n to Database Management System			
	Unit 1.1:	Introduction and purpose of database			
	Unit 1.2:	View of Data: Data Abstraction, Instances and Schemas, Data Models			
	Unit 1.3:	Database Languages: DDL and DML			
	Unit 1.4:	Database Architecture: Two-tier, Three-tier			
	Unit 1.5:	Database Users and Administrator: Functions and Roles			
	Unit 1.6:	Introduction to Data Mining, Data warehouse, Big Data, Data Analytics			
Module 2:	Data Modeling and Database Design				
	Unit 2.1:	Design Process			
	Unit 2.2:	E-R Model			
	Unit 2.3:	Constraints			
	Unit 2.4:	E-R Diagram			
	Unit 2.5:	Weak and Strong Entity Set			
Module 3:	ule 3: Relational Database Design				
	Unit 3.1:	Extended E-R Features : Generalization and Specialization			
	Unit 3.2:	Constraints on Specialization			
	Unit 3.3:	Relational Model Structure			

	Unit 3.4:	Database Schema
	Unit 3.5:	Keys: Super, Candidate, Primary, and Foreign key
	Unit 3.6:	Schema Diagram
	Unit 3.7:	Conversion of E-R to Relational Model
		PRACTICAL MODULE
Module 4:	Managing D	atabase and Table
	Unit 4.1:	Select, Create and Drop Database
	Unit 4.2:	Create, Rename, Alter Table, Truncate and Drop Table
	Unit 4.3:	Data Types: BIT, BOOLEAN, CHAR, VARCHAR, DATE, DATETIME, DECIMAL
	Unit 4.4:	Insert, Update and Delete Records
	Unit 4.5:	Constraint: Primary Key, Foreign Key, UNIQUE Constraint, NOT NULL Constraint,
		DEFAULT Constraint, CHECK Constraint
Module 5:	Spring and S	Spring Boot Framework
	Unit 5.1:	SELECT, ORDER BY, WHERE, SELECT DISTINCT
	Unit 5.2:	Operators: AND, OR, IN, BETWEEN, LIKE, LIMIT, IS NULL
	Unit 5.3:	Numeric, String and Date functions
	Unit 5.4:	Joins: INNER JOIN, LEFT JOIN, RIGHT JOIN, SELF JOIN
	Unit 5.5:	Aggregate F, Functions: GROUP BY, HAVING, MIN (), MAX (), AVG (), SUM (), COUNT
		()
	Unit 5.6:	Sub-query Sub-query

- 1. Henry F. Korth, "Database System Concepts", TataMcGrawHills
- 2. IvanBayross, MySQL5.1 for Professionals, SPD

- ${\tt 1.\,Elmas riand Nava the, "Fundamentals of Database Systems", Pears on Education.}$
- 2. ThomasConnollyandCarolynBegg, "DatabaseSystems, APracticalApproachto Design Implementation and Management", Pearson Education
- 3. MySQL Referencehttps://www.mysqltutorial.org/
- 4. MySQL Reference Manual-https://dev.mysql.com/doc/refman/8.0/en/

		SYLLABUS		
PROGRAM	I:PGDCA	SEMESTER: I	WEF:2024-25	
CourseCode:PGDCA106 Credit:04		Course: Office Autom	ation	L:00 T:00 P:04

No.	Module Description			
Module 1:	Word Proce	Word Processing		
	Unit 1.1:	Working With Document: Opening, Saving and Editing Files, Inserting, Deleting Files		
	Unit 1.2:	Margins: Converting Files to Different Format Using Tools Bar		

	Unit 1.3:	Page Style, Alignment -Indents, Line Space, Border and Shading			
	Unit 1.4:	Header and Footer Setting			
	Unit 1.5:	Drawing: Inserting Clip Arts Pictures/Files Etc.			
	Unit 1.6:	Word Completion: Spell Checks			
	Unit 1.7:	Mail Merging			
Module 2:	Spread She				
	Unit 2.1:				
	Unit 2.2:	Working With Spreadsheet: Opening, Saving, File Setting			
	Unit 2.3:	Spreadsheet Addressing: Rows, Columns and Cells, Referring Cells			
	Unit 2.4:	Inserting Data: Insert Cells, Columns, Rows and Sheets			
	Unit 2.5:	External Files: Frames Clipart, Pictures etc.			
	Unit 2.6:	Formula Tab			
Module 3:	Presentation				
	Unit 3.1:	Introduction To Presentation: Opening New Presentation			
	Unit 3.2:	Selecting Presentation Layout			
	Unit 3.3:	Adding Text to the Presentation			
	Unit 3.4:	Header And Footer			
	Unit 3.5:	Slide Layout			
	Unit 3.6:	Adding Graphics to the Presentation, Setting Animation and Transition Effect			
Module 4:	Database				
	Unit 4.1:	Introduction to MS Access :Overview of database concepts, Components of Access			
		(Tables, Queries, Forms, Reports)			
	Unit 4.2:	Tables and Data Types: Creating and designing tables, Field types, primary keys,			
		relationships between tables			
Module 5:	Query and Report				
	Unit 5.1:	Queries and Data Retrieval: Creating select, action, and parameter queries, Using			
		criteria and expressions for data filtering			
	Unit 5.2:	Forms and Reports: Designing user-friendly forms, Generating and formatting			
		reports for data presentation			

- 1. Top help topics Microsoft Support
- 2. https://www.w3schools.com/html/

Reference Books/Resources

1. https://www.tutorialspoint.com/wordpress/index.htm

SYLLABUS

PROGRAM:PGDCA SEMESTER:II WEF:2024-25

Course Code:PGDCA201 Credit:04 Course : Web Designing with HTML/PHP L:03 | T:01 | P:00

No.	Module Description				
Module 1:	Introduction to Web Design				
	Unit 1.1: WWW, Working of Websites				
	Unit 1.2:	Web designing process, UX AND UI			
	Unit 1.3:	Front End, Back End, Client and Server Scripting Languages			
	Unit 1.4:	Responsive Web Designing			
	Unit 1.5:	Types of Websites: Static and Dynamic Websites			
Module 2:	HTML Concep	ots			
	Unit 2.1:	Introduction to HTML, HTML Editor, HTML Basics			
	Unit 2.2:	HTML Elements and Attributes			
	Unit 2.3:	Heading, Types of Heading, Paragraphs, Style			
	Unit 2.4:	Formation, Quotations, Comments			
	Unit 2.5:	Links, Colors, Images			
	Unit 2.6:	List, Tables			
	Unit 2.7:	Forms, Form Elements, Input types, Text Input, Text Area, Dropdown, Radio			
		buttons, Check boxes, Submit and Reset Buttons.			
Module 3:	CSS Concepts				
	Unit 3.1:	Introduction to CSS, Types of CSS			
	Unit 3.2:	Selectors, Comments, Colors			
	Unit 3.3:	Background, Borders, Margins, Padding, Height/Width			
	Unit 3.4:	Box Model, Outline, Text, Fonts, Icons			
	Unit 3.5:	Link, Lists, Tables, Displays			
	Unit 3.6:	Positions, Overflow, Float, inline-block			
	Unit 3.7:	CSS Menu Design CSS Image Gallery			
Module 4:	Introduction to PhP				
	Unit 4.1:	Introduction to PHP: Features and advantages, Applications of PHP, Installing			
		XAMPP/WAMP/LAMP, Configuring PHP			
	Unit 4.2:	PHP Basics: PHP syntax and tags, Variables and data types, Constants, Operators			
		(Arithmetic, Comparison, Logical)			
	Unit 4.3:	Control Structures :Conditional statements (if, else, elseif, switch), Loops (for, while,			
		do-while, foreach)			
	Unit 4.4:	Array and Functions in PHP: Array and its type, Defining and calling functions,			
		Function arguments and return values, Variable scope			
	Unit 4.5:	Working with Forms: GET and POST methods, Form handling and validation			
Module 5:		es, MySQL and Error Handling in PhP			
	Unit 5.1	PHP and Web Features: Working with cookies, Session management			
	Unit 5.2	File handling: open, read, write			

	Unit 5.3 PHP and MySQL :Introduction to databases, Connecting PHP v	
	Unit 5.4	CRUD operations: Create, Read, Update, Delete

- 1. IvanByross, "WebEnabledCommercialApplicationDevelopmentUsing. HTML, JavaScript, DHTML and PHP", BPB Publication#TB1
- 2. https://www.w3schools.com/
- 3. https://www.tutorialspoint.com/index.htm
- 1. Welling, L., & Thomson, L. (2017). PHP and MySQL Web Development (5th ed.). Addison-Wesley
- 2. Holzner, S. (2008). PHP: The Complete Reference. McGraw-Hill Education.

- ${\tt 3.\,DTE} ditorial, "WebTechnology: BlackBook", dream teach$
- ${\tt 4.\,Thomas A.Powell, "The Complete Reference HTML\&CSS", McGraw Hill}$

SYLLABUS

PROGRAM:PGDCA SEMESTER:II WEF:2024-25

CourseCode:PGDCA203 | Credit:03 | Course: RDBMS Concepts | L:03|T:01|P:00

No.	Module Description		
Module 1:	Relational D	Patabase Design	
	Unit 1.1:	E.F. Codd's Rule	
	Unit 1.2:	Functional dependency, Armstrong's Inference rules	
	Unit 1.3:	Decomposition of Relations: Lossless Join and Dependency Preservation Property	
	Unit 1.4:	Normalization: First, Second and Third Normal Form	
	Unit 1.5:	Denormalization	
Module 2:	Procedural S	QL	
	Unit 2.1:	Compound statements and labels	
	Unit 2.2:	Overview of Control and Iterative statements: IF,CASE, LEAVE, WHILE,LOOP	
	Unit 2.3:	Cursors: OPEN, CLOSE and FETCH	
	Unit 2.4:	User Defined Function: Need, RETURN statement	
	Unit 2.5:	Stored Procedure: Need and usage	
Module 3:	Triggers		
	Unit 3.1:	Triggers and their usage	
	Unit 3.2:	Trigger Activation	
	Unit 3.3:	BEFORE and AFTER trigger	
	Unit 3.4:	COMMIT, ROLLBACK, SAVEPOINT	
Module 4:	Transaction	Processing	
	Unit 4.1:	Transaction: Introduction, Transaction Model	
	Unit 4.2:	Properties of Transactions	
	Unit 4.3:	Transaction isolation, Schedules: Serial, Non-Serial Schedules	
	Unit 4.4:	Serializability, Conflict Serializability	
Module 5:	Concurrency Control		
	Unit 5.1:	Concurrent Transactions: Purpose	
	Unit 5.2:	Concurrency Control Protocol: Two Phase Locking(2PL) Protocol	
	Unit 5.3:	Strict 2PL, Conservative 2PL	
	Unit 5.4:	Deadlock and Starvation	
	Unit 5.5:	Deadlock Detection and Resolution: Wait-for graph	

Text Books/Resources:

- 1. Henry F. Korth, "Database System Concepts", TataMcGrawHills
- 2. IvanBayross, MySQL5.1 for Professionals, SPD

- ${\tt 1.\, Elmas riand Nava the, "Fundamentals of Database Systems", Pears on Education.}$
- 2. ThomasConnollyandCarolynBegg, "DatabaseSystems, APracticalApproach to Design Implementation and Management", PearsonEducation

- 3. MySQL Referencehttps://www.mysqltutorial.org/
- 4. MySQL Reference Manual -https://dev.mysql.com/doc/refman/8.0/en/

	PR	OGRAM	I:PGDCA	SYLLABUS SEMESTER:II	WEF:2024-25	
Course Cod	le: PGDCA205		Credit:04	Course: Operating S	System Fundamentals	L:03 T:01 P:00
No.	Module Description				otion	
Module 1:	Introduction					
	Unit 1.1:	Definiti	on and fund	ction of an operating s	ystem	
	Unit 1.2:	Types c	of operating	g system: batch, time-s	haring, real-time, distril	outed, embedded
	Unit 1.3:	System call and interface				
	Unit 1.4:	The role	e of OS in a	computing environme	ent	
	Unit 1.5:	OS stru	cture: Mon	olithic, microkernel, h	ybrid architectures	
Module 2:	Operating Sy	stem Se	rvices			
	Unit 2.1:	Process	manageme	ent and scheduling		
	Unit 2.2:	Memor	y managem	nent		
	Unit 2.3:	File sys				
	Unit 2.4:		nagement			
	Unit 2.5:	Device	drivers			
	Unit 2.6:	Security	y and prote	ctions		
Module 3:	Processes N	s Management				
	Unit 3.1:	Concep	t of process	ses, threads, and prog	rams	
	Unit 3.2:	Process	state mode	el		
	Unit 3.3:	Process	scheduling	g and CPU scheduling a	algorithms	
	Unit 3.4:	Context	t switching			
Module 4:	Memory Ma	emory Management				
	Unit 4.1:			ry Allocation		
	Unit 4.2:		Techniques entation	: Swapping, Paging, Se	egmentation,	
	Unit 4.3:	Deman	d Paging.			
	Unit 4.4:	Page Re	eplacement	: : Page Replacement A	Algorithm	
	Unit 4.5:	Virtual	Memory.			
Module 5:	Linux OS					
	Unit 5.1:	Introdu	ction to Lin	nux		
	Unit 5.2:	Linux Fi	le System 8	& Directory Structure		
	Unit 5.3:	Linux co		Basic Linux Commands	s, User & Group Manag	ement, Process
	Unit 5.4:	Shell sc	ripting: Bas	sics of Shell Scripting, Ving and Executing Scrip	/ariables, Loops, and Co	onditional
	Unit 5.5:	VI Edito				
	•	•				

1. Abraham Silberschatz, Peter B Galvin, and Gerg Gagne – "Operating System Concepts", Wiley.

INSTRUCTIONS TO STUDENTS FOR FORMATTING THE ASSIGNMENTS

- 1. This booklet contains the assignments for the entire (All Semester) programme. Each course has one assignment. All assignments should be completed and submitted at MCODE MATS University/ study centre before the due date.
- 2. Please note that you will not be allowed to appear for the Term End Examinations for the course, until the assignments are submitted before the due date.
- 3. The assignments constitute the continuous component of the evaluation process and have 30% weightage in the final grading. You need to score minimum marks as per Examinations Scheme of Particular Programme in assignment in each course in order to clear the continuous evaluation component.
- 4. The assignment should be hand written on a A-4 size paper with proper cover which contains all the required information as given on the next page. You can use the photocopy of the cover for each assignment.
- 5. Leave at least 4 cm margin on the left, top and bottom of your answer sheets for the evaluator's comments.
- 6. Your answers should be brief, precise and in your own words. Please do not copy the answers from the study material.
- 7. Please do not copy the assignment from another student.
- 8. While solving the questions, clearly indicate the question number along with the part being solved. Recheck your work before submitting it.
- 9. You may retain a copy of your assignment response to avoid any unforeseen situation.
- 10. You can resolve the difficulties you may face while studying the course material by sending an e-mail to Programme coordinator MCODE / study centre coordinator. However, the coordinator will not provide solutions to the assignment questions, since they constitute an evaluation component.

Note: Assignments of the course are available for download at the MATS University Website http://www.matsuniversity.ac.in . You can download the assignments as per your course, follow the instructions given and submit it before due dates at the MCODE MATS University/study centre.

GUIDELINE FOR PREPARATION OF DISSERTATION REPORT

PROJECT REPORT FORMAT MCODE PROGRAMME

The Project Report consists of three main parts (i) The Preliminaries (ii) The Text (iii) Annexure. It is to be arranged in the following sequence.

THE PRELIMINARIES:

- ❖ Title Page (Outer Cover) as per the format given in Annexure III, (should be printed in White Color on a Navy Blue background).
- ❖ Title Page (Inner Cover) as per the format given in Annexure IV
- ❖ Declaration by the candidate (Annexure V)
- ❖ Certificate of Supervisor/s (Annexure VI)
- ❖ Acknowledgements (Annexure VII)
- ❖ Table of Contents (Annexure VIII)
- **❖** Abstract/Preface
- List of Tables (If applicable)
- List of Figures (If applicable)
- List of abbreviations (Optional)
- ❖ Chapter –I to continue according to the table of contents.

THE TEXT OF THE PROJECT REPORT

The text the Project Report is usually divided in to chapters with subheadings, within the chapters to indicate the orderly progression of topics and their relation to each other

Chapter-I Introduction: - The Project Report should normally begin with a general introduction presenting an overview of the purpose and significance of the study. The introduction should show why the topic selected is worth investigating. This will normally be done with reference to existing research, identifying areas that have not been explored, need to be explored. The final section of the introduction should provide a brief overview of each of the main chapters that the reader will encounter.

Chapter-II Review of Related Literature: - The purpose of the literature review is to summarize, evaluate and compare the main developments and current database in the field which are specifically relevant to the subject of research embodied in the Project Report.

Chapter-III Research Methodology: - The supervisor and the student may decide how this part of the Project Report should be structured. Although this section varies depending up on method and analysis technique chosen, the chapter describes and justifies the methods chosen for the study and why this method was the most appropriate.

Chapter-IV Observations & Analysis: - Observations, Analysis and Interpretation should be done as per data collected from sample.

Chapter-V Results Conclusions and Suggestions: The results are actual statement of observations, including statistics, tables and graphs. Do not present the same data as graph as well as table. Use one of the appropriate styles of presentation. The purpose of this chapter is not just to reiterate the findings but discuss the observation in relation to the theoretical body of knowledge on the topic.

Bibliography Citation in Text: Citation in the text usually consists of the name of the author(s) and the year of the publication. The page no is added when utilizing a direct quotation. It should be arranged Alphabetically.

Example (i): Thomas (2007) identified....

Example (ii): Gould and Brown (1991, p. 14) used the

Example (iii): Rhoades et. al (2008) define the

References: All publications listed in the Project Report should be presented in a list of references, following the sample.

Citation from Project Report:

➤ Kundur., D. (1999), Multiresolution Digital Watermarking: Algorithms and Implications for Multimedia Signals. Ph.D Project Report, University of Toronto.

Citation from Journal:

- ➤ Clifford, G. D. and Tarassenko., s L. (2001), One-pass Training of Optimal Architecture Auto-associativeNeural Network for Detecting Ectopic Beats. Electron Letters. 37(18): 1126–1127.
- ➤ Rhoades, B.E. (1997), A Comparison of various definitions of Contractive mappings, Trans.Amer.Math.Soc.,Vol. 5, no.3, 257-290.

Citation from Books:

- Thompson, D. ed., (1995), The Concise Oxford Dictionary of Current English. Oxford, UK: Oxford University Press, 9th ed. ISBN No.: 0987654.
- Lindsay, D. (1999), A Guide to Scientific Writing, Melbourne, Chapter 2, Australia: Addison Wesley Longman Australia, 2nd ed. ISBN No.: 12345678.

Citation from Website:

Anonymous, unZign, "Tool for Evaluating a Variety of Watermarks", http://altern.org/watermark/, (Browsing date: 23rd September 1997)

Publication of the University of Geneva (on digital watermarking): http://cuiwww.unige.ch/~vision/Publications/watermarking_publications.html (Browsing Date: 4thJanuary 2006)

Citation from patent:

Gustafsson J. K. (1976), "Analog-digital converter for a resistance bridge", Patent U. S. 3960010, June 1.

References must be given alphabetically in References section and in text as

Clifford. G. D. and Tarassenko. L. (2001) suggested that.....

Appendices:

• Questionnaire /Formula /Diagnosis/Any other Supporting Documents

GUIDELINES FOR WRITING: -

1. Font size	For English	Font size For Hindi
Title Page	18-24	18-24

Headings / subheadings	12-16	16-20
Text	12	14
Footnotes	8-10	10-12

Footnotes be given on the same page where reference is quoted

2. Type style

Times New Roman for English

Kruti dev 10 for Hindi

3. Margins.

At least $1\frac{1}{4}$ - $1\frac{1}{2}$ inches (3.17-3.81cm) on the left-hand side, 3/4 - 1 inch (2 -2.54cm) at the top and bottom of the page, and about $\frac{1}{2}$ - 0.75 inches (1.27 - 1.90cm) at the outer edge. The best position for the page number is at top-center or top right $\frac{1}{2}$ inch (1.27 cm) below the edge. Pages containing figures and illustration should be suitable paginated.

- **4.** The *Project Report* shall be computer typed (**English** British, Font Style -Times Roman, Size-12 point, **Hindi** Font Style -Krutidev-10, Size-14) and printed on A4 size paper.
- **5.** The *Project Report* shall be typed on one side only with double space with appropriate margin.
- **6.** Use only standard abbreviations. Avoid abbreviations in the title. The full term for which an abbreviation stands should precede its first use in the text except in case of measurement units. The measurement units if any shall be followed consistently.
- 7. Maintain uniformity in writing the *Project Report*.
- **8.** All copies of the *Project Report* are to be bound in colored hard cover (according to color code) of the *Project Report*.
- 9. The final submission of the *Project Report* shall be in 03 hard bound copies and 01 soft copy (MS Word) in a CD along with all the corrections and suggestions as recommended before.

THE TITLE OF THE PROJECT REPORT IN THE OUTER COVER SHALL LOOK EXACTLY LIKE THIS TITLE

(Font: Times New Roman, Size:16, Bold, Line Spacing: 1 ½, Centered)

{Here put a gap of 4 lines}

Project Report submitted to

(Font: Times New Roman, Size: 12, Bold, centered)
{Here put a gap of one line}



<University's logo>

MATS Centre of Online Education MATS University Raipur (C.G.)

(Font: Times New Roman, Size: 14, Bold, centered)
{Here put a gap of one line}

For the award of the degree of

(Font: Times New Roman, Size: 12, Bold, centered)
{Here put a gap of one line}

PROGRAMME NAME

(Font: Times New Roman, Size: 14, Bold, centered)

{Here put a gap of two lines}

by

(Font: Times New Roman, Size: 12, Bold, centered)
{Here put a gap of two lines}

<NAME OF THE STUDENT>

(Font: Times New Roman, Size: 14, Bold, centered)

Registration No.: <>

(Font: Times New Roman, Size: 12, Bold, centered)

<Year>

(Font: Times New Roman, Size: 12, Bold, centered)

© < Year >< Name of the student >. All rights reserved.

(Font: Times New Roman, Size: 10, Bold, Centered)

ANNEXURE-IV (Inner cover)

THE TITLE OF THE PROJECT REPORT IN THE INNER COVER SHALL LOOK EXACTLY LIKE THIS TITLE

(Font: Times New Roman, Size:16, Bold, Line Spacing: 1 ½, Centered)

{Here put a gap of 4 lines}

Project Report submitted to

(Font: Times New Roman, Size: 12, Bold, centered)
{Here put a gap of one line}

MATS University

Raipur (C.G.)

(Font: Times New Roman, Size: 14, Bold, centered)
{Here put a gap of one line}

For the award of the degree

of

(Font: Times New Roman, Size: 12, Bold, centered)
{Here put a gap of one line}

PROGRAMME NAME

(Font: Times New Roman, Size: 14, Bold, centered)
{Here put a gap of two lines}

by

(Font: Times New Roman, Size: 12, Bold, centered)
{Here put a gap of two lines}

<NAME OF THE STUDENT>

(Font: Times New Roman, Size: 14, Bold, centered)

Under the Guidance of

(Font: Times New Roman, Size: 12, Bold, centered)

<NAME OF THE SUPERVISOR/S>

(Font: Times New Roman, Size: 14, Bold, centered)

<Year>

(Font: Times New Roman, Size: 12, Bold, centered)

©<*Year*><*Name of the student*>. All rights reserved.

(Font: Times New Roman, Size: 10, Bold, Centered)

ANNEXURE-V

DECLARATION

I the undersigned solemnly declare that the Project Report entitled "**title of the work**" is based on my own work carried out during the course of my study under the supervision of < name of supervisor >.

I assert that the statements made and conclusions drawn are an outcome of my research work.

I further certify that

- i. The work contained in the Project Report is original and has been done by me under the general supervision of my supervisor (s).
- ii. The work has not been submitted to any other Institute for any other Degree/Diploma/Certificate in this University or any other University of India or abroad.
- iii. I have followed the guideline provided by the University in writing the Project Report.
- iv. I have conformed to the norms and guidelines given in the concernedOrdinance of the University.
- v. Whenever I have used materials (data, theoretical analysis, and text) from other sources, I have given due credit to them by citing them in the text of the Project Report and giving their details in the references.
- vi. Whenever I have quoted written materials from other sources, I have put them under quotation marks and given due credit to the sources by citing them and giving required details in the references.

(Name & Signature of the Student)
Registration No.

ANNEXURE-VI

CERTIFICATE

This is to certify that the work incorporated in the Project Report entitled "title of the Project Report" is a record of own work carried out by **Name of Student** > under my supervision for the award of degree of **Programme Name** of MATS Centre of Open and Distance EducationMATS University, Bilaspur (C.G.)-India.

To the best of my knowledge and belief the Project Report:

- i. Embodies the work of the candidate himself/herself,
- ii. Has duly been completed.
- iii. Is up to the desired standard both in respect of contents and language for being referred to the examiners.

Supervisor(Name and signature of the Supervisor With designation and Name of

Organization)

(Signature of Academic Coordinator) (Seal of MCODE)

ANNEXURE-VII

ACKNOWLEDGEMENT

Acknowledgements should be brief and should not exceed one page. Acknowledgements should be duly signed by the candidate. Gratitude may be expressed to only those who really contributed to the work directly or indirectly. Name of student should appear at the bottom of the page.

SAMPLE ACKNOWLEDGEMENT

It is a matter of immense pleasure to express the overwhelming sense of gratitude, devotion,
incontestable regards to my esteemed & learned guides <> who have striven to
perfect my project report.
Finally, I express my indebtedness to all who have directly or indirectly contributed to the
successful completion of my project work.
< Name of Student >

ANNEXURE-VIII

TABLE OF CONTENTS

Abstract /Preface		I
List of Tables: (If app	olicable)II	
List of Figures :(If ap	oplicable)	III
List of Abbreviations	/Symbols (If applicable)I	V
Chapter-I	Introduction	
Chapter-II	Review of Related Literature	
Chapter-III	Research Methodology	•••••
Chapter-IV	Observation And Analysis	•••••
Chapter-V	Result, Conclusions and Suggestions	•••••
Bibliography	As per style given in reference section of text of the project report.	
Appendixes	Questionnaire/Formula/Diagnosis/Any other Supporting Documents	

Final Instructions for Submitting Assignments

- All assignments should be completed and submitted at MCODE study centre before the due date.
- All the Assignment should be written by the learners, in some aspects print out of the assignment also accepted.
- The date of submission will be provided by the programme coordinator.
- The assignments constitute the continuous component of the evaluation process and have 30% weightage in the final grading. You need to score minimum marks as per Examinations Scheme of Particular Programme in

assignment in each course in order to clear the continuous evaluation component.

- Without submission of the assignment learners are not allowed to be appear in the term end examination.
- Assignments should be brief, precise and in your own words. Please do not copy the answers from the study material.
- You may retain a copy of your assignment response to avoid any unforeseen situation.

Guidelines for Project Submission

- The Project Report consists of three main parts:
 - (i) The Preliminaries
 - (ii) The Text
 - (iii) Annexure
- The text of the Project Report is usually divided in to chapters with subheadings, within the chapters to indicate the orderly progression of topics and their relation to each other.
- Bibliography Citation in Text: Citation in the text usually consists of the name of the author(s) and the year of the publication. The page no is added when utilizing a direct quotation. It should be arranged Alphabetically.
- The Project Report shall be computer typed and typed on one side only.
- Uniformity should be maintained in project report.
- Use only standard abbreviations. Avoid abbreviations in the title. The full term for which an abbreviation stands should precede its first use in the text except in case of measurement units. The measurement units if any shall be followed consistently.

The final submission of the Project Report shall be in three hard bound copies and one soft copy in MS Word along with all the corrections and suggestions as recommended before.

MATS University-MCODE Programme Guide - FACULTY OF Information Technology

<u>Note</u>	







MATS CENTRE FOR DISTANCE AND ONLINE EDUCATION

UNIVERSITY CAMPUS: Aarang Kharora Highway, Aarang, Raipur, CG, 493 441
RAIPUR CAMPUS: MATS Tower, Pandri, Raipur, CG, 492 002

T: 0771 4078994, 95, 96, 98 M: 7880001772, 7880001774 Toll Free: 1800 123 819999

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E-mail for online mode: oladmissions@matsuniversity.ac.in
Website: www.matsodl.com & www.matsuniversityonline.com