

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
DEPARTMENT OF MCA

STUDENT INFORMATION HANDBOOK

**MASTER OF COMPUTER APPLICATIONS &
MASTER OF SCIENCE IN INFORMATION TECHNOLOGY
SEMESTER-2**

2022-23

**Parul Institute of Engineering &
Technology-MCA & M.Sc. IT**

Department of MCA & M.Sc. IT

Advancements in Information & Communication Technologies (ICT) has emerged in extensive usage of computer applications in nearly all domains of society. In modern era, computer applications are prevalent and largely demanded in several areas of society including Management Information Systems, Medical Science, Social Networks, Business Applications, Mobile Applications, Financial & Banking Applications, Educational Software, Decision Support Systems, Scientific Applications and Commercial Applications.

Looking to the enormous demand of computer application professionals in diversified areas of society, Parul University offers the Master of Computer Application (MCA) and Master of Science in IT (MScIT) PG programmes under Faculty of IT & Computer Science.

Our institute at Parul University emphasizes on building professionals in the domain of IT, Computer Science and Computer Applications by providing necessary environment by means of facilitating suitable blend of technical and non-technical learning experience. **The department cultivates students in various curricular, co-curricular and extra-curricular activities in order to produce future system analysts, system designers, system programmers, application programmers, testing professionals, system managers, project managers, researchers and other leading positions in systems/IT department.**

The department offers various subjects from diversified technical/non-technical areas such as – core IT domain, management, communication skills, mathematics & logic building and rich pool of elective subjects.

By means of active collaboration with eminent academicians and industry-professionals, the Department emphasizes on continuous improvements in course curriculum, teaching-learning practices and evaluation methods. The department of MCA also emphasizes on offering diversified additional courses related to carrier development, communication skills improvement, skill development courses, vocational courses and entrepreneurship for overall development of student.

Our institute focuses on project-based learning, and hence students are motivated to work on tiny hands-on projects in practical oriented subjects to get better exposure. Moreover, throughout their MCA or M.Sc. IT studies, students are required to work on around various mini/major projects in individual/team to get enough confidence on software-development and thereby become industry-ready. Also, We encourage research & development culture at department by letting PG Students to select their domain as per their interest and made a policy to publish at least one paper in renowned journal under separate seminar subject as a fulfillment of their master degree.

Vision

Our vision is to make students contribute in the area of Computer Applications by developing innovative computing professionals to achieve excellent standards of quality education by keeping pace with rapidly changing technologies, with a promising future to bring a new level of inspiration among the students.

Mission

Our mission is to strive for excellence in development and deployment of computer applications and Empower the students to play key role through the competency based educational and training programs that promote planned and sustainable growth of the society, state, country and the entire world with employable technical skills consistent with latest technological innovations.

Program Outcomes:

No.	Program Outcomes
PO1	an ability to apply knowledge of foundations of mathematics and computer science for solving computational problems.
PO2	an ability to identify, analyze, design and propose secure and safe ICT applications.
PO3	an ability to identify problems and develop relevant ICT solutions considering safety and security constraints.
PO4	an ability to test, validate and deploy ICT applications.
PO5	an ability to apply skills to establish themselves as an asset for the organization by their managerial, interpersonal, communication and intrapreneurial abilities and ethical practices.
PO6	an ability to communicate effectively.
PO7	an ability to collect, interpret, analyze and represent data; and develop statistical solutions.
PO8	an ability to cultivate life-long learning, goal setting, positive attitude and societal responsibility.

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MCA-MScIT Academic Calendar-2022-23

PARUL UNIVERSITY FACULTY OF IT & COMPUTER SCIENCE Parul Insitute of Engineering & Technology-MCA & M.Sc. IT Academic Calendar 2022-23 (Even)								Semester		Commencement Date	
								2		06-02-2023	
Mon	Tue	Wed	Thu	Fri	Sat	Sun	Week	Holidays			
06-Feb	7	8	9	10	11	12	1	18-02-2023 - Mahashivratri			
13	14	15	16	17	18	19	2	08-03-2023 - Dhuleti			
20	21	22	23	24	25	26	3	14-04-2023 - Baba Saheb Ambedkar's Birthday			
27	28	01-Mar	2	3	4	5	4	22-04-2022 - Ramjan Eid			
6-CT	7	8	9	10	11	12	5				
13-CT	14	15	16	17	18	19	6				
20-CT	21	22	23	24	25	26	7				
27-CT	28	29	30	31	01-Apr	2	8				
3	4	5	6	7	8	9	9		Orientation Programme - Sem 2 & 4		
10	11	12	13	14	15	16	10		Mid Term Exam		
17-CT	18	19	20	21	22	23	11		Term End		
24	25	26	27	28	29	30	12		Remedial Examination		
01-May	2	3	4	5	6	7	13		Term Work Submission		
Exam			Start	End	Result				Parent Teacher Meet : 15-04-2023		
Mid Term Exam			03-04-2023	13-04-2023	15-04-2023						
Remedial Exam			20-03-2023	24-03-2022	03-04-2023						
End Semester Exam (Theory)			08-05-2023	20-05-2023	-						
End Semester Exam (Practical)			22-05-2023	27-05-2023	-						
Supplementary Exam (Theory)			22-05-2023	27-05-2023	-						
Supplementary Exam (Practical)			08-05-2023	20-05-2023	-						
Assignment Submission (Current Sem)			27-02-2023	17-04-2023	-						
Assignment Submission (Previous Sem)			20-03-2023	-	-						
Prepared By								Approved By			
Head of Department								Director & Dean-FITCS			

Orientation Date: 06th February, 2023

12.45 TO 01.35	AI - VT CC - KG BDA - VG CSF - ByteXL5 FSD - ByteXL6 ByteXL7	AD JAVA - ByteXL6 (LAB)	DCN - VD (LAB)	LIBRARY / PLACEMENT	CG - MT (LAB)	
01.35 TO 02.25	CA - BV			CA - BV		

Parul University - FITCS - MCA/MScIT

QUALITY RECORDS

At & Po Limda, Ta Waghodia, Dt. Vadodara

QR-751-3.1
CLASS TIME TABLE

CLASS TIME TABLE

COURSE: MCA/MScIT CLASS: SEM - 2 DIV-C , Room 401-Subhash Chandra Bose Bhavan

ACA YR: 2022-23 EVEN

W.E.F.:
06.02.2023

Div-3 C

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
07.30 TO 08.30	CG - MT	AD JAVA - ByteXL7	EMA - AP / BB	CA - BV	CA - BV	
08.30 TO 09.30	DCN - VG	CG - MT	AI - VT CC - KG BDA - VG CSF - ByteXL5 FSD - ByteXL6 ByteXL7	CG - MT	AD JAVA - ByteXL7	
BREAK						
09.45 TO 10.45		DCN - VG		AI - VT CC - KG BDA - VG CSF - ByteXL5 FSD - ByteXL6 ByteXL7	LIBRARY / PLACEMENT	SEMINAR - BV
10.45 TO 11.45	AD JAVA - ByteXL7 (LAB)	AI - VT CC - KG BDA - VG CSF - ByteXL5 FSD - ByteXL6 ByteXL7	AD JAVA - ByteXL7 (LAB)		DCN - PS	
BREAK						
12.45 TO 01.35	AI - VT CC - KG BDA - VG CSF - ByteXL5 FSD - ByteXL6 ByteXL7	CA - BV	CG - MT (LAB)	AD JAVA - ByteXL7	DCN - VG (LAB)	
01.35 TO 02.25	EMA - FACE	AD JAVA - ByteXL7		DCN - VG		

Parul University - FITCS - MCA/MScIT

QUALITY RECORDS

At & Po Limda, Ta Waghodia, Dt. Vadodara

QR-751-3.1
CLASS TIME TABLE

CLASS TIME TABLE

COURSE: MCA/MScIT CLASS: SEM - 2 DIV-D , Room 322-Subhash Chandra Bose Bhavan

ACA YR: 2022-23 EVEN

W.E.F.:
06.02.2023

Div-4 D

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
07.30 TO 08.30	AD JAVA - ByteXL7	DCN - BV	EMA - FACE	CG - HC	LIBRARY / PLACEMENT	
08.30 TO 09.30	CG - HC	AD JAVA - ByteXL7	AI - VT CC - KG BDA - VG CSF - ByteXL5 FSD - ByteXL6 ByteXL7	EMA - AP / BB	CA - DS	
BREAK						
09.45 TO 10.45	DCN - BV	CA - DS	DCN - PS	AI - VT CC - KG BDA - VG	AD JAVA - ByteXL7 (LAB)	

10.45 TO 11.45	CA - DS	AI - VT CC - KG BDA - VG CSF - ByteXL5 FSD - ByteXL6 ByteXL7	CG - HC	CSF - ByteXL5 FSD - ByteXL6 ByteXL7		SEMINAR - BV
BREAK						
12.45 TO 01.35	AI - VT CC - KG BDA - VG CSF - ByteXL5 FSD - ByteXL6 ByteXL7	CG - HC (LAB)	AD JAVA - ByteXL7 (LAB)	DCN - BV	DCN - BV (LAB)	
01.35 TO 02.25	AD JAVA - ByteXL7			AD JAVA - ByteXL7		

Teaching Schemes of various specialization



PARUL UNIVERSITY

WAGHODIA, VADODARA

Subject Teaching & Examination Scheme

Course : MCA (A.Y.-II) 2020 | Curriculum : IT & COMPUTER SCIENCE – MCA (A.Y.-II) – 2021-22 - Artificial Intelligence

Semester - 2

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
05201251	Advanced Java Programming	6	4	4	0	20	20	20	60	30	50	25	150
05201253	Data Communications and Networking	5	4	2	0	20	20	20	60	30	50	25	150
05201254	Comprehensive Assessment	3	3	0	0	-	20	20	-	60	-	50	100
05201255	Seminar	1	0	2	0	-	20	20	-	60	-	50	100
05201294	Artificial Intelligence - I	5	3	2	1	20	20	20	60	30	50	25	150
05201330	Computer Graphics	4	3	2	0	20	20	20	60	30	50	25	150
05293252	English and Mathematical Aptitude	2	2	-	-	-	-	100	-	-	50	-	100
Total		26	19	12	1								900

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical
Theory Passing % : 50 Practical Passing % : 50



PARUL UNIVERSITY

WAGHODIA, VADODARA

Subject Teaching & Examination Scheme

Course : MCA (A.Y.-II) 2020 | Curriculum : IT & COMPUTER SCIENCE – MCA (A.Y.-II) – 2021-22 - Big Data Analytics

Semester - 2

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
05201251	Advanced Java Programming	6	4	4	0	20	20	20	60	30	50	25	150
05201253	Data Communications and Networking	5	4	2	0	20	20	20	60	30	50	25	150
05201254	Comprehensive Assessment	3	3	0	0	-	20	20	-	60	-	50	100
05201255	Seminar	1	0	2	0	-	20	20	-	60	-	50	100
05201295	Big Data Analytics - I	5	3	2	1	20	20	20	60	30	50	25	150
05201330	Computer Graphics	4	3	2	0	20	20	20	60	30	50	25	150
05293252	English and Mathematical Aptitude	2	2	-	-	-	-	100	-	-	50	-	100
Total		26	19	12	1								900

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical
Theory Passing % : 50 Practical Passing % : 50

**Semester - 2**

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
05201251	Advanced Java Programming	6	4	4	0	20	20	20	60	30	50	25	150
05201253	Data Communications and Networking	5	4	2	0	20	20	20	60	30	50	25	150
05201254	Comprehensive Assessment	3	3	0	0	-	20	20	-	60	-	50	100
05201255	Seminar	1	0	2	0	-	20	20	-	60	-	50	100
05201289	Cloud Computing - I	5	3	2	1	20	20	20	60	30	50	25	150
05201330	Computer Graphics	4	3	2	0	20	20	20	60	30	50	25	150
05293252	English and Mathematical Aptitude	2	2	-	-	-	-	100	-	-	50	-	100
Total		26	19	12	1								900

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical
Theory Passing % : 50 Practical Passing % : 50

**Semester - 2**

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
05201251	Advanced Java Programming	6	4	4	0	20	20	20	60	30	50	25	150
05201253	Data Communications and Networking	5	4	2	0	20	20	20	60	30	50	25	150
05201254	Comprehensive Assessment	3	3	0	0	-	20	20	-	60	-	50	100
05201255	Seminar	1	0	2	0	-	20	20	-	60	-	50	100
05201296	Cyber Security & Forensics - I	5	3	2	1	20	20	20	60	30	50	25	150
05201330	Computer Graphics	4	3	2	0	20	20	20	60	30	50	25	150
05293252	English and Mathematical Aptitude	2	2	-	-	-	-	100	-	-	50	-	100
Total		26	19	12	1								900

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical
Theory Passing % : 50 Practical Passing % : 50

**Semester - 2**

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
05201251	Advanced Java Programming	6	4	4	0	20	20	20	60	30	50	25	150
05201253	Data Communications and Networking	5	4	2	0	20	20	20	60	30	50	25	150
05201254	Comprehensive Assessment	3	3	0	0	-	20	20	-	60	-	50	100
05201255	Seminar	1	0	2	0	-	20	20	-	60	-	50	100
05201293	Full Stack Web Developer - I	5	3	2	1	20	20	20	60	30	50	25	150
05201330	Computer Graphics	4	3	2	0	20	20	20	60	30	50	25	150
05293252	English and Mathematical Aptitude	2	2	-	-	-	-	100	-	-	50	-	100
Total		26	19	12	1								900

Lect - Lecture, Tut - Tutorial, Lab - Lab, T - Theory, P - Practical, CE - CE, T - Theory, P - Practical
Theory Passing % : 50 Practical Passing % : 50

Subject-wise Google websites Links and Google Classroom Codes

Subject Code	Subject Name	Link of A-Z Website	Google Classroom/ PULMS Code
05201251	Advanced Java Programming	https://sites.google.com/paruluniversity.ac.in/ajp/home	from faculty
05201253	Data Communications and Networking	https://sites.google.com/a/paruluniversity.ac.in/pu-dcn/	from faculty
05201254	Comprehensive Assessment	https://sites.google.com/a/paruluniversity.ac.in/pu_mca_ca/	from faculty
05201330	Computer Graphics	https://sites.google.com/paruluniversity.ac.in/computergraphics-mca/	from faculty
05201294	Artificial Intelligence-I	Will be provided by AI Subject faculty	
05201295	Big Data Analytics-I	https://sites.google.com/paruluniversity.ac.in/bigdataanalytics2021/home	from faculty
05201289	Cloud Computing-I	https://sites.google.com/paruluniversity.ac.in/cloudcomputing/	from faculty
05201296	Cyber Security & Forensics-I	https://sites.google.com/paruluniversity.ac.in/cyber-security-and-forensics/home	from faculty
05201293	Full Stack Web Developer-I	https://sites.google.com/paruluniversity.ac.in/mcamscit-full-stack-web-develp/home	from faculty

Theory Assignment Submission Schedules

PARUL UNIVERSITY : MCA DEPARTMENT : THEORY ASSIGNMENT SUBMISSION SCHEDULE A.Y. 2022-23 (EVEN TERM)					
Semester-2	Assignment-1	Assignment-2	Assignment-3	Final Assignments Submission	
AJP	27-02-2023	20-03-2023	10-04-2023	17-April-2023	
DCN	28-02-2023	21-03-2023	11-04-2023	17-April-2023	
CG	01-03-2023	23-03-2023	12-04-2023	17-April-2023	
Specialization Subjects (AI, BD, CC, CSF, FSWD)	02-03-2023	24-03-2023	13-04-2023	17-April-2023	
Final Term Submission on 13th May, 2022					

Remedial Assignment Submission Schedule

Semester-1	Assignment [For 20 Marks]
Java Programming	20-MARCH-2023 (MONDAY)
Software Engineering	
Advanced Database Management Systems	
Open Source Technologies using PHP	
Data Structures	
Final Remedial Assignment Submission Date	

Weekly Class Test Schedule for MCA & M.Sc. IT Semester-2

Date	Subjects
06.03.2023	05201251 - Advanced Java Programming
13.03.2023	05201253 - Data Communication and Networking
20.03.2023	05201254 - Comprehensive Assessment
27.03.2023	05201330 - Computer Graphics
17.04.2023	05201294 Artificial Intelligence-I 05201295 Big Data Analytics-I 05201289 Cloud Computing-I 05201296 Cyber Security & Forensics-I 05201293 Full Stack Web Developer-I

Mid-Semester Exam Schedule for MCA & M.Sc. IT Semester-2 [April-2023]

Mid-Practical Exam Time Table

Date	Time	Semster-2
07.04.2023 Friday	08.00 AM Onward	05201251 Advanced Java Programming
08.04.2023 Saturday	08.00 AM Onward	05201253 Data Communication and Networking
10.04.2023 Monday	08.00 AM Onward	05201330 Computer Graphics
11.04.2023 Tuesday	08.00 AM Onward	05201294 Artificial Intelligence-I 05201295 Big Data Analytics-I 05201289 Cloud Computing-I 05201296 Cyber Security & Forensics-I 05201293 Full Stack Web Developer-I
12.04.2023 Wednesday	08.00 AM Onward	05201255 Seminar (Viva)
13.04.2023 Thursday	08.00 AM Onward	05201254 Comprehensive Assessment Viva

Mid-Theory Exam Time Table

Date	Time	Semster-2
03.04.2023 Monday	10.00 AM to 11:30 AM	05201251 Advanced Java Programming
04.04.2023 Tuesday	10.00 AM to 11:30 AM	05201253 Data Communication and Networking
05.04.2023 Wednesday	10.00 AM to 11:30 AM	05201330 Computer Graphics
06.04.2023 Thursday	10.00 AM to 11:30 AM	05201294 Artificial Intelligence-I 05201295 Big Data Analytics-I 05201289 Cloud Computing-I 05201296 Cyber Security & Forensics-I 05201293 Full Stack Web Developer-I

Remedial Exam Time Table for Sem-1 & Sem-3 Subjects for Students having backlog subject in previous ESE:

Date	Time	Semester-1	Semster-3
20.03.2023 Monday	09.30 AM to 10:30 AM	05201201 Java Programming (Theory)	05201301 Mobile Apps Development (Theory)
	10.30 AM to 11:30 AM	05201201 Java Programming (Practical)	05201301 Mobile Apps Development (Practical)
21.03.2023 Tuesday	09.30 AM to 10:30 AM	05201106 Software Engineering (Theory)	05201302 Web Appl. Development (Theory)
	10.30 AM to 11:30 AM	05201106 Software Engineering (Practical)	05201302 Web Appl. Development (Practical)
23.03.2023 Thursday	09.30 AM to 10:30 AM	05201107 Adv. Database Mgmt. Systems (Theory)	05201333 Open Source Tools & Frameworks (Theory)
	10.30 AM to 11:30 AM	05201107 Adv. Database Mgmt. Systems (Practical)	05201333 Open Source Tools & Frameworks (Practical)
24.03.2023 Friday	09.30 AM to 10:30 AM	05201204 Open Source Tech. using PHP	05201339 Software Testing & Quality Assurance
	10.30 AM to 11:30 AM	05201204 Open Source Tech. using PHP (Theory)	05201339 Software Testing & Quality Assurance (Practical)
25.03.2023 Saturday	09.30 AM to 10:30 AM	05201151 Data Structures (Theory)	-NA-
	10.30 AM to 11:30 AM	05201151 Data Structures (Practical)	05201303 Minor Project (Viva)

To Whom for What @ MCA-MScIT Department

Sr. No	Responsibility	NAME		Mobile Number
1	Director-MCA & Dean-FITCS	Dr. Priya Swaminarayan	priya.swaminarayan@paruluniversity.ac.in	9427857621
2	Head of Department, PIET-MCA, Institute Exam Coordinator	Prof. Vivek Dave	vivek.dave@paruluniversity.ac.in	8128313699
3	Placement Coordinator, Sports Coordinator, NPTEL, PUMIS	Prof. Kaushal Gor	kaushal.gor@paruluniversity.ac.in	9824569119
4	TT Coordinator	Prof. Hardik Parmar	hardik.parmar26611@paruluniversity.ac.in	9586607479
5	Lab Technician	Mr. Bhavesh Kharva	BHAVESH.KHARVA2836@paruluniversity.ac.in	9714166461
6	Admin Staff for administrative work	Ms. Rekha Parmar	REKHA.PATEL26480@paruluniversity.ac.in	8140589473
7	Event Coordinator	Dr. Abhishek Mehta	abhishek.mehta7067@paruluniversity.ac.in	9898735028

MCA - MScIT SEM-2 Division Bifurcation wef 06-02-2023

Specialization-wise Counts

Specialization	MCA Count	MScIT Count	Total Count
AI	47	7	54
BDA	24	4	28
CC	37	9	46
CSF	77	14	91
FSW	168	23	191
Total	353	57	410

DIVISIONS BIFURCATION

Division Name	STUDENTS		Total in Division	Room No at Agriculture Building
Division-1	CC-All (46) and	AI-All (54)	100	201
Division-2	CSF-All (91) and	BDA (MCA-1 to 14)	105	205
Division-3	FSW (MCA-1 to 100)		100	401
Division-4	FSW (MCA-101 to 168 & MScIT-1 to 23) and	BDA (MCA-14 to 24 & MScIT-1 to 4)	105	322

WISHES to ALL
