



SARVAJANIK
UNIVERSITY

INCLUSIVE | INTEGRATED | INNOVATIVE

Faculty of Science
Shree Ramkrishna Institute of Computer
Education & Applied Sciences, Surat
M.Sc. Web and Mobile Technology

Master of Science Web and Mobile Technology 2021-22

Introduction:

MSc Web and Mobile Development Technology is aimed at providing firm grounding in strategic web development skills, with a specific focus on mobile development and user experience.

The programme aims to empower you to understand the current shape of emerging technologies in web, mobile and cloud and to develop lifelong learning skills.

This programme focuses on mobile development and web development skills needed to succeed in the cutting edge of technology. You will study the core skills required to gain a deep understanding of contemporary web and mobile development, industry practice and analysis which forms the basis of next generation technologies.

Objective of the Programme:

The Objective of the programme is to impart knowledge of fundamentals and/or latest theories, concepts, methods, techniques and tools related to various areas of web and mobile Applications specifically in the area of Mobile based, cloud based, Web based Application Development.

Program Outcome:

At the successful completion of the program, students will be able to start their career in the field of web and mobile application development in the Software industry.

Eligibility Criteria:

Any candidate who has passed-

Bachelor's degree in Computer Science / Computer Applications / Information Technology / Cyber Security/ Data Science / IoT / Bigdata / AI / Computer Engineering / Electronics Engineering / Electronics and Communication engineering or an equivalent examination. OR

The candidate who has passed equivalent exam from other subjects or boards need to avail eligibility certificate for this programme from the Board of Equivalence (BoE) of the Sarva Janik University.

**Semester wise course group wise credit allocation for Post Graduate Programme
(Annexure I)**

Semester	DSC		SEC		DSE		Practical		Total
	No. of Courses	Credit Th.	No. of Courses	Credit Th.	No. of Course	Credit Th.	No. of Course	Credit	
1	2	8	1	4	1	4	1	8	24
2	2	8	1	4	1	4	1	8	24
3	2	8	1	4	1	4	1	8	24
4	2	16	1	4	1	4	1	-	24
Total	08	40	04	16	04	16	04	24	96

Evaluation Scheme:

Semester	Subject group	Internal				Total Int.	External	Grand Total
		CCE	Attend.	Assign.	Internal Exam/ Viva-Voce			
1	DSC-1	40	10	20		70	30	100
	DSC-2	40	10	20		70	30	100
	SEC-1	40	10	20		70	30	100
	DSE-1	40	10	20		70	30	100
	Practical	60	20	-	60	140	60	200
Total						420	180	600
2	DSC-3	40	10	20		70	30	100
	DSC-4	40	10	20		70	30	100
	SEC-2	40	10	20		70	30	100
	DSE-2	40	10	20		70	30	100
	Practical	60	20	-	60	140	60	200
Total						420	180	600
3	DSC-5	40	10	20		70	30	100
	DSC-6	40	10	20		70	30	100
	SEC-3	40	10	20		70	30	100
	DSE-3	40	10	20		70	30	100
	Practical	60	20	-	60	140	60	200
Total						420	180	600
4	DSC-7	150	50	-	150	350	150	500
	DSE-4	30	10	-	30	70	30	100
Total						420	180	600

M.Sc. WMT Programme subject list: (Annexure-2)

Sem	Paper type	Paper No.	Paper Title
1	Core course	DSC-1	Fundamentals of Data Science
		DSC-2	Web Programming -1
	Skill Enhancement Course	SCE-1	Advanced Database Technologies
	Professional Elective	DSE-1	1. Cyber Security and Forensics-1 2. Web Engineering 3. Distributed and Parallel Computing 4. Foundation of Advanced Computing 5. Fundamentals of AI
2	Core course	DSC-3	Mobile Application Development - 1
		DSC-4	Web Programming -2
	Skill Enhancement Course	SCE-2	Advanced Cloud Programming
	Professional Elective	DSE-2	1. Cyber Security and Forensics-2 2. UI/UX development 3. Research in computing 4. Machine Learning 5. Advanced Python Programming
3	Core course	DSC-5	Mobile Application Development - 2
		DSC-6	Advance JavaScript Frameworks
	Skill Enhancement Course	SEC-3	1. Data Visualization 2. Blockchain Technology 3. Computational Linguistic 4. Social Media Mining and Analytics 5. Game Development
	Professional Elective	DSE-3	1. Bigdata & Analytics 2. Artificial Neural Network and Deep Learning 3. Internet of Things 4. Cyber Law and Practices
4	Core course	DSC-7	Project / Dissertation
	Professional Elective	DSE-4	Seminar Presentation/Review of published research paper

SRKI
Master of Science Web and Mobile Technology



Name of Program	Master of Science Web and Mobile Technology
Abbreviation	M.Sc. WMT
Duration	2 Years
Objective of Program	The Objective of the program is to impart knowledge of fundamentals and/or latest theories, concepts, methods, techniques and tools related to various areas of web and mobile Applications specifically in the area of Mobile based, cloud based, Web based Application Development.
Program Outcome	At the successful completion of the program, students will be able to start their career in the field of web and mobile application development in the Software industry.
Program Structure	

Semester 1

Course Code	Title	Teaching Hrs. per week		Course Credits	University Examination		Internal Marks	Total Marks
		Theory	Practical		Duration	Marks		
	DCS-1 Fundamentals of Data science	4		4		30	70	100
	DSC-2 Web Programming -1	4		4		30	70	100
	SEC - 1 Advanced Database Technologies	4		4		30	70	100
	DSE-1 Elective	4		4		30	70	100
	Practical		16	8		140	60	200
		16		24				600

NOTE: Following subjects are listed as elective subjects of semester.

ELECTIVE SUBJECTS

1	Cyber Security and Forensics-1
2	Web Engineering
3	Distributed and Parallel Computing
4	Foundation of Advanced Computing
5	Fundamentals of AI

Semester 2								
Course Code	Title	Teaching Hrs. per week		Course Credits	University Examination		Internal Marks	Total Marks
		Theory	Practical		Duration	Marks		
	DSC-3 Mobile Application Development – 1	4		4		30	70	100
	DSC-4 Web Programming - 2	4		4		30	70	100
	SEC-2 Advanced Cloud Programming	4		4		30	70	100
	DSC-2 Elective	4		4		30	70	100
	Practical		16	8		140	60	200
		16		24				600

NOTE: Following subjects are listed as elective subjects of semester.

ELECTIVE SUBJECTS

1	Cyber Security and Forensics-2
2	UI/UX development
3	Research in computing
4	Machine Learning
5	Advanced Python Programming