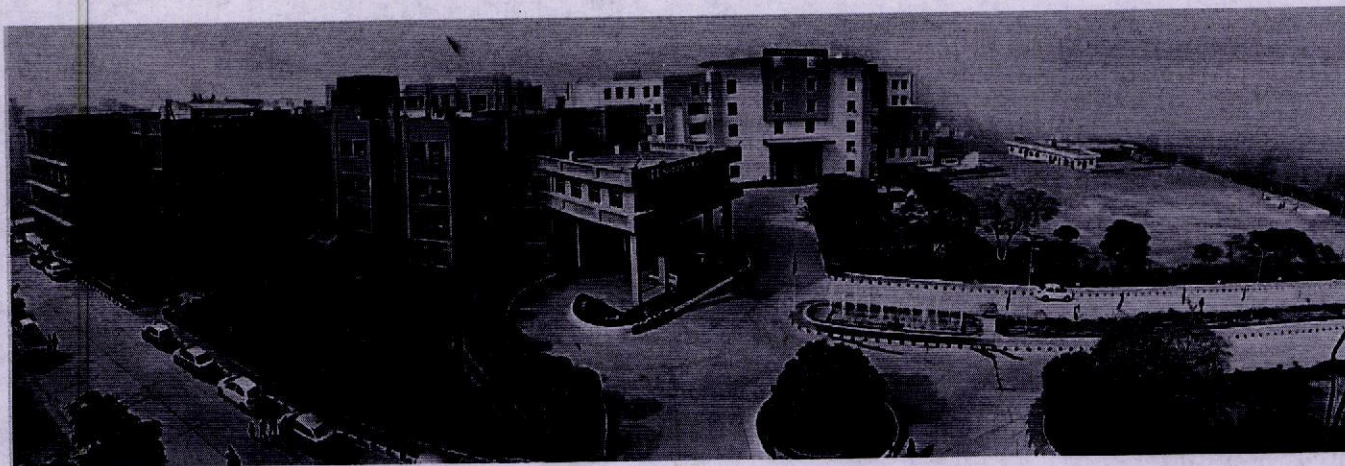


SGT University, Chandu-Budhera, Gurugram

Faculty of Engineering & Technology

Department of Computer Science & Engineering



Masters of Computer Application

Scheme & Syllabus (2021-22 Onwards)

Vision of SGT University

Registrar
SGT University
Rudhera, Gurugram

**“Driven by Research & Innovation, we aspire to be
amongst the top ten Universities in the Country by 2022”**

Masters of Computer Application

S. No.	Subject Code	Subject Name	Semester	L	T	P	C	Category A (Core/ ID/ VAC)	Category B (Compulsory/ DE/ BSC/ EAS/ OE/ MC/ IU/ MOOC)	Internal	External	Theory/ Practical
1		Problem Solving and Programming with C++(OOPS)	1st	3	0	0	3	Core	Compulsory	40	60	Theory
2		Software Testing	1st	3	0	0	3	Core	Compulsory	40	60	Theory
3		Advanced Database Management System	1st	3	0	0	3	Core	Compulsory	40	60	Theory
4		DE-I	1st	3	0	0	3	Core	DE	40	60	Theory
5		Networking technologies	1st	3	0	0	3	Core	Compulsory	40	60	Theory
6		Problem Solving and Programming with C++(OOPS) Lab	1st	0	0	2	1	Core	Compulsory	60	40	Practical
7		Software Testing Lab	1st	0	0	2	1	Core	Compulsory	60	40	Practical
8		Networking technologies Lab	1st	0	0	2	1	Core	Compulsory	60	40	Practical
9		Advanced DataBase Management System Lab	1st	0	0	2	1	Core	Compulsory	60	40	Practical
10		DE-I Lab	1st	0	0	2	1	Core	DE	60	40	Practical
11		Value Addition Course-I	1st	2	0	0	2	VAC	VAC	40	60	Theory
		Total		17	0	10	22					
1		Computer Organization & Architecture	2nd	3	0	0	3	Core	Compulsory	40	60	Theory
2		Advanced JAVA	2nd	3	0	0	3	Core	Compulsory	40	60	Theory
3		OE-I	2nd	4	0	0	4	ID	OE	40	60	Theory
4		Medical image processing	2nd	3	0	0	3	ID	EAS	40	60	Theory
5		Advanced Operating System	2nd	3	0	0	3	Core	Compulsory	40	60	Theory
6		Data Structures & Algorithm Design	2nd	3	0	0	3	Core	Compulsory	40	60	Theory
7		Advanced Operating System Lab	2nd	0	0	2	1	Core	Compulsory	60	40	Practical
8		Advanced JAVA Lab	2nd	0	0	2	1	Core	Compulsory	60	40	Practical
9		Data Structures & Algorithm Design Lab	2nd	0	0	2	1	Core	Compulsory	60	40	Practical
		Total		19	0	6	22					
1		Programming in Python	3rd	2	0	0	2	Core	Compulsory	40	60	Theory
2		Research Methodology	3rd	3	0	0	3	ID	EAS	40	60	Theory
3		DE-II	3rd	3	0	0	3	Core	DE	40	60	Theory
4		OE-II	3rd	4	0	0	4	ID	OE	40	60	Theory

Registrar
 SGT University
 Bidhnera, Gurugram

5		Mobile App Development	3rd	3	0	0	3	Core	Compulsory	40	60	Theory
6		Programming in Python	3rd	0	0	4	2	Core	Compulsory	60	40	Practical
7		DE-II Lab	3rd	0	0	2	1	Core	DE	60	40	Practical
8		Mobile App Development Lab	3rd	0	0	2	1	Core	Compulsory	60	40	Practical
9		Value Addition Course-II	3rd	2	0	0	2	VAC	VAC	40	60	Theory
		Total		17	0	8	21					
semester IV(A)												
1		DE-III	4(A)	3	0	0	3	Core	Compulsory	40	60	Theory
2		Embedded systems in Medicine	4(A)	3	0	0	3	Core	Compulsory	40	60	Theory
3		DE-III Lab	4(A)	0	0	2	1	Core	Compulsory	60	40	Practical
4		Dissertation	4(A)	0	0	4	2	Core	Compulsory	60	40	Practical
		Total		6	0	6	9					
semester IV(B)												
1		Internship	4(B)	0	0	10		Core	II	100	100	
		Total		0	0	10						
al Credits = I to IV= 84												

1. Mooc Course: Student will be offered various available SWAYAM MOOC Courses in lieu of various regular core (Compulsory and Department Electives) courses. A student can opt maximum
2. Student can opt for Honours degree by earning 18 - 20 additional credits through SWAYAM MOOC courses but with prior permission of the department and limit to the courses related to the
3. A student can have Honours degree WITH SPECIALIZATION in the particular of his/her branch by earning 18-20 additional credits in particular specialization through MOOC or Departmental

Abbreviation Used:	
ID	Interdisciplinary
VAC	Value Addition Course
DE	Department Electives
EAS	Engineering Applied Science
II	Industrial Internship

Credit Distribution	
Core	63
Other (ID +VAC)	21
Total	84

Core Credits	
Compulsory	45
Department Electives	8
II	10
Total	63

Other Credits	
Interdisciplinary	17
VAC	4
Total	21

Interdisciplinary Credits	
Engineering Applied Science	9
Open Elective	8
Total	17

Registrar
SGT University
Budhera, Gurugram

UNIVERSITY UMBRELLA (MULTIDISCIPLINARY GENERIC ELECTIVES) Open Elective

BATCH : 2021-22

Sr. No.	Faculty	Semester	Subject Code	Nomenclature	Theory/ Practical	ASSIGNED MARKS				Credits	Practical (Internal)						Scheme of Examinations (Theory+Internal/ Theory+Internal/ Theory+Internal/ Theory+Practical/ Theory+Practical)
						A	B	C	D		Attendance	Project/Laboratory Work	Medium	Conduct/Demonstration	Quiz	Exam	
1	Behavioural	Odd	MGEC01001	Basic Psychological Processes	Theory	4	0	0	0	4							Theory + Internal
2	Behavioural	Odd	MGEC01002	Personality and Behaviour	Theory	4	0	0	0	4							Theory + Internal
3	Behavioural	Odd	MGEC01003	Media Psychology	Theory	4	0	0	0	4							Theory + Internal
4	Behavioural	Odd	MGEC01004	Inclusive Education	Theory	4	0	0	0	4							Theory + Internal
5	Behavioural	Odd	MGEC01005	Childhood Communication Disorders	Theory	4	0	0	0	4							Theory + Internal
6	Education	Odd	MGEC01006	Understanding the Teaching-Learning Process	Theory	4	0	0	0	4							Theory + Internal
7	Fashion	Odd	MGEC01007	Fibre to Fabric	Theory	4	0	0	0	4							Theory + Internal
8	Fashion	Odd	MGEC01008	Cultural Studies & Traditional Embroidery	Theory	4	0	0	0	4							Theory + Internal
9	Engineering	Odd	MGEC01009	Automobile Engineering	Theory	4	0	0	0	4							Theory + Internal
10	Engineering	Odd	MGEC01010	Industrial Engineering	Theory	4	0	0	0	4							Theory + Internal
11	Engineering	Odd	MGEC01011	Total Quality Management	Theory	4	0	0	0	4							Theory + Internal
12	Engineering	Odd	MGEC01012	Water Treatment & Supply System	Theory	4	0	0	0	4							Theory + Internal
13	Engineering	Odd	MGEC01013	Solid Waste Management	Theory	4	0	0	0	4							Theory + Internal
14	Engineering	Odd	MGEC01014	Environment Impact Assessment	Theory	4	0	0	0	4							Theory + Internal
15	Engineering	Odd	MGEC01015	Computer Fundamental	Theory	4	0	0	0	4							Theory + Internal
16	Engineering	Odd	MGEC01016	Cloud Computing	Theory	4	0	0	0	4							Theory + Internal
17	Engineering	Odd	MGEC01017	Software Engineering	Theory	4	0	0	0	4							Theory + Internal
18	Science	Odd	MGEC01018	Digital and Analog Electronic Circuit and Instrumentation	Theory	4	0	0	0	4							Theory + Internal
19	Science	Odd	MGEC01019	Analytical Methods in Chemistry	Theory	4	0	0	0	4							Theory + Internal
20	Science	Odd	MGEC01020	Molecules of Life	Theory	4	0	0	0	4							Theory + Internal
21	Science	Odd	MGEC01021	Operations Research	Theory	4	0	0	0	4							Theory + Internal
22	Science	Odd	MGEC01022	Economic Offences	Theory	4	0	0	0	4							Theory + Internal
23	Nursing	Odd	MGEC01023	A Basic Introduction to the Disaster Management & Response	Theory	4	0	0	0	4							Theory + Internal
24	Nursing	Odd	MGEC01024	Ethics in Research	Theory	4	0	0	0	4							Theory + Internal
25	Nursing	Odd	MGEC01025	Paediatric First Aid Skills	Theory	4	0	0	0	4							Theory + Internal
26	Nursing	Odd	MGEC01026	Add for Effective Teaching	Theory	4	0	0	0	4							Theory + Internal
27	Nursing	Odd	MGEC01027	Fundamental of Home-Based Care	Theory	4	0	0	0	4							Theory + Internal
28	Hotel Management	Odd	MGEC01028	Food Production Foundation	Theory	4	0	0	0	4							Theory + Internal
29	Hotel Management	Odd	MGEC01029	Food and Beverage Service Management	Theory	4	0	0	0	4							Theory + Internal
30	Hotel Management	Odd	MGEC01030	Basic Bakery & Patisserie	Theory	4	0	0	0	4							Theory + Internal
31	Hotel Management	Odd	MGEC01031	Bar Management	Theory	4	0	0	0	4							Theory + Internal
32	Hotel Management	Odd	MGEC01032	Culinary Management	Theory	4	0	0	0	4							Theory + Internal
33	Management	Odd	MGEC01033	Customer Relationship Management	Theory	4	0	0	0	4							Theory + Internal
34	Management	Odd	MGEC01034	Management Concepts	Theory	4	0	0	0	4							Theory + Internal
35	Management	Odd	MGEC01035	Business Ethics	Theory	4	0	0	0	4							Theory + Internal
36	Management	Odd	MGEC01036	Sales and Distribution Management	Theory	4	0	0	0	4							Theory + Internal
37	Management	Odd	MGEC01037	Tax Law and Planning	Theory	4	0	0	0	4							Theory + Internal
38	Management	Odd	MGEC01038	Basics of Entrepreneurship Skills	Theory	4	0	0	0	4							Theory + Internal
39	Management	Odd	MGEC01039	Medical Terminology and Medical Record Management	Theory	4	0	0	0	4							Theory + Internal
40	Management	Odd	MGEC01040	Health Economics	Theory	4	0	0	0	4							Theory + Internal
41	Management	Odd	MGEC01041	Business Law	Theory	4	0	0	0	4							Theory + Internal

Master of Computer Application

Semester 1st

S. No.	Subject Code	Subject Name	L	T	P	C	Internal	External	Total
1		Problem Solving and Programming with C++(OOPS)	3	0	0	3	40	60	100
2		Software Testing	3	0	0	3	40	60	100
3		Advanced Database Management System	3	0	0	3	40	60	100
4		Department Electives-1	3	0	0	3	40	60	100
5		Networking technologies	3	0	0	3	40	60	100
6		Problem Solving and Programming with C++(OOPS) Lab	0	0	2	1	60	40	100
7		Software Testing Lab	0	0	2	1	60	40	100
8		Networking technologies Lab	0	0	2	1	60	40	100
9		Advanced DataBase Management System Lab	0	0	2	1	60	40	100
10		Department Electives-1 Lab	0	0	2	1	60	40	100
11		Value Addition Course-I	2	0	0	2	40	60	100
		Total	17	0	10	22			

Registrar
SGT University
Budhera, Gurugram

Master of Computer Application

Semester 2nd

S. No.	Subject Code	Subject Name	L	T	P	C	Internal	External	Total
1		Computer Organization & Architecture	3	0	0	3	40	60	100
2		Advanced JAVA	3	0	0	3	40	60	100
3		OE-I	4	0	0	4	40	60	100
4		Medical image processing	3	0	0	3	40	60	100
5		Advanced Operating System	3	0	0	3	40	60	100
6		Data Structures & Algorithm Design	3	0	0	3	40	60	100
7		Advanced Operating System Lab	0	0	2	1	60	40	100
8		Advanced JAVA Lab	0	0	2	1	60	40	100
9		Data Structures & Algorithm Design Lab	0	0	2	1	60	40	100
		Total	19	0	6	22			

Registrar
SGT University
Budhera, Gurugram

Master of Computer Application

Semester 3rd

S. No.	Subject Code	Subject Name	L	T	P	C	Internal	External	Total
1		Programming in Python	2	0	0	2	40	60	100
2		Research Methodology	3	0	0	3	40	60	100
3		Department Electives-II	3	0	0	3	40	60	100
4		OE-II	4	0	0	4	40	60	100
5		Mobile App Development	3	0	0	3	40	60	100
6		Programming in Python Lab	0	0	4	2	60	40	100
7		Department Electives-II Lab	0	0	2	1	60	40	100
8		Mobile App Development Lab	0	0	2	1	60	40	100
9		Value Addition Course-II	2	0	0	2	40	60	100
		Total	17	0	8	21			

Registrar
SGT University
Budhera, Gurugram

Master of Computer Application

Semester 4th(A)

S. No.	Subject Code	Subject Name	L	T	P	C	Internal	External	Total
1		Department Electives-III	3	0	0	3	40	60	100
2		Embedded systems in Medicine	3	0	0	3	40	60	100
3		Department Electives-III Lab	0	0	2	1	60	40	100
4		Dissertation	0	0	4	2	100	100	200
		Total	6	0	8	10			

Master of Computer Application

Semester 4th(B)

S. No.	Subject Code	Subject Name	L	T	P	C	Internal	External	Total
1		Internship	0	0	0	10	100	100	200
		Total	0	0	0	10			

Registrar
SGT University
Budheta, Gurugram