

AARIHANT INSTITUTE OF NURSING

COURSE OF INSTRUCTION

S. No	Subject	Theory hrs (Class and Lab)	Practical hrs (Clinical)	Total Hours
First Year				
1.	English	60		60
2.	Anatomy	60		60
3.	Physiology	60		60
4.	Nutrition	40+20		60
5.	Biochemistry	30		30
6.	Nursing Foundations	265 + 200	450	915
7.	Psychology	60		60
8.	Microbiology	45+15		60
9.	Introduction to computers	15 + 30		45
10.	Regional Language	30		30
10.	Library Work /Self Study	50		50
11.	Co-curricular activities	50		50
Total Hours		1030	450	1480
Second Year				
1.	Sociology	60		60
2.	Pharmacology	45		45
3.	Pathology	30		30
4.	Genetics	15		15
5.	Medical-Surgical Nursing (Adult including Geriatrics)-I	210	720	930
6.	Community Health Nursing-I	90	135	225
7.	Communication and Educational Technology	60 + 30		90
8.	Library Work / Self Study	50		50
9.	Co-curricular activities	35		35
Total Hours		625	855	1480
Third Year				
1.	Medical Surgical Nursing - II(Adult including Geriatrics)	120	460	580
2.	Child Health Nursing	90	270	360
3.	Mental Health Nursing	90	270	360
4.	Nursing Research & Statistics	45	*	45
5.	Library Work / Self Study	50		50
6.	Co-curricular activities	50		50
Total Hours		445	1000	1445
Fourth Year				
1.	Midwifery and Obstetrical Nursing	90	180	270
2.	Community Health Nursing – II Including the concept of Middle Level Health Provider (MLHP)	90	135	225

Pr. Ghosh
Pr. Ghosh
Pr. Ghosh



Madhumati

Principal
Aarihant Institute of Nursing
Bhoyan Rathod, Gandhinagar.

3.	Management of Nursing Services and Education	60+30	-	90
	Total Hours	225	315	540

**Project to be carried out during internship*

Note: Hours of course instruction can be planned at the institutional level.

P.R. Gokhale

Shrey

Jayesh

Muthu



Mudhumalli

[Signature]
Principal

Aarihant Institute of Nursing
Rhojan Rathod, Gandhinagar.

Integrated Nursing Training (INTERNSHIP)

S. No	Subject	In weeks	Practical (In hrs)
1.	Midwifery and Obstetrical Nursing	9	432
2.	Community Health Nursing – II	4	192
3.	Medical Surgical Nursing (Adult and Geriatric)	5	240
4.	Child Health Nursing	3	144
5.	Mental Health Nursing	2	96
6.	Research Project*	1	45
Total		24	1149
Total Hours = 1149 + 585 = 1734			

**project work to be carried out during internship*

Note:

- Internship means 8 hours of integrated clinical duties in which 2 weeks of evening and night shift duties are included.
- Internship should be carried out as 8 hours per day @ 48 hours per week.
- Students during internship will be supervised by nursing teachers.
- Students will be eligible to appear in the fourth year final examination only after completion of Internship (24 weeks).
- On Completion of Internship Internal Assessment out of 100 marks should be sent to the University for inclusion in the mark list

P.R. Ghoghar.

[Signature]

[Signature]

[Signature]



[Signature]

[Signature]

Aarihan Institute of Nursing
Bhayan Rathod, Gandhinagar

SUBJECT AND TEACHING SCHEDULE

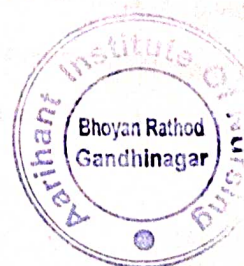
COURSE OF STUDY

S.NO	SUBJECT	HOURS THEORY	HOURS PRACTICAL
	1 Year		
1	Nursing Foundation	45	-
2	Nutrition & dietetics	30	15
3	Biochemistry & Biophysics	60	-
4	Psychology	60	15
5	Maternal Nursing	60	240
6	Child Health Nursing	60	240
7	Microbiology	60	30
8	Medical & Surgical Nursing	90	270
9	English (Qualifying)	60	-
	Total	525	810
Note: Hindi /Local Language as per the need of institution			
	2nd Year		
10	Sociology	60	-
11	Community Health Nursing	60	240
12	Mental Health Nursing	60	240
13	Introduction to Nursing Education	60	75
14	Introduction to Nursing Administration	60	180
15	Introduction to Nursing Research & Statistics	45	120
16.	Environmental Science	50	-
	Total	395	855

Principal
Aarohant Institute of Nursing
Bhojan Rathod, Gandhinagar

Principal
Vishnu
madhumala

Principal
Laxmishyam



Principal

SCHEME OF EXAMINATION

Paper	Subject	Duration	Int. Asst	Ext. Asst	Total Marks
Theory	1st Year				
1	Nursing Foundation				
2	Nutrition & Dietetics	2	15	35	50
3	Biochemistry & Biophysics	2	15	35	50
4	Psychology	3	25	75	100
5	Maternal Nursing	3	25	75	100
6	Child Health Nursing	3	25	75	100
7	Microbiology	3	25	75	100
8	Medical & Surgical Nursing	3	25	75	100
9	English (Qualifying)*	3	25	75	100
	Practical				
1	Medical & Surgical Nursing		50	50	100
2	Maternal Nursing		50	50	100
3	Child Health Nursing		50	50	100
	2nd Year				
10	Sociology	3	25	75	100
11	Community Health Nursing	3	25	75	100
12	Mental Health Nursing	3	25	75	100
13	Introduction To Nursing Education	3	25	75	100
14	Introduction To Nursing Administration	3	25	75	100
15	Introduction To Nursing Research & Statistics**	2	50	50	100
16.	Environmental science**	2	25	75	100
Practical					
1	Community Health Nursing	3	50	50	100
2	Mental Health Nursing	3	50	50	100

Note: * Qualifying Examination

** College Examination (not University Examination)

N.B:

- Teaching of Anatomy, Physiology, Pharmacology and Pathology will be integrated with clinical subjects
- A minimum of 80% Attendance in theory and Practical in each subject is essential for appearing in the examination.
- 100% attendance in practical in each clinical area is essential before award of degree.
- 50% of minimum marks in each theory and practical paper separately is required for passing.
- A candidate has to secure minimum of 33% in qualifying subject for passing.

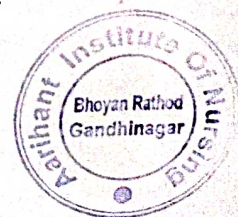
[Signature]

[Signature]

Principal
Aarohant Institute of Nursing
Bhoyan Rathod, Gandhinagar.

[Signature]
Lalghani

[Signature]
Madhumati



School of Computer Application
Bachelor of Computer Application (B.C.A.)

Semester 1 (BCA)											
Sr. No.	Subject Name	Credit	Teaching scheme per week				Examination				Total
			Th	Tut	Practical	Total	Internal		External		
							Th	Pr	Th	Pr	
13030101	Introduction to Computer and Emerging Technologies	3	2	0	2	4	30	50	70	-	150
13030102	Logic Development and Programming - I	5	3	0	4	7	30	50	70	-	150
13030103	Internet Web Designing - I	5	3	0	4	7	30	50	70	-	150
13030104	Discret Mathamatics	4	3	2	0	5	30	50	70	-	150
13030105	Communication Skills	2	2	0	0	2	30	-	70	-	100
23000007	Introduction to Enterpreniurship	2.5	2	1	0	3	20	30	20	30	100
	Total	21.5	15	3	10	28	170	230	370	30	800

Semester 2 (BCA)											
Sr. No.	Subject Name	Credit	Teaching scheme per week				Examination				Total
			Th	Tut	Practical	Total	Internal		External		
							Th	Pr	Th	Pr	
13030201	Statistical Method and Operation Research	4	3	2	0	5	30	50	70	-	150
13030202	Logic Development and Programming - II	4	3	0	2	5	30	50	70	-	150
13030203	Database Management System	5	3	0	4	7	30	50	70	-	150
13030204	Internet Web Designing - II	4	3	0	2	5	30	50	70	-	150
13030205	Digital Electronics	4	3	0	2	5	30	50	70	-	150
23000013	Introduction to Innovation & Ideation	2.5	2	1	0	3	20	30	20	30	100
	Total	23.5	17	3	10	30	170	280	370	30	850

Semester 3 (BCA)											
Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total
			Th	Tut	Practical	Total	Internal		External		
							Th	Pr	Th	Pr	
13030301	Data and File Structure	4	3	0	2	5	30	50	70	-	150
13030302	Relational Data Base Management System	4	3	0	2	5	30	50	70	-	150
13030303	Operating System	4	3	0	2	5	30	50	70	-	150
13030304	Object Oriented Programming - I	5	3	0	4	7	30	50	70	-	150
13030305	Software Engineering	4	3	0	2	5	30	50	70	-	150
23000014	Entrepreneural Motivation	2.5	2	1	0	3	20	30	20	30	100
	Total	23.5	17	1	12	30	170	280	370	30	850

Tamil Selva

Neel

Semester 4 (BCA)											
Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total
			Th	Tut	Practical	Total	Internal		External		
							Th	Pr	Th	Pr	
13030401	Object Oriented Programming - II	6	4	0	4	8	30	50	70	-	150
13030402	Open Source Technology	4	3	0	2	5	30	50	70	-	150
13030403	Object Oriented Web Technology	4	3	0	2	5	30	50	70	-	150
13030404	Data Communication and Network	4	3	0	2	5	30	50	70	-	150
13030405	Data Center Management	4	3	0	2	5	30	50	70	-	150
23000017	Project Feasibility & Marketing Skills	2.5	2	1	0	3	20	30	20	30	100
	Total	24.5	18	1	12	31	170	280	370	30	850

Semester 5 (BCA)											
Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total
			Th	Tut	Practical	Total	Internal		External		
							Th	Pr	Th	Pr	
13030501	Object Oriented Programming - III	4	3	0	2	5	30	-	70	50	150
13030502	Object Oriented Analysis and Desgin	5	4	0	2	6	30	-	70	50	150
	Elective - I	4	3	0	2	5	30	-	70	50	150
13030503	Software Devlopement Project-I	10	0	0	10	10	-	50	-	100	150
23000020	Scaling up the Venture (Family Business)	2.5	2	1	-	3	20	30	20	30	100
	Total	25.5	12	1	16	29	110	80	230	280	700

Subject Code	Elective I
13030504	Android Programming
13030505	Business Data Analytics
13030506	Advance Networking

Semester 6 (BCA)											
Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total
			Th	Tut	Practical	Total	Internal		External		
							Th	Pr	Th	Pr	
13030601	Cyber Security	4	3	0	2	5	30	-	70	50	150
13030602	Cloud Computing	4	3	0	2	5	30	-	70	50	150
	Elective - II	4	3	0	2	5	30	-	70	50	150
13030603	Software Development Project-II	12	0	0	12	12	-	100	-	200	300
23000021	Idea to MVP	2.5	2	1	-	3	20	30	20	30	100
	Total	26.5	11	1	18	30	110	130	230	380	850

Subject Code	Elective II
13030604	iOS Programming
13030605	Data Warehousing and Data Mining
13030606	Wireless Sensor Network

Handwritten signatures and marks:

Handwritten signature: "Ravi Shukla"

Handwritten signature: "Ravi Shukla"

SWARNIM SCHOOL OF BUSINESS
Master Of Computer Applications(MCA)

SEMESTER-I

Subject Code	Subject Name	Teaching Scheme			Credits	Theory		Practical/ VIVA		Total Marks	
		Theory	Tutorial	Practical		University Exam	Mid-Term Exam(PA)	Mid-Term Practical(VI) (PA)	External/Practical VIVA	Theory	Practical /VIVA
16110101	Basic Mathematics	3	-	3	6	70	30	20	30	100	30
16110102	Basic Computer Science-1	3	-	3	6	30	30	20	30	100	30
16110103	Basic Computer Science-2	3	-	3	6	70	30	20	30	100	30
	Elective-1	3	-	3	6	70	30	20	30	100	30
	Elective-2	3	-	3	6	70	30	20	30	100	30
	Total	15	-	15	30	350	150	100	150	600	250

Elective-1

16110104	Programming with C++
16110105	Programming with Java
16110106	Programming with Python
16110107	Dynamic HTML
16110108	Database Administration

Elective- II

16110009	Procedure Programming
16110010	Programming with
16110011	Data Warehousing
16110012	Information Security

SEMESTER-2

Subject Code	Subject Name	Teaching Scheme			Credits	Theory		Practical/ VIVA		Total Marks	
		Theory	Tutorial	Practical		University Exam (SE)	Mid-Term Exam(PA)	Mid-Term Practical(VI) (PA)	External/Practical VIVA	Theory	Practical /VIVA
16110201	Basic Statistics	3	-	4	7	70	30	20	30	100	30
16110202	Basic Computer Science-3	3	-	3	6	30	30	20	30	100	30
16110203	Basic Computer Science-4	4	1	-	5	70	30	-	-	100	-
	Elective-3	3	-	3	6	70	30	20	30	100	30
	Elective-4	3	-	3	6	70	30	20	30	100	30
	Total	16	1	15	34	350	150	80	120	600	280

Elective- III

16110204	Network Security
16110205	Data Analysis with R
16110206	Data Mining
16110207	Image Processing
16110208	Operations Research

Elective- IV

16110209	Cyber Security & Forensics
16110210	Language Processing
16110211	Blockchain
16110212	Advanced Python
16110213	Android Programming

SEMESTER-3

Subject Code	Subject Name	Teaching Scheme			Credits	Theory		Practical / VIVA		Total Marks	
		Theory	Tutorial	Practical		University Exam	Mid-Term Exam (PA)	Mid-Term Practical / Viva (PA)	External Practical / Viva	Theory	Practical / VIVA
161103B1	Design & Analysis of Algorithms	4	-	3	7	70	30	20	30	100	50
161104M2	Artificial Intelligence	4	-	3	7	70	30	20	30	100	50
161104O3	Digital Technology Trends	0	4	-	4	-	-	20	80	-	100
	Elective-5	1	-	3	4	70	30	20	30	100	50
	Elective-6	1	-	3	4	70	30	20	30	100	50
	Total	14	4	12	30	340	120	100	200	400	200

Elective-5

16110304	Big Data Analytics
16110305	Java Web Technologies
16110306	Web Content Management
16110307	Search Engine Techniques
16110308	Web Data Management
16110309	Advanced Networking

Elective-6

16110310	Big Data Tools
16110311	Software Quality and
16110312	Cloud Computing
16110313	Information Retrieving
16110314	Machine Learning
16110315	Data Visualization
16110316	Wireless Communication

SEMESTER-4

		SEMESTER V				UNIVERSITY EXAMINATION				INTERNAL	
SOURCE CODE	SUBJECT	TEACHING SCHEME (HOURS)			CREDITS	EXPLANATION OF CODE		DOCUMENTATION		INTERNAL	
		THEORY	TUTORIAL	PRACTICAL							
14130001	Project	0	0	10	30	200	100	100	100	200	100

External Evaluation Scheme University Semester Examination Pass marks is 50%.

School of Computer Application
Bachelor of Science - Information Technology

Semester 1 (BSC.IT)												
Sr. No.	Subject Name	Credit	Teaching scheme per week				Examination				Total	
			Th	Tut	Practical	Total	Internal		External			
							Th	Pr	Th	Pr		
1	TECHNICAL COMMUNICATION SKILL	2	2	0	0	2	30	0	70	-	100	
2	Discrete Mathematics	4	3	2	0	5	30	50	70	-	150	
3	Networking & internet environment	2	3	0	2	5	30	50	70	-	150	
4	Computer fundamentals and emerging technology	3	2	0	2	4	30	50	70	-	150	
5	Problem solving methodologies and programming in c	7	3	0	4	7	30	50	70	-	150	
6	Introduction to Enterpreniurship	3	2	1	0	3	20	30	20	30	100	
	Total	21	15	3	8	26	170	230	370	30	800	

Semester 2 (BSC.IT)											
Sr. No.	Subject Name	Credit	Teaching scheme per week				Examination				Total
			Th	Tut	Practical	Total	Internal		External		
							Th	Pr	Th	Pr	
1	DATA STRUCTURE USING C LANGUAGE	4	3	0	2	5	30	50	70	-	150
2	WEB PROGRAMMING	4	3	0	2	5	30	50	70	-	150
3	COMPUTER ORGANIZATION AND ARCHITECTURE	4	3	2	0	5	30	50	70	-	150
4	MATHAMATICAL AND STATASTICALS FOUNDATION OF COMPUTER SCIENCE	5	3	2	0	5	30	50	70	-	150
5	INTRODUCTION TO INNOVATION AND IDEATION	3	2	1	0	3	20	30	30	20	100
	Total	20	14	5	4	23	140	230	310	20	700

Ankit Koitiya
 ANKIT KOITIYA
 HOD- SSCIT



Swarnnim Startup and Innovation University
Aarihant Ayurvedic Medical College and Research Institute, Gandhinagar
Teaching Scheme as proposed by CCIM/ NCISM

BAMS 3rd Professional

Sr. no.	Subject name	Papers	Theory marks	Practical marks	Total	Teaching hours
1.	Agadtantra Vyavhar Ayurved evam Vidhivaidyak	1	100	50	150	200+100
2.	Swasthavritta	2	200 (100 each)	100	300	200+100
3.	Prasutitantra & Strirog	2	200 (100 each)	100	300	200+100
4.	Balrog	1	100	50	150	200+100
5.	Charak Uttarardh	1	100	-	100	200



Principal
Aarihant Ayurvedic Medical
College and Research Institute





BACHELOR OF HOMOEOPATHIC MEDICINE & SURGERY
[B.H.M.S.]

PROGRAMME CODE- 7

2021-22 / TEACHING SCHEME

IVTH BHMS PROGRAMME [CCH]

NAME OF COURSE	THEORY HOURS	PRACTICAL/CLINICAL HOURS
PRACTICE OF MEDICINE	180	100
HOMOEOPATHIC REPERTORY	100	100
COMMUNITY MEDICINE	100	100
HOMOEOPATHIC MATERIA MEDICA	180	100
ORGANON OF MEDICINE	180	100


Principal



Swarnim Startup & Innovation University

SWARNIM SCIENCE COLLEGE

Master of Science (M.Sc.) MATHEMATICS

Masters- Teaching syllabus & examination pattern

Semester 3

Sr. No.	Subject Code	Subject Name	Credit	Teaching scheme per week				Examination								Total
				Th	Tut	Practical	Total	Internal				External				
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING	
1	256050301	Functional Analysis	4	4	-	-	4	30	12	-	-	70	25	-	-	100
2	256050302	Mathematical Modeling	4	4	-	-	4	30	12	-	-	70	25	-	-	100
3	256050303	Partial Differential Equation	4	4	-	-	4	30	12	-	-	70	25	-	-	100
4	256050304	Topology-1	4	4	-	-	4	30	12	-	-	70	25	-	-	100
5	256050305	Practical	8	-	-	12	12	-	-	200	80	-	-	-	-	200
		Total	24	16	-	12	28	120	-	200	-	280	-	-	-	600

Semester 4

Sr. No.	Subject Code	Subject Name	Credit	Teaching scheme per week				Examination								Total
				Th	Tut	Practical	Total	Internal				External				
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING	
1	256050401	Number Theory	4	4	-	-	4	30	12	-	-	70	25	-	-	100
2	256050402	Research Methodology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
3	256050403	Integral Transforms	4	4	-	-	4	30	12	-	-	70	25	-	-	100
4	256050404	Topology-2	4	4	-	-	4	30	12	-	-	70	25	-	-	100
5	256050405	Practical	8	-	-	12	12	-	-	200	80	-	-	-	-	200
		Total	24	16	-	12	28	120	-	200	-	280	-	-	-	600



Swarnim Startup & Innovation University

SWARRNIM SCIENCE COLLEGE

Master of Science (M.Sc.) Physics

Masters- Teaching syllabus & examination pattern

	Semester 3															
Sr. No.	Subject Code	Subject Name	Credit	Teaching scheme per week				Examination								Total
				Th	Tut	Practical	Total	Internal				External				
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING	
1	256040301	Quantum Mechanics-I and Mathematical Physics I	4	4	-	-	4	30	12	-	-	70	25	-	-	100
2	256040302	Classical Mechanics-I and Statistical Mechanics	4	4	-	-	4	30	12	-	-	70	25	-	-	100
3	256040303	Electrodynamics-I and Programming in C-I	4	4	-	-	4	30	12	-	-	70	25	-	-	100
4	256040304	Solid State Physics and Plasma Physics	4	4	-	-	4	30	12	-	-	70	25	-	-	100
5	256040305	Practicals	8	-	-	12	12	-	-	200	80	-	-	-	-	200
		Total	24	16	-	12	28	120	-	200	-	280	-	-	-	600

Semester 4																
Sr. No.	Subject Code	Subject Name	Credit	Teaching scheme per week				Examination								Total
				Th	Tut	Practical	Total	Internal				External				
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING	
1	256040401	Advanced Quantam Mwchanics-II & Nuclear Physics-II	4	4	-	-	4	30	12	-	-	70	25	-	-	100
2	256040402	Numerical Techniques & Sophisticated Experimental And Characterization Techniques	4	4	-	-	4	30	12	-	-	70	25	-	-	100
3	256040403	Microwave and Microprocessor-II	4	4	-	-	4	30	12	-	-	70	25	-	-	100
4	256040404	Remote sensing & Electronic communications-II	4	4	-	-	4	30	12	-	-	70	25	-	-	100
5	256040405	Practicals	8	-	-	12	12	-	-	200	80	-	-	-	-	200
		Total	24	16	-	12	28	120	-	200	-	280	-	-	-	600



Swarnim Startup & Innovation University

SWARRNIM SCIENCE COLLEGE

Master of Science (M.Sc.) Microbiology

Masters- Teaching scheme, syllabus & examination pattern

Semester 3																
Sr. No.	Subject Code	Subject Name	Credit	Teaching scheme per week				Examination								Total
				Th	Tut	Practical	Total	Internal				External				
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING	
1	256030301	Microbial Biotechnology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
2	256030302	Enzymology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
3	256030303	Food & Dairy Microbiology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
4	256030304	Agriculture Microbiology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
5	256030305	Practicals	8	-	-	12	12	-	-	200	80	-	-	-	-	200
		Total	24	16	-	12	28	120	-	200	-	280	-	-	-	600

Semester 4																
Sr. No.	Subject Code	Subject Name	Credit	Teaching scheme per week				Examination								Total
				Th	Tut	Practical	Total	Internal				External				
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING	
1	256030401	Environmental Microbiology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
2	256030402	r-DNA Technology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
3	256030403	Practicals	4	-	-	6	6	-	-	100	40	-	-	-	-	100
4	256030404	Dissertation	12	-	-	12	12	-	-	300	120	-	-	-	-	300
		Total	24	8	-	18	26	60	-	400	-	140	-	-	-	600



Swarnim Startup & Innovation University

SWARRNIM SCIENCE COLLEGE

Master of Science (M.Sc.) Biotechnology

Masters- Teaching syllabus & examination pattern

Semester 3

Sr. No.	Subject Code	Subject Name	Credit	Teaching scheme per week				Examination								Total
				Th	Tut	Practical	Total	Internal				External				
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING	
1	256010301	Microbial Biotechnology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
2	256010302	Enzymology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
3	256010303	r-DNA Technology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
4	256010304	Animal Tissue culture & pharmaceutical Biotechnology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
5	256010305	Practicals	8	-	-	12	12	-	-	200	80	-	-	-	-	200
		Total	24	16	-	12	28	120	-	200	-	280	-	-	-	600

Semester 4

SEMESTER 4																
Sr. No.	Subject Code	Subject Name	Credit	Teaching scheme per week				Examination								Total
				Th	Tut	Practical	Total	Internal				External				
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING	
1	256010401	Plant Biotechnology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
2	256010402	Environmental Biotechnology	4	4	-	-	4	30	12	-	-	70	25	-	-	100
3	256010403	Practicals	4	-	-	6	6	-	-	100	40	-	-	-	-	100
4	256010404	Dissertation	12	-	-	12	12	-	-	300	120	-	-	-	-	300
		Total	24	8	-	18	26	60	-	400	-	140	-	-	-	600



Swarnim Startup & Innovation University

SWARRNIM SCIENCE COLLEGE

Master of Science (M.Sc.) Chemistry

Masters- Teaching syllabus & examination pattern

Semester 3																
Sr. No.	Subject Code	Subject Name	Credit	Teaching scheme per week				Examination								Total
				Th	Tut	Practical	Total	Internal				External				
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING	
1	256020301	Natural Products & Biomolecules	4	4	-	-	4	30	12	-	-	70	25	-	-	100
2	56020302	Medicinal Chemistry	4	4	-	-	4	30	12	-	-	70	25	-	-	100
3	256020303	Organic Spectroscopy	4	4	-	-	4	30	12	-	-	70	25	-	-	100
4	256020304	Industrial Chemistry	4	4	-	-	4	30	12	-	-	70	25	-	-	100
5	256020305	Practicals	8	-	-	12	12	-	-	200	80	-	-	-	-	200
		Total	24	16	-	12	28	120	-	200	-	280	-	-	-	600

Semester 4																
Sr. No.	Subject Code	Subject Name	Credit	Teaching scheme per week				Examination								Total
				Th	Tut	Practical	Total	Internal				External				
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING	
1	256020401	Advanced Organic Chemistry	4	4	-	-	4	30	12	-	-	70	25	-	-	100
2	256020402	Advanced Organic Synthesis	4	4	-	-	4	30	12	-	-	70	25	-	-	100
3	256020403	Bio-Organic Chemistry	4	4	-	-	4	30	12	-	-	70	25	-	-	100
4	256020404	Selected Topics in Medicinal Chemistry	4	4	-	-	4	30	12	-	-	70	25	-	-	100
5	256020405	Dissertation/Practicals	8	-	-	12	12	-	-	200	80	-	-	-	-	200
		Total	24	16	-	-	28	120	-	200	-	280	-	-	-	600



SWARNIM STARTUP & INNOVATION UNIVERSITY

SWARNIM SCIENCE COLLEGE

B.SC BIOTECHNOLOGY

Teaching scheme & examination pattern

3rd Semester

Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total Marks	Remark
			Th	Tut	Pr	Total	Internal		External			
							Th	Pr	Th	Pr		
253010301	Cellular Biology	3	3	-	-	3	30	-	70	-	100	Passing in each Component is not compulsory
253010302	Molecular Biology-I	3	3	-	-	3	30	-	70	-	100	
253010303	Biotechnology Practicals	4	-	-	6	6	-	100	-	-	100	
253040301	Microbial Physiology	3	3	-	-	3	30	-	70	-	100	
253040302	Soil & Water Microbiology	3	3	-	-	3	30	-	70	-	100	
253040303	Microbiology Practicals	4	-	6	-	6	-	100	-	-	100	
253000302	Communication Skills - 1	2	2	-	-	2	30	-	70	-	100	
12300011	Intellectual Property Rights	3	3	-	-	3	50	-	50	-	100	
		25	17	6	6	29	200	200	400	-	800	

4th Semester

Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total Marks	Remark
			Th	Tut	Pr	Total	Internal		External			
							Th	Pr	Th	Pr		
253010301	Immunology-I	3	3	-	-	3	30	-	70	-	100	Passing in each Component is not compulsory
253010302	Bioinstrumentation	3	3	-	-	3	30	-	70	-	100	
253010303	Biotechnology Practicals	4	-	-	6	6	-	100	-	-	100	
253040301	Bacterial Diversity	3	3	-	-	3	30	-	70	-	100	
253040302	Food & Dairy Microbiology	3	3	-	-	3	30	-	70	-	100	
253040303	Microbiology Practicals	4	-	6	-	6	-	100	-	-	100	
253000402	Communication Skills - 2	2	2	-	-	2	30	-	70	-	100	
12300012	Intermediate Program in Entrepreneurship	3	3	-	-	3	50	-	50	-	100	
		25	17	6	6	29	200	200	400	-	800	



SWARNIM STARTUP & INNOVATION UNIVERSITY

SWARNIM SCIENCE COLLEGE

B.SC MICROBIOLOGY

Teaching scheme & examination pattern

3rd Semester

Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total Marks	Remark
			Th	Tut	Pr	Total	Internal		External			
							Th	Pr	Th	Pr		
253040301	Microbial Physiology	3	3	-	-	3	30	-	70	-	100	Passing in each Component is not compulsory
253040302	Soil & Water Microbiology	3	3	-	-	3	30	-	70	-	100	
253040303	Microbiology Practicals	4	-	-	6	6	-	100	-	-	100	
253010301	Cellular Biology	3	3	-	-	3	30	-	70	-	100	
253010302	Molecular Biology-1	3	3	-	-	3	30	-	70	-	100	
253010303	Biotechnology Practicals	4	-	6	-	6	-	100	-	-	100	
253000302	Communication Skills - 1	2	2	-	-	2	30	-	70	-	100	
12300011	Intellectual Property Rights	3	3	-	-	3	50	-	50	-	100	
		25	17	6	6	29	200	200	400	-	800	

4th Semester

Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total Marks	Remark
			Th	Tut	Pr	Total	Internal		External			
							Th	Pr	Th	Pr		
253040401	Bacterial Diversity	3	3	-	-	3	30	-	70	-	100	Passing in each Component is not compulsory
253040402	Food & Dairy Microbiology	3	3	-	-	3	30	-	70	-	100	
253040403	Microbiology Practials	4	-	-	6	6	-	100	-	-	100	
253010401	Immunology-I	3	3	-	-	3	30	-	70	-	100	
253010402	Bioinstrumentation	3	3	-	-	3	30	-	70	-	100	
253010403	Biotechnology Practicals	4	-	6	-	6	-	100	-	-	100	
253000402	Communication Skills - 2	2	2	-	-	2	30	-	70	-	100	
12300012	Intermediate Program in Entrepreneurship	3	3	-	-	3	50	-	50	-	100	
		25	17	6	6	29	200	200	400	-	800	



SWARNIM STARTUP & INNOVATION UNIVERSITY
SWARNIM SCIENCE COLLEGE

B.SC CHEMISTRY

Teaching scheme & examination pattern

3rd Semester

Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total Marks	Remark
			Th	Tut	Pr	Total	Internal		External			
							Th	Pr	Th	Pr		
253020301	Fundamentals of Organic Chemistry	3	3	-	-	3	30	-	70	-	100	Passing in each Component is not compulsory
253020302	Fundamentals of Analytical Chemistry	3	3	-	-	3	30	-	70	-	100	
253020303	Chemistry Practicals	4	-	-	6	6	-	100	-	-	100	
253050301/253040301	Physics-301/Microbial Physiology	3	3	-	-	3	30	-	70	-	100	
253050302/253040302	Physics-302/Soil & Water Microbiology	3	3	-	-	3	30	-	70	-	100	
253050303/253040303	Physics Practicals/Microbiology Practicals	4	-	6	-	6	-	100	-	-	100	
253000302	Communication Skills - 1	2	2	-	-	2	30	-	70	-	100	
12300011	Intellectual Property Rights	3	3	-	-	3	50	-	50	-	100	
		25	17	6	6	29	200	200	400	-	800	

4th Semester

Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total Marks	Remark
			Th	Tut	Pr	Total	Internal		External			
							Th	Pr	Th	Pr		
253020401	Fundamentals of Inorganic Chemistry	3	3	-	-	3	30	-	70	-	100	Passing in each Component is not compulsory
253020402	Fundamentals of Physical Chemistry	3	3	-	-	3	30	-	70	-	100	
253020403	Chemistry Practicals	4	-	-	6	6	-	100	-	-	100	
253050401/253040401	Physics-401/Bacterial Diversity	3	3	-	-	3	30	-	70	-	100	
253050402/253040402	Physics-402/Food & Dairy Microbiology	3	3	-	-	3	30	-	70	-	100	
253050403/253040403	Physics Practicals/Microbiology Practicals	4	-	6	-	6	-	100	-	-	100	
253000402	Communication Skills - 2	2	2	-	-	2	30	-	70	-	100	
12300012	Intermediate Program in Entrepreneurship	3	3	-	-	3	50	-	50	-	100	
		25	17	6	6	29	200	200	400	-	800	



SWARNIM STARTUP & INNOVATION UNIVERSITY
SWARNIM SCIENCE COLLEGE

B.SC MATHEMATICS

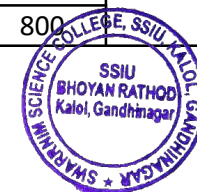
Teaching scheme & examination pattern

3rd Semester

Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total Marks	Remark
			Th	Tut	Pr	Total	Internal		External			
							Th	Pr	Th	Pr		
253030301	Linear Algebra	3	3	-	-	3	30	-	70	-	100	Passing in each Component is not compulsory
253030302	Numerical Analysis	3	3	-	-	3	30	-	70	-	100	
253030303	Mathematics Practicals	4	-	6	-	6	-	100	-	-	100	
253050301	Physics-301	3	3	-	-	3	30	-	70	-	100	
253050302	Physics-302	3	3	-	-	3	30	-	70	-	100	
253050303	Physics Practicals	4	-	-	6	6	-	100	-	-	100	
253000302	Communication Skills - 1	2	2	-	-	2	30	-	70	-	100	
12300011	Intellectual Property Rights	3	3	-	-	3	50	-	50	-	100	
		25	17	6	6	29	200	200	400	-	800	

4th Semester

Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total Marks	Remark
			Th	Tut	Pr	Total	Internal		External			
							Th	Pr	Th	Pr		
253030401	Advanced Calculus	3	3	-	-	3	30	-	70	-	100	Passing in each Component is not compulsory
253030402	Algebra and Statistical Mathematics	3	3	-	-	3	30	-	70	-	100	
253030403	Mathematics Practicals	4	-	6	-	6	-	100	-	-	100	
253050401	Physics-401	3	3	-	-	3	30	-	70	-	100	
253050402	Physics-402	3	3	-	-	3	30	-	70	-	100	
253050403	Physics Practicals	4	-	-	6	6	-	100	-	-	100	
253000402	Communication Skills - 2	2	2	-	-	2	30	-	70	-	100	
12300012	Intermediate Program in Entrepreneurship	3	3	-	-	3	50	-	50	-	100	
		25	17	6	6	29	200	200	400	-	800	



SWARNIM STARTUP & INNOVATION UNIVERSITY

SWARNIM SCIENCE COLLEGE

B.SC PHYSICS

Teaching scheme & examination pattern

3rd Semester

Ira Semester												
Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total Marks	Remark
			Th	Tut	Pr	Total	Internal		External			
							Th	Pr	Th	Pr		
253050301	Physics-301	3	3	-	-	3	30	-	70	-	100	Passing in each Component is not compulsory
253050302	Physics-302	3	3	-	-	3	30	-	70	-	100	
253050303	Physics Practicals	4	-	-	6	6	-	100	-	-	100	
253030301	Linear Algebra	3	3	-	-	3	30	-	70	-	100	
253030302	Numerical Analysis	3	3	-	-	3	30	-	70	-	100	
256030303	Mathematics practicals	4	-	6	-	6	-	100	-	-	100	
253000302	Communication Skills - 1	2	2	-	-	2	30	-	70	-	100	
12300011	Intellectual Property Rights	3	3	-	-	3	50	-	50	-	100	
		25	17	6	6	29	200	200	400	-	800	

4th Semester

Subject Code	Subject Name	Credit	Teaching scheme per week				Examination				Total Marks	Remark
			Th	Tut	Pr	Total	Internal		External			
							Th	Pr	Th	Pr		
253050401	Physics-401	3	3	-	-	3	30	-	70	-	100	Passing in each Component is not compulsory
253050402	Physics-402	3	3	-	-	3	30	-	70	-	100	
253050403	Physics Practicals	4	-	-	6	6	-	100	-	-	100	
253030401	Advanced Calculus	3	3	-	-	3	30	-	70	-	100	
253030402	Algebra and Statistical Mathematics	3	3	-	-	3	30	-	70	-	100	
253030403	Mathematics Practicals	4	-	6	-	6	-	100	-	-	100	
253000402	Communication Skills - 2	2	2	-	-	2	30	-	70	-	100	
12300012	Intermediate Program in Entrepreneurship	3	3	-	-	3	50	-	50	-	100	
		25	17	6	6	29	200	200	400	-	800	



SWARNIM STARTUP & INNOVATION UNIVERSITY
SWARNIM INSTITUTE OF TECHNOLOGY
Master of Civil Engineering (Structural Engineering)
Department of CIVIL Engineering
Semester I-IV Teaching Scheme and Examination Scheme

Semester: i (Structural Engineering)																	
Subject Code	Subject Name	Category	Credit	Teaching scheme per week				Examination								Total	REMARKS
				Th	Tut	Practical	Total	Internal				External					
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING		
26080101	English for Research Paper Writing (Audit Course)	Audit-I	-	2	-	-	2	-	-	-	-	50	25	-	-	50	INDIVIDUAL PASS IN EACH COMPONENT
26080102	Research Methodology and IPR	MLC	2	1	-	2	3	-	-	20	10	-	-	80	40	100	
26080103	Advanced Structural Analysis	Core-1	4	3	-	2	5	30	15	50	25	70	35	-	-	150	
26080104	Advanced Concrete Design of Structures	Core-2	4	3	-	2	5	30	15	50	25	70	35	-	-	150	
	Elective - I	PE-I	4	3	-	2	5	30	15	50	25	70	35	-	-	150	
	Elective - II	PE-II	4	3	-	2	5	30	15	50	25	70	35	-	-	150	
Total			18	15	0	10	25	120	60	220	110	330	165	80	40	750	

Subject Code	Audit Course - I
26080101	English for Research Paper Writing
26080105	Disaster Management

Subject Code	Program Elective - I
26080106	Analytical and Numerical methods for Structural Engg.
26080107	Theory and applications of Cement Composites
26080108	Theory of structural stability ✓

Subject Code	Program Elective - II
26080109	Theory of Thin plates & shells
26080110	Advanced Solid Mechanics ✓
26080111	Structural Optimization

M.N. Patel
 Dr. M. N. Patel

SWARNIM INSTITUTE OF TECHNOLOGY

Mansi
 Prof. Mansi Rajapati

SWARNIM STARTUP & INNOVATION UNIVERSITY
SWARNIM INSTITUTE OF TECHNOLOGY
Master of Civil Engineering (Structural Engineering)
Department of CIVIL Engineering
Semester I-IV Teaching Scheme and Examination Scheme

Semester: 2 (Structural Engineering)			Semester I-IV Teaching Scheme and Examination Scheme														
Subject Code	Subject Name	Category	Credit	Teaching scheme per week				Examination								Total	REMARKS
				Th	Tut	Practical	Total	Internal				External					
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING		
26080105	Disaster Management (Audit Course)	Audit-2	-	2	-	-	2	-	-	-	-	50	25	-	-	50	INDIVIDUAL PASS IN EACH COMPONENT
26080201	Advanced Steel Design	Core-3	4	3	-	2	5	30	15	50	25	70	35	-	-	150	
26080202	Structural Dynamics	Core-4	4	3	-	2	5	30	15	50	25	70	35	-	-	150	
26080203	Structural Design Project	Core-5	2	-	-	4	4	-	-	20	10	-	-	80	40	100	
	Elective – III	PE-III	4	3	-	2	5	30	15	50	25	70	35	-	-	150	
	Elective – IV	PE-IV	4	3	-	2	5	30	15	50	25	70	35	-	-	150	
Total			18	14	0	12	26	120	60	220	110	330	165	80	40	750	

Subject Code	Audit Course - 2
26080101	English for Research Paper Writing
26080105	Disaster Management

Subject Code	Program Elective - III
26080204	Design of Formwork
26080205	Design of High rise Structures ✓
26080206	Design of Masonry Structures

Subject Code	Program Elective - IV
26080207	Structural Health Monitoring & Retrofitting of Structures ✓
26080208	Design of Bridge Structures
26080209	Soil Structure Interaction


 Dr. M. M. Patel

SWARNIM INSTITUTE OF
 TECHNOLOGY


 Prof. Mansi Prajapati

SWARNIM STARTUP & INNOVATION UNIVERSITY
SWARNIM INSTITUTE OF TECHNOLOGY
Master of Civil Engineering (Structural Engineering)
Department of CIVIL Engineering
Semester I-IV Teaching Scheme and Examination Scheme

Semester: 3 (Structural Engineering)																	
Subject Code	Subject Name	Category	Credit	Teaching scheme per week				Examination								Total	REMARKS
				Th	Tut	Practical	Total	Internal				External					
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING		
24000007	Dissertation Phase I	Dissertation	10	-	-	20	20	-	-	100	50	-	-	100	50	200	
	Open Elective	OE	3	3	-	-	3	30	15	-	-	70	35	-	-	100	
	Program Elective – V	PE-V	3	3	-	-	3	30	15	-	-	70	35	-	-	100	
Total			16	6	0	20	26	60	30	100	50	140	70	100	50	400	

Subject Code	Open Elective
26080301	Industrial Safety ✓
26080302	Operation Research
26080303	Composite Materials

Subject Code	Program Elective - V
26080304	Design of Prestressed Concrete Structures ✓
26080305	Earthquake Resistant Design of Structures
26080306	Advanced Design of foundations Systems


 Dr. M.N. Patel


 Prof. Mansi Prayapati

Semester: 4 (Structural Engineering)																	
Subject Code	Subject Name	Category	Credit	Teaching scheme per week				Examination								Total	REMARKS
				Th	Tut	Practical	Total	Internal				External					
								Th	PASSING	Pr	PASSING	Th	PASSING	Pr	PASSING		
24000008	Dissertation Phase-II	Dissertation	16	-	-	32	32	-	-	100	50	-	-	100	50	200	
Total			16	0	0	32	32	0	0	100	50	0	0	100	50	200	

SWARNIM INSTITUTE OF
TECHNOLOGY