

NAAC Grade "A" 3rd Cycle | Autonomous Status under Autonomous Category

(Since 2014) Conferred by UGC

**AQAR** Report 2023-24

Criterion II Teaching Learning and Evaluation

### 2.3 - Teaching-Learning Process

### 2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

### **Student-Centric Approach in Teaching Learning**

The institute follows a versatile assessment of learning levels of students through a common procedure aided with programme specific assessments in addition to the traditional teaching-learning methods. These procedures are dynamic in nature and are updated and innovated to assess the learning in student centric way. The methodologies adopted for enhancement of Teaching –Learning are as below:

S.No.	Metholdology	Type	S.No.	Metholdology	Type
1	Workshops	Е	11	Guest lecture	P
2	Seminars	Е	12	Peer learning groups	P
3	Virtual Lab	Е	13	MOOCs	P
4	Public Speaking	Е	14	Video Demonstration	P
5	Review web literature	Е	15	PPT	P
6	Simulation	Е	16	Google Classroom	P
7	Hackathons	Е	17	Open book test	PS
8	Field training	Е	18	Project- based learning	PS
9	Activity-based learning	Е	19	Proto-type model	PS
10	Poster presentation	P	20	Real-time case studies	PS

The above methodologies are categorized as following:

Type of Methodology	Sr.No.
Experiential	1 to 9
Participative	10 to 16
Problem Solving	17 to 20

Programme				Expe	riential							Pa	rticipati	ive			P	roblem	Solvir	ng
Trogramme	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
B.Tech (CE)	7	6	1	4	16	4	5	12	20	11	12	22	12	17	19	18	11	15	4	5
B.Tech (CSE)	32	16	17	5	5	9	26	2	15	4	29	29	23	33	32	21	14	36	19	7
B.Tech (ECE)	20	15	9	4	19	15	12	24	28	20	20	26	18	24	27	22	18	24	11	10
B.Tech (EE)	0	0	0	0	11	3	0	2	5	0	0	0	14	12	14	14	14	4	5	5
B.Tech (ME)	10	14	2	6	19	6	6	16	22	12	15	27	14	19	22	19	13	17	6	7
B.Sc Agriculture	4	10	3	0	0	0	2	38	44	14	9	0	1	53	59	49	14	12	2	10
B.Sc HMCT	17	18	15	16	7	0	0	10	18	14	17	4	0	17	28	28	19	6	10	10
BBA	35	34	2	2	19	0	0	0	33	0	35	36	33	0	36	36	36	30	0	0
BCA	9	11	6	2	15	3	9	10	19	14	18	21	17	18	21	21	14	14	2	5
B.Com (hons)	3	6	0	6	28	16	0	0	16	0	10	0	19	0	28	28	28	0	0	20
B.Sc FD	15	0	36	0	0	0	0	1	8	0	36	0	1	36	36	0	0	36	0	0
BA(J&MC)	32	32	0	4	5	1	0	32	1	0	32	32	1	32	32	32	5	1	0	5
MBA	4	14	0	7	35	13	0	2	12	1	16	0	16	0	34	31	31	2	0	33
MCA	4	6	3	1	13	2	4	12	18	12	10	18	14	16	15	16	9	12	4	4
M.Tech CSE	11	10	1	1	5	3	4	5	8	4	7	14	8	10	10	9	10	7	4	5
M.Tech CE	4	12	3	6	10	6	3	2	6	4	6	2	4	3	15	12	0	2	4	5
B. Pharmacy	16	11	6	5	24	1	0	4	2	27	28	14	2	26	34	35	0	3	0	0
BSc Medical Lab Science	7	16	4	0	17	2	0	1	4	15	17	12	0	13	17	17	0	2	0	0
Total	230	231	108	69	248	84	71	173	279	152	317	257	197	329	479	408	236	223	71	131

**B.Tech. Civil Engineering** 

Amritsar Group of Colleges Department of Civil Engineering (BTech Civil Engineering)

				_			BI	ech (	Civil	Eng	ineer	ring)								
Course				I	Expe	rien	tial					Pa	rticip	oative					blen	
	1	2	2	3 4	5	6	7	8	9	10	11	12	13	1.4	1.5	10			lving	
Strength of Materials		١	1		٧				V	V	1	V	V	14 V	15 V	16 V	17 V	18 √	19 V	2
Fluid Mechanics		V	'		٧					٧		٧	٧	٧	٧	٧	٧	٧		+
Survey-I & II	٧			V	V	V	V	V	V	V	V	V		V	V	V	-	-	+-	+
Environmental Engg-I & II		٧			٧		٧		V		٧	٧	٧	V	V	V	√ √	V	+	٧
Building Materials					٧						٧	٧	٧	٧	٧	٧	٧	-	+	+
Engineering Math-III											٧	٧	٧		٧	٧	٧		٧	
Structural Analysis		٧			٧			٧	٧	٧		٧	٧	٧	٧	٧	٧		V	
Design of concrete Structures	٧	٧						٧	V	٧		٧	٧		٧	٧		٧		
Building Construction					٧			٧			٧	V		٧	٧	٧		٧		
Building Constructions Drawing									٧	٧		٧		٧	٧					
Concrete Technology Lab	٧						٧	٧	٧			٧		٧		٧		٧		
Transportation Engg-I & II					٧		٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧		-
Professional Practices									٧			٧			٧	٧	٧	٧		
Irrigation engineering-I					٧				٧			٧	٧	٧	٧	٧				٧
CADD Lab-I								٧	V			V			٧			٧	-	
Survey Camp	V			V	٧	V		V	V			V						V	-	
Design of steel structures-I		٧			٧			٧	٧	٧	٧		٧	٧		٧	٧	٧		
Soil Mechanics & Foundation Engineering					٧		٧	٧	٧	٧	٧	٧	٧	٧		٧	٧	٧		
Hydrology					٧	٧			٧	٧	٧		٧	٧	٧			٧		٧
Computer Applications Lab			٧		٧	٧			٧	٧	٧	٧		٧	٧	٧		٧		٧
Elective-I								٧				٧								
Open Elective	٧			V	٧			V	V		٧	V		٧	٧	٧				
Pre placement Activity	٧			٧				V	V		V	V		٧	√ √	٧				٧
Major Project	٧				٧				V			٧				-		.1	-1	
Total	7	6	1	4	16	4	5	12	20	11	12	22	12	17	19	18	11	٧ 15	4	5

Deptt. of Civil Engineering Amritsar College of Engineering & Technology, Amritsar

**B.Tech. Computer Science & Engineering** 

### AMRITSAR GROUP OF COLLEGES

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### Department of CSE

Course												Par	ticip	ative					olem ving	
4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Mathematics-											٧		٧		10	٧	٧	10	٧	-
Digital Circuit and Logic Design (DCLD)		٧				٧					٧		٧	٧	٧	٧		٧	٧	
Data Structures	٧	٧					٧				٧		٧	٧	٧	٧		٧	٧	
Object Oriented Programming using C++	٧	٧					٧				٧		٧	٧	٧	٧		٧	٧	
Computer Organization and Assembly Language Programming		٧				٧				٧	٧		٧	٧	٧	٧		٧	٧	
Digital Circuit and Logic Design Lab						٧						٧					٧			
Data Structures Lab							٧				0,60	٧					٧			
Object Oriented Programming using C++ Lab							٧					٧					٧			
Computer Organization and Assembly Language Programming Lab			٧			٧						٧					٧			
Institutional Training									٧			٧						٧	٧	
Discrete Structure											٧		٧			٧	٧			
Operating Systems	٧	٧	٧								٧		٧	٧	٧	٧		٧		
Computer Networks	٧	٧	٧				٧			٧	٧		٧	٧	٧	٧		٧		
Programming in Python	٧						٧				٧		٧	٧	٧	٧		٧		
Relational Database Management System	٧						٧				٧		٧	٧	٧	٧		٧		
Operating			٧											V				٧	٧	

Systems Lab					I	1					I					T							T-	
Computer Networks Lab	, 1	V							٧										-			٧	-	-
Relational	_	/		_	-	-	-	-	,													4		
Database Management System Lab									٧						٧							٧		
Programming in Python Lab	١	1						-	V			-	+	1	٧	+	+	+	+	+	-	٧		
Functional English-II		1	٧		V		1	T	1		V	1	٧		٧	+	٧	V	+		V			
Aptitude-II	V	1	V			1	+	1	+	-	V	+	V	-	٧	+	+.		-	-				
Programming in Java	٧		٧					١	/		Ť		V	_	V	٧	٧ ٧	V			V ,	J		
Design & Analysis of Algorithms								١	1				٧			٧	٧	٧	٧		1	1		
Big Data Analytics	٧		1	٧				V			T		٧			٧	٧	٧	V		V	,		-
Software Engineering				٧			1	٧			٧	٧	٧			٧	٧	٧	٧		V		٧	-
Information Security				V							+	٧	٧			٧	V	V	V		+	-		
Programming in Java Lab	٧							٧			1			1	/				+	+	٧	+		
Design & Analysis of Algorithms Lab	٧							٧						V	1						V			
Big Data Analytics Lab	٧	T	V	1			٧	٧		,	V			٧			٧	٧		-	V	-		
Software Engineering Lab	٧		V	1			٧	٧						٧				٧			V	,	1	
Industrial Training										1	1			٧	+						V	1	,	
Functional English-III	٧	٧		1	V					١	/		٧	٧			٧	٧		٧		+	+	
Aptitude-III	٧	V								V	,		V	V	1		٧	V	-	V	-	+	-	_
Web Technologies	٧	٧				٧		٧			T		٧	İ		٧	٧	V	٧	V	٧	+	1	
Mobile Application Development	٧		٧			٧		٧					٧			٧	٧	٧	٧		٧	V		
Machine Learning	٧									1	+		٧			٧	٧	٧	٧		V		-	
Elective-I	٧		٧						٧				٧		1	V	٧	٧	٧		V	-		V
Open Elective Web		٧		٧		٧		٧		٧	+		٧	٧	,	V		٧			V	-	1	٧
Technologies  Lab  Mobile					1			3/4													V			
Application Development								٧						٧							٧	٧		

Total	3 2	6	7	5	5	9	2 6	2	15	4	29	29	23	33	32	21	14	36	1 9	7
Project Training																				
Industry Oriented									٧			٧						٧	٧	
Software Training									٧			٧						٧	٧	
Pre Placement Activity	٧			٧					٧			٧		٧	٧					
Elective-IV	٧		٧					٧				٧		٧	V			٧		
Artificial Intelligence Lab	٧		٧			٧	٧					٧		٧				٧	٧	٧
Project Lab	٧		٧		٧	V			٧			٧						V	٧	T
Elective-III	٧	V	٧		٧						٧		٧	٧	V					V
Elective-II	٧		٧				٧					٧		٧	٧			V		1
Artificial Intelligence	٧		٧				٧				٧		٧	٧	٧	٧	٧		٧	
Theory of Computations						٧					٧		٧	٧	٧	٧	٧			Ī
Aptitude-IV	٧	V							٧		V	V		V	V		V			+
Functional English-IV	٧	٧		٧					٧		٧	٧		V	V		V			
Learning Lab Elective-I Lab												٧		٧			-	٧	٧	-
Machine							٧					V						V	V	V

HODICSE)

Programme Specific Assessment
B.Tech. Electronics and Communication Engineering

### AMRITSAR GROUP OF COLLEGES

Autonomous status conferred by UGC under UGC act-1956, (2f), NAAC-A Grade, (Formerly Known as Amritsar College of Engineering & Technology Amritsar Pharmacy College

								_												
Course				_	-	ienti	al					Pa	rticip	ativo	e				blen	
EDONIA	1 V	2	3	4	-	6	7	8	9	10	-	12	13	14	15	16	17	18	19	
EDC/LIC	-	٧	+	+	٧	٧		٧	٧	٧	٧	٧	٧	٧	٧	٧	V	٧	V	1
DCLD/VLSI	٧	٧	-	+		٧		V	٧	٧	٧	٧	٧	٧	٧	V	V	V	13	
OOPS	٧			+	٧	٧	٧	V	1	٧	٧	٧		٧	٧	V	V	V		V
NAS	٧	٧	-	-	٧			V	٧		٧	٧			٧	V	V	V		+
EDC/LIC lab	-		٧		٧		٧	V	٧				٧	٧	V	٧		V	V	+
Engineering Math-III											٧	٧	٧		V	V	V	†	V	-
OOPS Lab		٧			٧			٧	٧	٧		٧	V	V	V	V	V	-	V	-
DCLD/VLSI Lab	٧	٧	٧			0		V	٧	٧		V	٧.	1	V	V	+	V		-
LCS	٧	11/21	٧		٧			٧			V	V		V	V	V	-	V	V	+
ACS/DC	٧	٧	176	115		V	٧	V		V		V	V	٧	V		V	V	V	٧
SAS/DSP	٧	V	14	Ril.			V	V	V		V	V	<u> </u>	V		V	ritae	V	V	V
EMFT	٧			Г	٧		V	V	V	٧	V	V	V	V	٧	٧	V	V	V	-
Advanced Networking Lab			٧			٧	٧	٧	٧	Ť		٧		1	V	٧	٧	٧	lege	
Simulation Lab/DSP Lab		1	٧		٧	٧	٧	٧	٧			٧	٧.	٧	٧	٧	17	101	15	٧
Embedded system I/ Embedded system II	٧	٧						٧	٧	٧	٧	٧	٧	٧	٧		7.	٧	٧	20
Elective -I	٧			٧	٧		٧	V	V	٧	V	V	V	V	V		٧	٧	-	
Lab Communication system		Ŋ	٧		٧			٧	٧	٧	٧	Ė	٧	٧		٧	٧	٧		
Lab Hardware En Programming			٧			٧	٧	٧	٧	٧	٧	٧	٧	٧		٧	٧	٧		
WCS COPE	٧	٧			V	٧			V	V	V		V	V	V			٧		٧
MWR MWR	٧	٧				٧	-	٧	V	V	V	V		V	V	٧		V		V
Elective-II	٧		75		٧	٧	V	V	V	V	V	V		V	V	V	٧	V		-
Optical Communication	٧	٧			٧	٧		1	V	V	V		٧	V	V	V	V	V	V	٧
WCS lab	7.5	v	V			٧	٧	V	V	1		V		·	V	٧	٧	V	V	٧
MOE Lab	1		٧	٧	-	٧			V	V	V	٧		٧	V	V	V	V	10	
A Elective -III Lab		V			٧			V	V	V		V	٧	V	V	٧	-	V		
Machine Learning	V				V	٧	V	V	V	V	V	V	V	V	V	-	٧		٧	
Elective –IV	٧	V			V	V			V	V	V	V	٧	-	-	٧	٧	٧		٧
Lab Machine learning		V			V			V	V	V	V	V	V	٧	٧ ٧			٧		٧
Open Elective	٧			٧	V			V	V	٧	٧	V	V	V	-	٧	٧	25	٧	
Pre placement Activity	٧			٧			9	V	V		V	V		-1	٧	٧				٧
Major Project	٧	100		•	٧				V			V		٧	٧			Tr.		
Total	20	15	9	4	19	15	12	24	28	20	20		10	0.1	0.7		10	٧	٧	
Samuel		10	,	-	17	13	12	24	20	20	20	26	18	24	27	22	18	24	11	10

Ahl Mahijon

WES

Machine Common Elective (1)
Lab Machine Lorente

Mr.Atul Mahajan

Lathur

HOD (ECE/EE)

**B.Tech. Electrical Engineering** 

AMRITSAR GROUP OF COLLEGES

Autonomous status conferred by UGC under UGC act-1956, (2f), NAAC-A Grade,
(Formerly Known as Amritsar College of Engineering & Technology Amritsar Pharmacy
College

DEPARTMENT OF ELECTRICAL ENGINEERING

Course	1	2	12	-		ienti						Par	ticip	ative	:				blem ving	
AM-III	1	12	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
CT	-	-				-			-				٧		٧	٧	V	1.0	·V	20
TDC	-				٧	-							٧	٧	٧	V	V		V	V
EMI					٧	-		٧	٧				٧	٧	٧	V	V	V	V	V
EDC					٧	-		٧					٧	٧	٧	٧	V	V	v	V
LCS					٧				٧				٧		٧	٧	٧	V		V
EMFT					٧	٧			٧				٧	٧	٧	٧	٧	V	٧	V
PS	7	4			٧					7			٧	٧	٧	٧	٧		-	-
DE&MP	549	153.	20	-11	٧ ٧	٧	100	-	-				٧	٧	٧	٧	٧			
PE	715		04.1	19	-				٧				٧	٧	٧	٧	٧	2	-	
S&S			-	-	٧								٧	٧	٧	٧	٧	dly.		
MCPLC				-	٧								٧	٧	٧	٧	٧			
		-	-	-	٧	٧			V				٧	٧	٧	٧	٧			
HVE	-	-	-										٧	٧	٧	٧	٧			
NCES	-		-	-									٧	٧	٧	٧	٧		-	
TOTAL		1	-		11	3		2	5				14	12	14	14	14	4	5	5

Mr.Bimal Kumar

HOD (ECE/EE)

**B.Tech. Mechanical Engineering** 

AMRITSAR GROUP OF COLLEGES
Autonomous status conferred by UGC act-1956 (2f), NAAC A Grade
Department of Mechanical Engineering

Course				Ex	peri	entia	I					Pai	rticip	ative			PI	obler	1 501	ving
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		18	19	_
Strength of Materials		٧			٧				٧	٧	V	٧	٧	٧	V	V	V	V	V	+
Theory of Machines		٧			٧					٧		٧	٧	٧	V	V	V	V	+	+
Applied Thermodynamics	٧			٧	V	٧	٧	٧	٧	٧	V	٧		٧	V	V	V	V	1	1
Engineering Materials, Metallurgy and Manufacturing		٧			٧		٧		٧		٧	٧	٧	٧	٧	٧	٧			ľ
Machine Drawing				+	V	+	-	+	+-	-	V	-1		-	-	+-		-		_
Strength of Materials-Lab			+	-	-	+		-	+	-	V	V	٧	٧	٧	٧	٧			
Engineering Materials, Metallurgy and Manufacturing-Lab		٧			٧			٧	٧	٧	V	٧	٧	٧	٧ ٧	V V	٧ ٧		٧	
Automobile Engineering	V	٧	+	+	-	+	-		-			-								
Design of Machine Elements	V	V			٧			٧ ٧	٧	٧	٧	٧	٧	٧	٧ ٧	V		٧ ٧		
Fluid Mechanics			+			1			٧	V		-1		-1		-	-	-	-	-
Mechanical Measurement and Metrology	٧						٧	٧	V	V		V		V	٧	٧		٧		-
Computer Aided Design and Manufacturing					٧		٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧	٧		
Automobile Engineering Lab									٧			٧			٧	٧	٧	٧		
Mechanical Measurement and Metrology Lab					٧	5			٧			٧	٧	٧	٧	٧				٧
Fluid Mechanics Lab			1					٧	V			V			٧	+-	-	-1	-	-
Computer Aided Design and Manufacturing Lab	٧			٧	٧	٧		٧	٧			٧			V			V		
Design of Machine Elements-I Practice		٧			٧			٧	٧	٧	٧		٧	٧		٧	٧	٧		
Institutional/Industrial Training##					٧		٧	٧	٧	٧	٧	٧	٧	٧		٧	٧	٧		
Heat Transfer					٧	V			٧	٧	٧		٧	٧	٧	1		٧		٧
Fluid Machinery			٧		٧	V			V	٧	٧	٧		٧	٧	V	_	V		V
Industrial Automation and Robotics								٧				٧		٧	٧	٧		,		V
Department Elective	٧			٧	٧			٧	V		٧	٧			٧	V				V
Heat Transfer Lab	V			٧					V			٧		٧	٧	+				V
Fluid Machinery Lab	٧				٧				V			٧			•			V	٧	
Industrial Automation and Robotics Lab		٧						٧				٧			٧			,	,	
Industrial Engineering and Management		٧								-		٧	٧						٧	
Refrigeration and Air Conditioning	٧			٧		٧	٧	٧			٧		٧			٧	٧			
Mechanical Vibrations		٧												٧						
Open Elective	٧				٧						٧									
Refrigeration and Air Conditioning Lab					٧				٧			٧			٧			٧		٧
Mechanical Vibrations Lab	٧	٧		٧				٧		-				٧			٧		٧	
Major Project		٧									٧	٧								
Pre Placement Activity	- 3	٧	٧		-				٧	٧		٧			٧					٧
Industrial Training-II		٧			٧			٧	٧							14		٧		
Six Sigma/Software Training		٧		٧												,				
Total	10	14	2	6	19	6	6	16	22	12	15	27 Hea	14	19	22	119	13	17	6	7

Deptt. of Mechanical Engineering
Amritsar Coll 2 of Engg. & Tech.
Amritsar-140 1 (India)

**B.Sc.** (Hons.) Agriculture

### AMRITSAR GROUP OF COLLEGES

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### B.Sc. Agriculture

Course					perie	ntia			-			Par	ticipa	tive			Pro	blem :	Solvir	12
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Fundamentals of Genetics,									V	V				V	٧	V		V		V
Agricultural Microbiology		V							V	V	1			V	V	V				
Soil and Water Conservation Engineering									1					V	1	V				
Fundamentals of Crop Physiology								V	V	V			-	V	V	V				V
Fundamentals of Agricultural Economics									V					V	V	V	V			
Fundamentals of Plant Pathology									V					V	V	V				
Fundamentals of Entomology							1	V						V	V				V	V
Fundamentals of Agricultural Extension Education									V					V	V	V				
Fundamentals of Horticulture									V						V	V	V			
Fundamentals of Soil Science																				
Introduction to Forestry								V							V			V		
Fundamentals of Agronomy									N						V	V	V			
Introductory Biology*							V	V						7	V	V				
Agricultural Heritage	V	V							V	٧		-			V					
Rural Sociology & Educational Psychology								V	V					N	V					Ý
Crop Production Technology – I (Kharif Crops)	V	V						V						V	V			V		
Fundamentals of Plant Breeding		V		-				V	V					V		V		-		V
Agricultural Finance and Cooperation														V	٧	V	V			
Production Technology for Vegetables and Spices								V							V	V				
Environmental Studies and Disaster Management								V	V					N	V	1				
Livestock and Poultry Management														N	V	V				
Crop Production Technology -II (Rabi Crops)								V	V					V	V	V				THE P
Production Technology for			1					V	V	-				V	V	V	-	1		-

Ornamental Crops, MAP and Landscaping									V			7	V	V		-		
Renewable Energy and Green Technology						V			V									
Problematic Soils and their Management						V	N					<b>V</b>	V	V				
Production Technology for Fruit and Plantation Crops						À	V					V	V	¥.				
Principles of Seed Technology						V	1					V	V	N				
Furming System & Sustainable Agriculture						Ŋ	V					V	V	V				
Agricultural Marketing Trade & Prices							V					V	V	V	V			
Introductory Agro-meteorology & Climate Change						1	V					V	V	V				
Principles of Integrated Pest and Disease Management			V			V	-					V	V			V		
Manures, Fertilizers and Soil Fertility Management							V	V					V	N	X			
Pests of Crops, Stored Grains and their Management			V			. 1					6	V	V			V		
Diseases of Field and Horticultural Crops and their Management -I		V				1		V	V			V	V					
Crop Improvement-I (Kharif Crops)						V	V	٧				V		V				V
Entrepreneurship Development and Business Communication						V	V					V	V	V	V			
Geo-informatics, Nano-technology and Precision Farming												V	V	N				
Intellectual Property Rights	V	V				V		V				V	V			1		V
Landscaping		V				V	٧	V	V			V	V			1		
Crop Residue Management							V			-		V	V	V				
Diseases of Horticultural Crops and their Management						V					V					V	V	٧
Flower Cultivation and Landscape Gardening						V	V					1	V	V				
Breeding of Field and Horticultural Crops					-	V	V	V				٧	V	V				
Environmental Science and Disaster Management							V					V	V	V				
Fundamentals of Agri-business Management						V	V					V	V	V	V			
Protected Cultivation and Post-	1		1		1	-	1	-	1		-	V	V	V	-	-	-	

TOTAL	4	10	3	0	0	0	2	38	44	14	9	0	1	58	59	49	2214	12	2	10
Documentation, reporting and presentation		V																		
Industrial attachment (Off campus)								V												
On-campus learning									V											
Rural Experience																		V		
Commercial Floriculture and Landscaping								1	V					V	V	٧				
Forcing Techniques in Vegetable Production		V						V	V	V	V			V	٧					V
Vegetable Breeding and Seed Production																				
Commercial Vegetable Production											V			V	V	¥		Y		
Processing and Value Addition of Horticultural Crops									V					V	V	V	V	V		
Commercial Fruit Production								V	V					V	٧	V				
Nursery Management of Horticultural Crops											V				V	V		V		
Production Technology of Economic Forest Trees	V	V						V		V					V					
Production Technology of Spices, Aromatic, Medicinal and Plantation Crops									V					V	V	V	V			
Farming Systems and Sustainable Agriculture								V	V					V	V	N	N			
Weed Management									V	V					V	V	N			
Analytical Techniques in Soils, Plants, Fertilizers and Water									V					V	V	N	1			
Soil Physical and Biological Environment									V					1	V	V	V			
Introduction to Molecular Biotechnology									1	V	V			V		N				
Diseases of Field Crops & their Management			V					V						1	V			V		
Post-harvest Management of Fruits and Vegetables								V						V	V	V				V
Renewable Energy								V			٧			V	V	V				

Ms Dipti Malhotra Dean, UGC Courses

Nepartment of Agriculture

**BHMCT** 

### AMRITSAR GROUP OF COLLEGES

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### Department of Hotel Management

	Т								+		_					_							
Course				E	cper	rier	ntia	ı						Par	ticip	ativ	е			Pro	blen	n Sol	ving
	1	$\overline{}$	2 3	4	1	5	6	7	8	9	1	0	11	12	13	14	1 1	5 1	6	17	18	19	20
Food Production (Theory)	٧												٧			٧	٧	٧		11	10	19	20
Food Production (Practical)	٧		٧										٧			٧	٧	ν	,				
Food & Beverage Service (Theory)	٧												٧			٧	٧	٧					
Food & Beverage Service(Practical)	٧	-	٧									,	/			٧	٧	٧					
Front Office (Theory)	٧	$\dagger$			+	+	+	+	+		-	-	,			٧	٧	V	+	-	_		-
Front Office (Practical)	٧		٧		+	+	1	+	+		+	1	,			٧	V	V	+	-	-		
Accommodation(Theory)	٧		$\vdash$		+	+	+	+	+		+	1	,	-		٧	V	V	+	-		_	
Accommodation (Practical)	٧		٧									v				٧	٧	٧	-	-1.1	+		
English(Theory)		٧		٧	V	-	+	+	+	٧		٧	+	٧			٧	V	V		V	_	
English(Practical)			٧		1	$\dagger$	1	+	+	٧	-	٧	-	٧	-		v	٧	V		V		
Human Values, DE addiction And Traffic Rules(Theory)		٧		٧	٧					٧		٧		٧			٧	٧	٧		/		
Human Values, De- addiction And Traffic Rules (Lab/ Seminar)			٧							٧		٧	,	V			٧	٧	٧		V		
Mentoring And Professional Development(Practical)																	٧	٧	٧	,	/		
Environmental Science(Theory)		٧		٧	٧				,	V	٧	٧			+		٧	٧	٧		-	+	-

Accounting Skills For Hospitality(Theory)			٧		٧	٧				٧	٧	٧				٧	٧	٧		
Food & Beverage Control And Management(Theory)	s		٧		٧	٧				٧	٧	٧				٧	٧	٧		
Principles Of Management(Theory)			٧		٧	٧			,	V	V	٧			,	V	v	٧		+
Event Management(Theory)			V	,	/	٧			,	,	,	V			1	,	<i>y</i>	٧		+
Tour & Travel Management(Theory)	٧		٧	/ \	,			V	V	1 1	,			V	' v	1 1	,	v	٧	٧
Interior Decoration(Theory)	٧		٧	V				٧	V	v				V	V	v	' '	/	٧	٧
Event Management(Theory)	٧		٧	٧				٧	٧	٧				٧	٧	٧	v	,	٧	٧
Tour & Travel Management(Practical)	٧		٧	٧			+	٧	٧	٧				٧	٧	٧	٧		٧	٧
Interior Decoration(Practical)	٧		٧	٧	1			٧	٧	٧			+	٧	٧	٧	٧		٧	٧
Principles Of Marketing(Theory)	٧		٧	٧		6.1		٧	٧	٧				٧	٧	٧	٧		٧	٧
Financial Management(Theory)	٧		٧	٧				٧	٧	٧			-	٧	٧	٧	٧		٧	٧
ntrepreneurship(Theory)	٧		٧	V	+	+	-	٧	V	V	+		-	V	V					
Project Report(Practical)		٧			-	+		٧		-	-	-	-	V		٧	٧		٧	٧
	٧	1	٧	٧		+		٧	٧	٧		-	+	V	V	V	V	٧	V	٧
Total	17	8	15	16	7	0	0	10	18	14	17	4	0	17	28	28	19	6	10	10

menna Hoter Managemen

Mr. Purshotam Kainth Head, HMCT

**Bachelor of Business Administration** 

### Bachelor of Business Administration (BBA)

			-																	
Course			-	Exp	perie	ntial						Pa	rticip	ative		- 5			blem	
Principles and	1 V	2 V	3	4	5 V	6	7	8	9	10	11	12	13	14	15	16	17			
Practices of Management	ľ				V				٧		٧	٧	٧		٧	٧	٧			٧
Basic Accounting	٧	V			V		+				٧	V	V				-		-	
Managerial Economics I	٧								٧		٧	٧	V		٧ ٧	٧	√ √	-		٧
English	٧	٧	٧	٧	٧		+		٧		٧	V	V		٧	٧		-		_
Human Values, Deaddiction and Traffic Rules	٧	٧	٧	٧	٧						٧	٧			٧	V	V V			
Mentoring and Professional	٧				1-1		1					٧			٧		٧			
Business Statistics	ii.	٧			٧		1		٧		٧	٧	٧		٧	٧	٧	٧		
Business Environment	٧	٧			٧		1		٧		٧	٧	٧		٧	٧	٧	٧		٧
Managerial Economics II	٧	٧					1		٧		٧	٧	٧		٧	٧	٧	٧		٧
Environmental Studies	٧	٧					1		٧		٧	٧	٧		٧	٧	٧	٧		
Organizational Behaviour	٧	٧					1		٧	12	٧	٧	٧		٧	٧	٧	٧		٧
Marketing	٧	٧					1		٧		٧	٧			٧	٧	٧	V		٧
Cost &Management Accounting	٧	٧							٧		٧	٧	٧		٧	٧	٧	٧		•
Production and Operation	٧	٧					1		٧		٧	٧	٧		٧	٧	٧	٧		٧
IT tools for Business	٧	٧					1		٧		٧	٧	٧		٧	٧	٧	٧		٧
Business Research Methods	٧	٧							٧		٧	٧	٧		٧	٧	٧	٧		٧
Human Resource Management	٧	٧					1		٧		٧	٧	٧		٧	٧	٧	٧		٧
Financial Management	٧	٧					1		٧		٧	٧	٧		٧	٧	٧	٧		٧
Entrepreneurship Development	٧	٧							٧		٧	٧	٧	,	V	٧	٧	٧		٧
Business Ethics and Corporate	٧	٧						1	٧	1	٧	٧	٧	,	v	٧	٧	٧		٧
Social responsibility	٧	٧						,	V	,	V	٧	٧	,	/	٧	٧	٧		٧
Operation	٧	٧					1	,	/	1	/	٧	V	1	,	V	٧	٧	+	_

Research				T	T	T	T	$\dagger$	T					1	1	_	_			_
Mercantile Law	٧	٧					1	T	٧		٧	٧	٧	1	٧	٧	٧	٧	+	v
Consumer Behaviour	٧	٧			٧			1	٧	T	٧	٧	٧		٧	٧	٧	٧		
Advertising and Sales Management	٧	٧			٧				٧		٧	٧	٧		٧	٧	٧	٧		
Corporate Accounting	٧	٧			٧			T	٧		٧	٧	٧		٧	٧	٧	٧	+	+
Financial Markets & Services	٧	٧			٧				٧		٧	٧	٧		٧	٧	٧	٧		
Industrial Relations & Labour Law	٧	٧			٧				٧		٧	٧	٧		٧	٧	٧	٧		
Organisation Change & Development	٧	٧			٧			T	٧		٧	٧	٧		٧	٧	٧	٧		
Strategy Management	٧	٧			٧			T	٧		٧	٧	٧		٧	٧	٧	٧		-
Company Law	٧	٧			٧			$^{+}$	V		V	V	V	+	٧	٧	٧	V	+	+
Services Marketing	٧	٧			٧				٧		٧	٧	٧		٧	٧	٧	٧		+
Personal Financial Planning	٧	٧			٧				٧		٧	٧	٧		٧	٧	٧	٧		
Direct and Indirect Tax Laws	٧	٧			٧				٧		٧	٧	٧		٧	٧	٧	٧		+
Training & Development	٧	٧			٧				٧		٧	٧	٧		٧	٧	٧	٧		
Cross Cultural Human Resource Management	٧	٧			٧				٧		٧	٧	٧	-	٧	٧	٧	٧		
Total	35	34	2	2	19	0	0	0	33	0	35	36	33	0	36	36	36	30	0	0

Dr. Maninder Singh Gill Head Department of Management Studies

**Bachelor of Computer Application** 

### AMRITSAR GROUP OF COLLEGES

Autonomous status conferred by UGC under UGC act-1956, (2f), NAAC -A Grade (Formerly Known as Amritsar College of Engineering & Technology I Amritsar Pharmacy College)

DEPARTMENT OF COMPUTER APPLICATIONS

### BCA

			_		_						BC	A													
Course						Exp	erie	ntia	al						]	Par	ticip	ative						blen	
37.0	-	1	2	_	3	4	5	6	7	8		9	10	1	-	12	13		_					ving	
Mathematics			٧	_			٧				1	V	V	V	-	V	٧	14 V	15	1	6	17	18	19	12
Fundamentals of Computer and IT		٧	٧	1	٧						1	/	٧	V	_	V	٧	V	V	V		٧ ٧	V	V	-
Problem Solving using C		٧	٧						٧		1	/	٧	٧	1	1	٧	٧	V	V	+	v	V	-	-
English English			٧	1	/	-	٧		٧		V	,		V	V	,	٧	٧	V	V			V		L
Practical/Laborator	v					1	٧							٧	V	,	٧	V	V	V	-	V			-
Human Values, De- addiction and Traffic Rules	-		٧			1	/			٧	V		٧	٧	V	+	٧	•	V	V		V		٧	
Mentoring and Professional	1	٧	٧	+	+		+	+		٧	V		٧		V	-	V		V	V	-				
Development Fundamentals of	+	-		-															V	V			٧		
Statistics Computer System						٧				٧				٧	٧			٧	٧	V	1		٧		_
Architecture	١		٧	٧										٧	٧				٧	٧	V	,			_
Object Oriented Programming using C++	1	'	٧						٧		٧	1	/	٧	٧	1	V	٧	٧	٧	V	'	٧		
Environmental Studies						٧		1	٧	٧	٧	v	,	٧	٧	1	/	٧	٧	٧	V		V	-	
Computer Networks	V	1	1	٧					+		V	V	,	٧		+									
Programming in Python						٧		1	1		٧			V	٧ ٧	1		-	۷ ۷	٧ ٧	٧	-	V		V
Data Structures						V	+	1	,	٧	٧	+	-			_									V
PC Assembly & Froubleshooting	٧			٧	٧	٧	V	-	-	V	V	٧	+	٧	٧ ٧	V	+	V	-	٧	٧	-	/		
Software Engineering		V				٧	1	+	1	V	٧	٧	+	٧	_	V	,	/	+	٧	V		,	-	_
Database Management Systems						٧		V	1	/	٧	٧	,	V	٧	V	1	/		٧	٧	V			
perating Systems						٧	V	1	+		٧	V	-	/		V	-	,							
Veb Designing				٧		٧	V			1	V	V	1	-	٧	V	٧	-	/	1		V		ν	1
rogramming in HP								٧	V	1	-	V	1		٧ ٧	-	V			٧		٧	+	V	
rogramming in	٧				٧	٧		٧	٧		٧		V	7	٧	_		V	, ,	V		-	+	V	
inux Operating ystem			1	1		٧					٧		+	-	٧	٧	V			,	_	-	-		
loud Computing	٧	٧	1				-		-	-	V													V	1
Total	9	11		6	2	15	3	9	1		19	٧	V	-	V	٧	٧	V		1	٧				7
				- 1		13	)	9	1	U	19	14	1	8	21	17	1	8 2	1 2	21	14	14	1 2	5	7

Head,
Dept. of Computer Applications,
Amritsar College of Engg. & Technology
Amritsar

**B.Com (Hons.)** 

## Bachelor of Commerce (Hons.) (B.Com)

Course		Business Organization and	Management	Financial	Accounting	Managerial	Economics	English	Mentoring and Professional	Development	Human Values,	De-	addiction and	Traffic	Rules	Cost Accounting	Business	Environment	Business
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	2							<	<		<								
	4								<		<		-					-	_
Experiential	C	<		<		<	-	<	- <		4					<	<		<
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Pa	12																		
Participative	13	<		<		<		<								<	<		<
ative	14																		
	15	<		<		<		<	<		<					<	<		<
	16	<		<		<		<	<		<					<	<		<
Pı	17	<		<	+	<		<	<		<					<	<		<
Problem	18																		
Solving	19																		
200	20	<		<		<		<	4		4					<	<		<

Workshop on Computerized	Development Development	Practice	IIICOME Lax Law	Company Law	Accounting	Corporate	Commerce	ļn,	for Business &	tools	Workshop on IT	Indian Economy	Management	Resource	Human	Mercantile Law	Accounting	Management	Science	Environmental	Statistics
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	<	<	<			<					<		<		Relations and Labour Laws
								-							Management
-		<	<	<			1	<		<	<				Services
	<	<	<	<			`			<	<				Services Management
	<	<	<	<			<			<	<				Services Tax
	<	<		<			<			4	<				Management
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Head, Management Studies, Deptt. of Management Studies, Amrtsar College of Engg.

& Technolog, Amritsar.

**B.Sc. Fashion Design** 

### Autonomous status conferred by UGC under UGC act-1956, (2f), NAAC-A Grade DEPARTMENT OF FASHION DESIGN B.Sc. (FASHION DESIGN) AMRITSAR GROUP OF COLLEGES

Course		Elements of Textiles	Element of Fashion	Elements of Design - I & II	Fashion Model	- 18	Fashion Art –	Sketching	Garment	Construction –	Pattern Making – l&II,,III,IV	History of Indian Costumes	Indian Art Appreciation	Traditional Indian textile and embroideries.	Fashion photography	Dyeing and printing techniques	History of western	costumes
	2				<		<	<	<		<	•	•	4				<
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Experiential	4 5																	
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(BEAN UGC COURSES)
Head, Deptt. of Fashion Design
Amritsar College of Engg.
& Tech. Amritsar.

**B.A.**(**J&MC**)

# (Bachelor of Arts (Journalism & Mass Communication) (BA.JMC)

Course		Introduction to Journalism	Introduction to	Media &	Communication	Indian Political	Indian Political & Social System	Communication Lab	English ~	Human Values,	Deaddiction &   Traffic Rules	Mentoring &	Professional	Development	Reporting &	Editing for Print	Media &	
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# **MBA**

# Master of Business Administration (MBA)

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Human Values,	Employee Relations	Development	Change and	Management of Financial Services	Management	Analysis and Portfolio	Investment	Marketing	Services	Behaviour	Consumer	Marketing Research	& Design	Behaviour	Organizational	Business	Applications for	Elective
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Resource	Human	Financial	Personal	Finance and Financial Derivatives	Media Marketing	International and	and Sales Management	Integrated Marketing	Strategy	Viva-Voce	Seminar on Summer Training Report	Traffic Rules
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Project / Management < 14 0 7 < 4 35 | 13 | 0 < 4 < 2 < 12 16 0 < 4 16 0 34 31 < 31 2 < 0 33 < < 4

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# **MCA**

# AMRITSAR GROUP OF COLLEGES

Autonomous status conferred by UGC under UGC act-1956, (2f), NAAC -A Grade
(Formerly Known as Amritsar College of Engineering & Technology I Amritsar Pharmacy College)
DEPARTMENT OF COMPUTER APPLICATIONS

### MCA

		T	_	_							V	CA												
Course		_					peri	enti	al						P	artic	cipat	ive			T		blen	
Discrete	_	1	_	2	3	4	5	6	7	8	1	9	10	11	-	-	13	14	15	10	1.2		ving	
Structures Optimization	&			V			٧				1	1	/	٧	٧	-	1	V	V	16 V	17 <b>√</b>	18 V	19 V	2
Programming in Python							٧				1	1	+		٧	1	,	V	٧	٧		_	-	-
Advanced Da Structures	ata						٧		٧	٧	V	V	,	٧	٧	V	,	V		٧	V	V		-
Advanced Database Management System						,	٧		٧	٧	٧	V		٧	٧	V				٧	٧	٧	٧	
Technical Communication	on		٧			1	/			٧	٧	٧	1	10	٧	V	1	,	V	٧	٧		٧	
Web Technologies		٧	٧					1		٧	٧	٧	-		٧	٧	+	-	v	٧		٧	•	
Design & Analysis of Algorithms						V	1	1		٧			1	/	٧	-	٧	,	V	٧		v	-	-
Advanced Java	1			+	+	+	+	-	+	-	-		-											
Linux Administration						٧	+	+	+	+	V	٧	+		٧ ٧	V	V	_		,				
Information Security & Cyber Law					1	٧	1	,	V ,	/	V	٧	V	1	٧	٧	V	V			٧	٧	-	٧
Advanced Computer Networking		٧	٧	٧			1	1	1		V	٧	٧		٧	٧	٧	٧	V	,	٧	-	+	
Artificial Intelligence & Soft Computing Theory of						٧					V			,	V	٧	٧	V	V		-		,	٧
Computation	1								٧	,	/			1	1			٧		+	1	1	+	-
Mobile Applications Development	٧	/			٧	٧	٧		٧	١	/			٧	1						ν		+	
Simulation & Modelling		,	V			٧			٧	V	1	٧	٧	+		٧	٧	-	V	V	V	+	-	
Machine Learning & Data Analytics sing Python				٧		٧		٧	٧	٧		٧	٧	٧		٧	٧		٧	٧	٧			
dvanced Web echnologies			1			٧	٧			٧		٧	٧		+	٧	٧	٧	+	-	V	-	V	-
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Dept. of Computer Applications, Amritsar College of Engg. & Technology

M.Tech. (CSE)

# AMRITSAR GROUP OF COLLEGES

Autonomous status conferred by UGC under UGC act-1956, (2f), NAAC-A Grade

### Department of CSE

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Course	Ļ	10	_	_		ntia						Pa	articij	oativ	e				blen ving	
Mathematical	1	2 V	3	4	5	6	7	8	9	10	1	12	2 13	14	15	16	17	18	19	
foundation of Computer Science		V											٧	٧	٧		٧			
Advanced Data Structure		٧			٧		T		-		٧	V	٧	V	V	V	V	V		
Machine Learning	٧			V	V	V	V	V	-	+	V	V	+	V	V	+.	-	+		1
Data Science		V	V			V	V	+	V		V	V	V	V	V	٧	٧	٧		٧
Research Methodology and IPR	٧	٧			٧	٧			V	٧	V	٧	٧	V	V	٧ ٧	V	٧		
Advanced data Structure lab	٧	٧									٧	V	٧		٧	٧	٧		V	
Data Science Lab	V								-		+	V	-	-	-	1.	20.40			-
Computer Vision	V	V	_				V	V			-	V	-	-		٧	٧			
Digital Forensic		V				1		V		-	V	V	V	V	V	V	٧	-		
Computer Vision Lab	٧							-		٧	ľ	V	V	V	٧		٧	٧		
Advance Algorithm Lab	٧								٧		٧	٧		٧		٧		٧		
Mini Project with seminar	٧	٧					٧	٧	٧	٧							٧	٧		-
English for research Paper writing									٧			٧							V	V
Optimization techniques	٧	٧			٧				٧			٧	٧	٧	٧	٧				٧
Buisness Analytcis	٧	٧						٧	٧			V	V	V	٧	V		٧	-	
ndustry/Institutional	٧				٧				٧			V		*	V	V		V		
Dissertation									-	V		*						-	٧	٧
Total	11	10	1	1	5	3	4	5	8	4	7	14	8	10	10	9	10	7	4	5

Aforthod CSE 20/2/21

M.Tech. Civil Engineering

Amritsar Group of Colleges Department of Civil Engineering (M.Tech Civil Engineering)

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Course					xper			-				Pa	rticip	ative					blem	
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Composite Materials	٧	٧			٧				٧		٧				٧	٧	1	10	V	21
Hydrological Processes		٧			٧	٧								T	٧	٧			٧	
Pavement Design	٧	V					V			1	V	+	-	-		-	-	-	-	
Geoenvironmental Engineering					٧					٧	Ť		-		V	٧ ٧				-
Advanced Structural Design		٧				٧	٧				٧				٧	٧				_
Water Quality Modeling			٧		٧	٧					Ħ				٧	V				
Earthquake Engineering		٧	٧		٧				٧		٧				٧	٧				٧
Advanced Traffic Engineering		٧			٧	٧	٧				٧				٧	٧				*
Elective - I		٧		٧						1			V		V	V				
Elective - II		V		V					V	-			V		V	-				
Elective - III		٧		V					1		٧		V		-	٧				
Elective - IV		٧		V	V				V	-	V	-	V		٧	٧				
Seminar		V		V	V				V	V		V	V		٧	٧				٧
Project	٧		V		V	V		٧	V	V		V		٧	٧					٧
Dissertation	٧	٧		٧	V	V		V	V	V		V		٧ ٧	٧			٧	٧	٧
Total	4	12	3	6	10	6	3	2	6	4	6	2	4	3	V 15	12	0	2	٧ 4	V 5

Head Deptt. of Civil Engineering Amritser Company, Amritser & Technology, Amritser

**B. Pharmacy** 

# Amritsar Group of Colleges, Amrilan

Department of Pharmaceutical Sciences B. Pharmacy

Course					perier	ntial						I	artic	pativ	e			Pro	blem	Sol	vii
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Human Anatomy and Physiology		V	1		V			1		V	1	-	- 1	J 1			6	17	18	19	+
Pharmaceutical Analysis	٧		+	+	V	+	+	+	+	V	V	,	+	1			v				-
Pharmaceutics	V	+	1	,	-	-	+	+	-		-		_								
Pharmaceutical Inorganic	V	-	-	-	+.	-	+	-	+	٧		-		١	/ \	1	V				
Chemistry Communication skills	1	٧			٧					V	٧			V	V	1	/				
Remedial Biology/	٧	٧	-						١	1	V	V			V		1				t
Remedial Mathematics			V		٧						٧				٧	,	1				
Pharmaceutical Organic Chemistry		٧		T	٧			$\dagger$		٧	V	٧	+	V	V	1	1	-			-
Biochemistry	V	V		+	V	+	+	+	+	V	V	V	+	-	-						
Pathophysiology		V		+	1		+	+	+	V	V	·V	-	٧	-	-		_			
Computer Applications in Pharmacy	٧							+	t	V	$\parallel$	-		V	V		-	-	-		
Environmental sciences	V			1			+	+	+	+	V	-	+	-	-			-	-	_	_
Pharmaceutical Microbiology		V			V	-	+	+	+	V	V		-	-	٧	-	-	-			_
Pharmaceutical Engineering		V	-	-	V	-	-	+	-	V	V	V	-	V	٧	- 0	-	-			
Medicinal Chemistry		1	+	+	V	+	+	+	+	V	V	V	+	V		V	-		_		
Pharmacology			+			V	+	V	+	V	V	-	-	٧	٧	V	-	-			
Pharmacognosy and Phytochemistry	٧				٧	V		V	+	V	V	٧		٧	٧	V	-	+	-	-	_
IndustrialPharmacy	V		+	+	٧	-	+	+	+	-1	-	-	-	-	-		+	_			
PharmaceuticalJurisprudence		V	+	+	V	-	+	+	+	٧	٧	-	-	-	٧	٧	_				
HerbalDrugTechnology			+	+	٧		-	+	+		V	+	-	-	٧	V	-	_			
Biopharmaceutics& Pharmacokinetics	٧				V		-	$\vdash$		٧	V	٧		٧ ٧	√ √	V	_	+	+	-	_
PharmaceuticalBiotechnology			V		V		+	+	+	V	V	-1	-		-		+	-	-	_	
QualityAssurance	V	-		-	٧			+	-	V	V	V	-	٧	٧	٧	-	4	-		_
PharmacyPractice	V		-	-	٧			V	1	V	V	V	V	-	٧	٧	-	+		-	_
NovelDrugDeliverySystems	V			-				l v		V	V	-	V		٧	-	+	-	٧	-	_
PracticeSchool	1						-	V	-	V	V	٧	V	٧	٧	٧	+			-	_
Biostatistics&Research Methodology					٧			V			V	V	V		٧ ٧	٧	+	-	V		
Social&PreventivePharmacy		V	V		V			#		V	-	-		٧	V	V	+	+	-	-	_
PharmaMarketingManagement	V				-			+	-	V		V	-	V	V	V	+	+	-	-	_
PharmaceuticalRegulatory Science	٧			٧	٧					V		V		V	V	V		1		1	
Pharmacovigilance		٧			٧			1		٧		V		V	-	V	+	+		-	_
QualityControl&Standardization OfHerbals			٧		٧					٧	٧	Ė		٧	٧	V		1	1	1	_
ComputerAidedDrugDesign				٧	٧						٧			V	V	V	+	+		-	_
CellAndMolecularBiology			٧		٧					٧	V			V	V	V	-	+	+	+	_
CosmeticScience				٧						٧	٧			V	V	V	-	+	+		_
AdvancedInstrumentation echniques	٧				٧					٧	٧			٧	٧	٧					_
DietarySupplements& Jutraceuticals				٧	٧					٧				٧	٧	٧					
PharmaceuticalProduct Development	٧			٧	٧				٧					٧	٧	٧					
rojectWork	100	21-5						V										1	1		
Total	16	11	6	5	24	1	0	4	2	27	28	14	2	26	34	35	0	3	(	)	0

Head of Department

Department of Pharmaceutical Sciences

**B.Sc. MLS** 

# Amritsar Group of Colleges, Amritsar Department of Pharmaceutical Sciences B.Sc. Medical Laboratory Sciences

Course			1	Exp	erien	tial						Part	icipa	ative					olem ving	
	1	2	3	4	5	6	7	8	9	10	П	12	13	14	15	16	17	18	19	20
Essential Biology		٧			٧					٧	٧			٧	٧	٧				
General Microbiology	٧	٧			٧					٧	٧	٧		V	٧	٧				
Basics of Biochemistry	٧	٧			٧			П		٧	٧	٧		٧	٧	٧				
English		٧			٧				٧		٧	٧			٧	٧				
Human Values, De addiction and Traffic Rules	٧	٧			٧				٧	٧	٧	٧		٧	٧	٧				
Mentoringand ProfessionalDevelopment	٧				٧			٧	٧		٧	٧			٧	٧				
SystemicBacteriology Theory		٧	٧		٧					٧	٧			٧	٧	٧				
BiochemicalMetabolism	٧	٧			٧			П		٧	٧	٧		٧	٧	٧				
Humananatomy andphysiology		٧	٧		٧					٧	٧	٧		٧	٧	٧				
BasicHematology-& HematologicalTechniques		٧			٧					٧	٧	٧		٧	٧	٧				
BasicCellPathology	٧	٧			٧					٧	٧	٧			٧	٧				
ClinicalBiochemistry		٧			٧					٧	٧			٧	٧	٧				1
Immunologyand Mycology		٧	٧		٧	٧				٧	٧	٧		٧	٧	٧				
MedicalLabManagement		٧			٧			П	V	٧	٧	٧		٧	٧	٧				
Histotechnology		٧			٧					٧	٧	٧			V	٧				
MinorProject								$\Box$										٧		
BloodBanking	٧	٧			٧			$\Box$		٧	٧			٧	-V	٧				
Parasitologyandvirology		٧	V		٧	٧				٧	٧			٧	V	٧				-
MajorProject								$\Box$										٧		
Total	7	16	4	0	17	2	0	1	4	15	17	12	0	13	17	17	0	2	0	0

Mr.SorabhSchajpal Head of Department

Department of Pharmaceutical Sciences