

Course Structure of B.Sc. (Mathematics, Artificial Intelligence, Computer Science)

B.Sc. MAICS									
Semester	Nature of the Course	Subject Name	Subject Code	Credit Points	CIA Total Marks	ESE Total Marks	ESE Pass Marks	Total Marks	Pass Marks
I	Mandatory : Language Course -I	English- I	ENG101	4	30	70	28	100	40
	Choice Based: Language course -II *	Second Language- I	ARA101	4	30	70	28	100	40
			FRE101	4	30	70	28	100	40
			HIN101	4	30	70	28	100	40
			SAN101	4	30	70	28	100	40
			TEL101	4	30	70	28	100	40
	Choice Based : Core courses	Mathematics- I: Differential Equations	MAT101	4	30	70	28	100	40
		Mathematics Pr- I: Differential Equations	MAT111	1	15	35	14	50	20
		Artificial Intelligence- I: Fundamentals of Information Technology and AI	ART101	4	30	70	28	100	40
		Artificial Intelligence Pr- I: FIT Lab	ART111	1	15	35	14	50	20
		Computer Science- I: Programming in C	CSC101	4	30	70	28	100	40
		Computer Science Pr- I: Programming in C	CSC111	1	15	35	14	50	20

	Mandatory: Ability Enhancement Compulsory Course-I	Gender Sensitization	AECC101B	2	15	35	14	50	20
	Choice Based : Skill Oriented Course	Open Elective* : Any one from the List	SOC101	2	15	35	14	50	20
II	Mandatory : Language Course -I	English- II	ENG202	4	30	70	28	100	40
	Choice Based :Language course -II *	Second Language- II	ARA202	4	30	70	28	100	40
			FRE202	4	30	70	28	100	40
			HIN202	4	30	70	28	100	40
			SAN202	4	30	70	28	100	40
			TEL202	4	30	70	28	100	40
	Choice Based : Core courses	Mathematics- II: Differential and Integral Calculus	MAT202	4	30	70	28	100	40
		Mathematics Pr- II: Differential and Integral Calculus	MAT212	1	15	35	14	50	20
		Artificial Intelligence- II: Programming using Python	ART202	4	30	70	28	100	40
		Artificial Intelligence Pr- II: Python Lab	ART212	1	15	35	14	50	20
		Computer Science- II: Programming with C++	CSC202	4	30	70	28	100	40
		Computer Science Pr- II: Programming with C++	CSC212	1	15	35	14	50	20

	Mandatory: Ability Enhancement Compulsory Course-II	Environmental Science	AECC202A	2	15	35	14	50	20
	Choice Based : Co-Curricular Activity	Open Elective* : Any one from the List	CCA601	2	15	35	14	50	20
III	Mandatory : Language Course -I	English- III	ENG303	3	30	70	28	100	40
	Choice Based :Language course -II *	Second Language- III	ARA303	3	30	70	28	100	40
			FRE303	3	30	70	28	100	40
			HIN303	3	30	70	28	100	40
			SAN303	3	30	70	28	100	40
			TEL303	3	30	70	28	100	40
	Choice Based : Core courses	Mathematics- III: Algebra	MAT303	4	30	70	28	100	40
		Mathematics Pr- III: Algebra	MAT313	1	15	35	14	50	20
		Artificial Intelligence- III: Artificial Intelligence	ART303	4	30	70	28	100	40
		Artificial Intelligence Pr- III: AI Lab	ART313	1	15	35	14	50	20
		Computer Science- III: Implementing Data Structures using C++	CSC303	4	30	70	28	100	40

		Computer Science Pr- III: Implementing Data Structures using C++	CSC313	1	15	35	14	50	20
	Choice Based : Institutional Specific Skill Enhancement Course-I	Communication Skills	SEC301A	2	15	35	14	50	20
	Choice Based : Department Specific Skill Enhancement Course-I	Open Elective* : Any one from the List	SEC302	2	15	35	14	50	20
IV	Mandatory : Language Course -I	English- IV	ENG404	3	30	70	28	100	40
	Choice Based: Language course -II *	Second Language-IV	ARA404	3	30	70	28	100	40
			FRE404	3	30	70	28	100	40
			HIN404	3	30	70	28	100	40
			SAN404	3	30	70	28	100	40
			TEL404	3	30	70	28	100	40
	Choice Based : Core courses	Mathematics- IV: Real Analysis	MAT404	3	30	70	28	100	40
		Mathematics Pr- IV: Real Analysis	MAT414	3	30	70	28	100	40
		Artificial Intelligence- IV: Machine Learning	ART404	3	30	70	28	100	40

		Artificial Intelligence Pr- IV: ML Lab	ART414	3	30	70	28	100	40
		Computer Science- IV: Data Base Management Systems	CSC404	3	30	70	28	100	40
		Computer Science Pr- IV: Data Base Management Systems	CSC414	3	30	70	28	100	40
	Choice Based : Institutional Specific Skill Enhancement Course-II	Universal Human Values	SEC403B	2	15	35	14	50	20
	Choice Based :Department Specific Skill Enhancement Course-II	Open Elective* : Second course from the List	SECE404	2	15	35	14	50	20
V	Mandatory : Language Course -I	English- V	ENG505	3	30	70	28	100	40
	Choice Based: Language course -II *	Second Language-V	ARA505	3	30	70	28	100	40
			FRE505	3	30	70	28	100	40
			HIN505	3	30	70	28	100	40
			SAN505	3	30	70	28	100	40
			TEL505	3	30	70	28	100	40
	Choice Based : Core courses	Mathematics- V: Linear Algebra	MAT505	4	30	70	28	100	40

		Mathematics- Pr- V: Linear Algebra	MAT515	1	15	35	14	50	20
		Artificial Intelligence- V: Machine Learning Operations	ART505	4	30	70	28	100	40
		Artificial Intelligence Pr- V: Operations Lab	ART515	1	15	35	14	50	20
		Computer Science- V: Programming in JAVA	CSC505	4	30	70	28	100	40
		Computer Science Pr- V: Programming in JAVA	CSC515	1	15	35	14	50	20
	Choice Based : Generic Elective Course	Inter Disciplinary Elective* : Any one from the List	GE501	4	30	70	28	100	40
	Mandatory: Ability Enhancement Compulsory Course-III	Capacity Building	AECC603	2	15	35	14	50	20
VI	Mandatory : Language Course -I	English- VI	ENG606	3	30	70	28	100	40
	Choice Based: Language course -II *	Second Language-VI	ARA606	3	30	70	28	100	40
			FRE606	3	30	70	28	100	40
			HIN606	3	30	70	28	100	40
			SAN606	3	30	70	28	100	40
			TEL606	3	30	70	28	100	40

	Choice Based : Core courses	Mathematics-VI: Numerical Analysis	MAT606	4	30	70	28	100	40
		Mathematics Pr-VI: Numerical Analysis	MAT616	1	15	35	14	50	20
		Artificial Intelligence-VI: Natural Language Processing	ART606	4	30	70	28	100	40
		Artificial Intelligence Pr-VI: NLP Lab	ART616	1	15	35	14	50	20
		Computer Science-VI: Web Technologies	CSC606	4	30	70	28	100	40
		Computer Science Pr-VI: Web Technologies	CSC616	1	15	35	14	50	20
	Choice Based: Project/ Internship/Core Elective* Any one from the core discipline	Mathematics	DSE607	4	30	70	28	100	40
		Artificial Intelligence	DSE607	4	30	70	28	100	40
		Computer Science	DSE607	4	30	70	28	100	40