

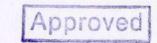
Department of Biochemistry

Programme Name: B.Sc. (Biochemistry Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main Fac	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		
		Su	bject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Credits	Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	# Inter / Intra Faculty	Credits	(Credit Requirement)
	1	1 (6 Credits)	032	1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate
Level 5	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Faculty
	5	1 (6 Credits)	1 (4 Credits)	,		1 (4 Credits)		1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
110	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main Faculty Bachelor Degree
Level 8	8	1 (6 Credits)		1 (4 Credits)				Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	(Research) in Main Faculty
Т	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

Chairperson, Board of Studies Govt. Holkar (Model Autonomous) Science College, Indore



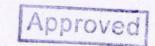
Department of Bioinformatics

Programme Name: B.Sc. (Bioinformatics Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main Fac	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		
		Su	ıbject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Credits	Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	#Inter / Intra Faculty	Credits	(Credit Requirement)
	ĩ	1 (6 Credits)	DSC	1 (6Credits)	1 (4 Credits)	Course	1 (4 Credits)		6+6+4+4=20	(40) Undergraduate Cetrificate in Main
Level 5	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Faculty
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
118	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main Faculty Bachelor Degree
Level 8	8	1 (6 Credits)		1 (4 Credits)				1 Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	(Research) in Main Faculty
Т	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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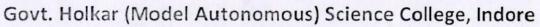
Department of Biotechnology

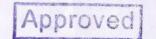
Programme Name: B.Sc. (Biotechnology Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

000		Main Fac	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		
		Su	ibject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Credits	Qualification Title
Level	Semester		Major	Minor	Generic Elective	Vocational Course	Course (AEC)	# Inter / Intra Faculty		(Credit Requirement)
		Core 1	DSE	1	1	Course	1		6+6+4+4=20	(40) Undergraduate
Level 5	1	(6 Credits)		(6Credits)	(4 Credits)		(4 Credits)		0+0+4+4-20	Cetrificate in Main
Level 3	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Faculty
	.5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main Faculty Bachelor Degree
Level 8	8	1 (6 Credits)		1 (4 Credits)				Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	(Research) in Main Faculty
	Total	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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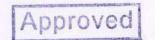
Department of Botany

Programme Name: B.Sc. (Botany Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main Fa	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		
		Su	ıbject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Credits	Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	#Inter / Intra Faculty	Credits	(Credit Requirement
Level 5	1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate
tevers	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Cetrificate in Main Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Facult
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
Level 8	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main Faculty Bachelor Degre
revero	8	1 (6 Credits)		1 (4 Credits)				Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	(Research) in Main Faculty
Т	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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Govt. Holkar (Model Autonomous)
Science College, Indore



Department of Chemistry

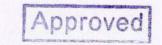
Programme Name: B.Sc. (Chemistry Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main Fac	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /	Frein Tull	
95		Su	ıbject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Credits	Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	# Inter / Intra Faculty	Credits	(Credit Requirement)
Level 5	1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate
Level 5	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Cetrificate in Main Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Faculty
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
Level 8	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)	•			1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(Honours) in Main
Levelo	8	1 (6 Credits)		1 (4 Credits)				1 Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	Faculty Bachelor Degree (Research) in Main Faculty
Т	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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Department of Computer Science
Programme Name: B.Sc. (Computer Science Major)

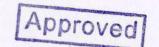
Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main Fac	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		
		Su	ıbject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Credits	Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	# Inter / Intra Faculty		(Credit Requirement)
	1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate Cetrificate in Main
Level 5	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Faculty
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main Faculty Bachelor Degree
Level 8	8	1 (6 Credits)		1 (4 Credits)				Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	(Research) in Main Faculty
1	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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Member Secretary, Academic Council Govt. Holkar (Model Autonomous) Science College, Indore

Chairperson, Board of Studies Govt. Holkar (Model Autonomous)



Department of Economics

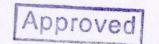
Programme Name: B.Sc. (Economics Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main Fa	culty	(As per	Any Faculty	Skill	41.44	Field Project / Internship /		
		Si	ubject I	Subject II	Subject III	Enhancement	Ability	Apprenticeship /		Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Enhancement Course (AEC)	# Inter / Intra Faculty	Credits	(Credit Requirement
Level 5	1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate
cevers	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Cetrificate in Main Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate Diploma in Main Facult
Level 7	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internebie /	6+4+4+6=20	in Main Faculty
Level 8	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main
	8	1 (6 Credits)		1 (4 Credits)				field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	Faculty Bachelor Degree (Research) in Main Faculty
To	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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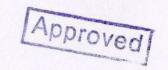


Department of Electronics
Programme Name: B.Sc. (Electronics Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main Fa	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		
		St	ubject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	6 11	Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	#Inter / Intra Faculty	Credits	(Credit Requirement)
Level 5	1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate
Level 5	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Cetrificate in Main Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Facult
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
Level 8	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main
	8	1 (6 Credits)		1 (4 Credits)				1 Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	Faculty Bachelor Degree (Research) in Main Faculty
To	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

Chairperson, Board of Studies Govt. Holkar (Model Autonomous) Science College, Indore



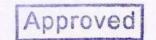
Department of Industial Fish Ans Fishries

Programme Name: B.Sc. (Industial Fish Ans Fishries Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main Fac	ulty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		O UC Title
		Su	bject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Credits	Qualification Title
Level	Semester	Core	Najor DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	# Inter / Intra Faculty		(Credit Requirement)
	1	1 (6 Credits)	DSC	1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate Cetrificate in Main
Level 5	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Facult
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main Faculty Bachelor Degre
Level 8	8	1 (6 Credits)		1 (4 Credits)				Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	(Research) in Main Faculty
	Total	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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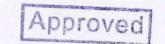
Department of Forensic Science

Programme Name: B.Sc. (Forensic Science Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main F	aculty	(As per	Any Faculty	Skill				
			Subject I	Subject II	Subject III	Enhancement	Ability	Field Project / Internship	/	
Level	Semester		Major	Minor	Generic	Vocational	Enhancement	Apprenticeship /	Credits	Qualification Title
		Core	DSE	WIIIO	Elective	Course	Course (AEC)	# Inter / Intra Faculty	Cicuits	(Credit Requirement
Level 5	1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (1.6 - 17.1		6+6+4+4=20	
	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		(4 Credits)			Cetrificate in Main
Lovel	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (A Goodita)	(4 Credits)		6+6+4+4=20	
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	(4 Credits) 1 (4 Credits)			6+6+4+4=20 6+6+4+4=20	(80) Undergraduate Diploma in Main Facult
Level 7	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) 0 . (
	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship	6+4+4+6=20	(120) Bachelor Degree in Main Faculty
evel 8	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)			F	1 Field Project / Internship / Apprenticeship	5+4+4+6=20	(160) Bachelor Degree (Honours) in Main
	8	1 (6 Credits)		1 (4 Credits)			F	Apprenticeship	6+4+10=20	aculty Bachelor Degree (Research) in Main Faculty
Tot	al	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	(10 Credits) 28 Credits	160 Credits	

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Department of Geography

Programme Name: B.Sc. (Geography Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main Fa	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		
		St	ubject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Credits	Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	# Inter / Intra Faculty	Credits	(Credit Requirement)
	- 1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate
Level 5	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Cetrificate in Main Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Faculty
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
Level 8	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				1 Field Project / Internship Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main Faculty Bachelor Degree
Level 6	8	1 (6 Credits)		1 (4 Credits)				1 Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	(Research) in Main Faculty
Т	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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Chairperson, Board of Studies Govt. Holkar (Model Autonomous) Science College, Indore 1



Department of Geology

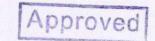
Programme Name: B.Sc. (Geology Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

	PWEEL	Main Fac	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		
		Su	ıbject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Credits	Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	# Inter / Intra Faculty	Credits	(Credit Requirement)
	1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate
Level 5	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Faculty
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
Lovel 9	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main Faculty Bachelor Degree
Level 8	8	1 (6 Credits)		1 (4 Credits)				1 Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	(Research) in Main Faculty
Т	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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Chairperson, Board of Studies Govt. Holkar (Model Autonomous) Science College, Indore 1

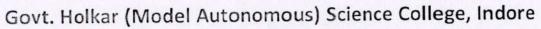


Department of Horticulture

Programme Name: B.Sc. (Horticulture Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

	1957	Main Fac	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		
		Su	ıbject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Credits	Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	#Inter / Intra Faculty	Credits	(Credit Requirement)
	1	1 (6 Credits)	DSE	1 (6Credits)	1 (4 Credits)	Course	1 (4 Credits)		6+6+4+4=20	(40) Undergraduate
Level 5	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Cetrificate in Main Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Faculty
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
Level 8	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main Faculty Bachelor Degree
Levelo	8	1 (6 Credits)		1 (4 Credits)				1 Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	(Research) in Main Faculty
Т	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	



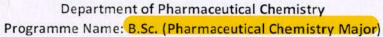


Department of Microbiology
Programme Name: B.Sc. (Microbiology Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main Fac	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		6 F6 F1
		Su	bject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Credits	Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	# Inter / Intra Faculty		(Credit Requirement)
	1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate Cetrificate in Main
Level 5	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Faculty
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					Field Project / Internship Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				Field Project / Internship Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main Faculty Bachelor Degree
Level 8	8	1 (6 Credits)		1 (4 Credits)				Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	(Research) in Main Faculty
7	Total	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

Chairperson, Epard of Studies Govt. Holkar (Model Autonomous) Science College, Indore





Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main Fac	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		
		Su	ıbject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Caralita.	Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	#Inter/Intra Faculty	Credits	(Credit Requirement)
Level 5	1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate
Levers	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Cetrificate in Main Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Faculty
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
Level 8	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main
Levero	8	1 (6 Credits)		1 (4 Credits)				1 Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	Faculty Bachelor Degree (Research) in Main Faculty
Т	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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Chairperson, Board of Studies Govt. Holkar (Model Autonomous) Science College, Indore 0

Department of Physics

Programme Name: B.Sc. (Physics Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main	Faculty (As per p	oreequisite)	Any Faculty	Skill		Field Project / Internship /	T	
		5	iubject l	Subject II	Subject III	Enhancement	Ability	Apprenticeship /		Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Enhancement Course (AEC)	#Inter / Intra Faculty	Credits	(Credit Requirement
Level 5	1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate
	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Cetrificate in Main Faculty
116	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Faculty
Level 7	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
evel 8 -	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				Field Project / Internship /	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main
	8	1 (6 Credits)		1 (4 Credits)				Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	Faculty Bachelor Degree (Research) in Main Faculty
То	tal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

Chairperson, Board of Studies Govt. Holkar (Model Autonomous) Science College, Indore 0

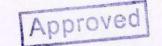
Department of Seed Technology
Programme Name: B.Sc. (Seed Technology Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

		Main	Faculty (As per p	reequisite)	Any Faculty	Skill		Field Project / Internship /		T
		Si	ubject I	Subject II	Subject III	Enhancement Course (SEC)	Ability Enhancement	Apprenticeship / Community engagement and service	Credits	Qualification Title (Crec
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	# Inter / Intra Faculty		Requirement)
Level 5	1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	Course	1 (4 Credits)		6+6+4+4=20	(40)11-1
	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate Cetrificate in Main Facu
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)	(v escure)		6+6+4+4=20	
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate Diploma in Main Faculty
Level 7	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Panhala D
``.	. 6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree in Main Faculty
evel 8	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main Facult
	8	1 (6 Credits)		1 (4 Credits)				Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	Bachelor Degree (Research in Main Faculty
Tot	tal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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Chairperson, Board of Studies
Govt. Holkar (Model Autonomous)
Science College, Indore



Department of Statistics

Programme Name: B.Sc. (Statistics Major)

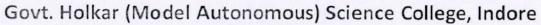
Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

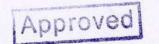
		Main Fac	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		
		Su	bject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Credits	Qualification Title
Level	Semester	Core	Major DSE	Minor	Generic Elective	Vocational Course	Course (AEC)	#Inter / Intra Faculty	Cicaio	(Credit Requirement)
	1	1 (6 Credits)	002	1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	(40) Undergraduate Cetrificate in Main
Level 5	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Facult
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(160) Bachelor Degree (Honours) in Main Faculty Bachelor Degre
Level 8	8	1 (6 Credits)		1 (4 Credits)				Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	(Research) in Main Faculty
Т	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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Chairperson, Board of Studies Govt. Holkar (Model Autonomous) Science College, Indore







Department of Zoology
Programme Name: B.Sc. (Zoology Major)

Structure for Undergraduate Programme (Ordinance 14(A) NEP 2020): UGC CBCS System for Govt. Holkar (Model Autonomous) Science College, Indore

	B William	Main Fa	culty	(As per	Any Faculty	Skill	Ability	Field Project / Internship /		
		Su	ubject I	Subject II	Subject III	Enhancement	Enhancement	Apprenticeship /	Condition	Qualification Title
Level	Semester		Major	Minor	Generic	Vocational	Course (AEC)	# Inter / Intra Faculty	Credits	(Credit Requirement)
DELO UCZ 2 1 1		Core	DSE	W. C. W. C. W. C.	Elective	Course				
Level 5	1	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	
Level 3	2	1 (6 Credits)		1 (6Credits)	1 (4 Credits)		1 (4 Credits)		6+6+4+4=20	Cetrificate in Main Faculty
	3	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	(80) Undergraduate
Level 6	4	1 (6 Credits)		1 (6Credits)	1 (4 Credits)	1 (4 Credits)			6+6+4+4=20	Diploma in Main Facult
	5	1 (6 Credits)	1 (4 Credits)			1 (4 Credits)		Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(120) Bachelor Degree
Level 7	6	1 (6 Credits)	2 (4 Credits) + (4 Credits)					1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	in Main Faculty
Level 8	7	1 (6 Credits)	1 (4 Credits)	1 Research Methodology (4 Credits)				1 Field Project / Internship / Apprenticeship (6 Credits)	6+4+4+6=20	(Honours) in Main
LEVEL O	8	1 (6 Credits)		1 (4 Credits)				1 Field Project / Internship / Apprenticeship (10 Credits)	6+4+10=20	Faculty Bachelor Degree (Research) in Main Faculty
Т	otal	48 Credits	16 Credits	32 Credits	16 Credits	12 Credits	08 Credits	28 Credits	160 Credits	

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Chairperson, Board of Studies
Govt. Holkar (Model Autonomous)
Science College, Indore

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Department of Biochemistry Syllabus Session 2020-2021

Approved

Progra	mme: B.Sc.							Class: II	I Year
Danau		Danas		1	heory			Prac	ctical
Paper No.	Title	Paper code	External	Min	CCE	Min	Total Min	Max	Min
I	Molecular Biology	301-I	40	28	10	5	33	50	17
П	Nutrional, clinical and Environmental Biochemistry	301-II	40	20	10	5	33	20	
-	INTERNSHIP	(m)	Exte	rnal (50	M= 100	arks) + I	nternal(50Marks	;)

Coordinator, Board of Studies Govt. Holkar (Model Autonomous) Science College, Indore

BCA PART VI Semester Academic Year: 2021-2022 Course of studies for the BCA – VI Semester

BCA - VI Semester Course

SCHEME OF MARKS

	Theory l	Max. Marks	Practical Max.	Max. Marks	Min. Marks
Course	Internal	External	Marks	Marks	Trans.
BCA – 601 Operations Research	15	85		100	5 + 28
BCA -602 Internet and Web Technology using PHP	15	85		100	5 + 28
BCA -603 Computer Graphics and Multimedia	15	85		100	5 + 28
BCA -604 Principal and Practices of Management	15	85		100	5 + 28
BCA -605 Project	40	60		100	33
BCA -606 Computer Graphics and Multimedia LAB			50	50	17
BCA -607 Practical on Internet and Web Technology using PHP			50	50	17
Total Marks	100	400	100	600	

HEAD

Department of Computer Science Govt. Holkar Science College, INDORE (M.P.)

BCA, Department of Computer Science, GHSC, Indore

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Department of Biochemistry

Syllabus Session 2021-22

-	ramme: M	.50.						Class:	IV sem	ester
6. 0.	Paper	Course Title	Course Code	Credits	CCE (Max)	CCE (Min)	External Assessment (Max.)	External Assessment (Min.)	Total (Max)	Total (Min.
1	Core 11	Molecular Biology	BC-41	4	25	9	75	26	100	35
2	Core 12	Metabolism II	BC-42	4	25	9	75	26	100	35
3	Core 13	Applied Clinical Biochemistry	BC-43	4	25	9	75	26	100	35
1	Elective 3/1	Immunology	BC-44-A							
i	Elective 3/2	Environmental Biochemistry	BC-44-B	4	25	0	75	26	100	35
)	Practical 7	Based on Theory paper 11& 12	PR-BC-41	3			75	26	75	26
7	Practical 8	Based on Theory paper 3/1& 3/2 (elective)	PR-BC-42	3			75	26	75	26
-	Internship	9		4	50		50		100	
	1.	Total		26	150	2	500		650	

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GOVT. HOLKAR (MODEL. AUTONOMOUS) SCIENCE COLLEGE. INDORE DEPARTMENT OF BIOTECHNOLOGY

Syllabus Session: 2021-22

Programme: MSc. (Biotechnology)

Class: M.Sc. IV Sem

S. No	Paper	Course Title	Course Code	Credi ts	CCE (Max)	CCE (Min)	Externa 1 Assess ments Max	External Assessmen ts Min	Total Max	Total Min
1		aper XIV					,	26		
	Core 11	Bioprocess Technology	BT-41	4	25	9	75		100	35
2		aper -XV						26		
	Core 12	Animal Biotechnology	BT-42	4	25	9	. 75		100	35
3 *	Elective 3/1	aper XVI) Cancer Genetics						26		
	Elective 3/2	B) Bio nanotechnology	BT-43	4	25	9	75		100	. 35
4		aper XVII						26		
	Elective 4/1) Genomics. Proteomics. IPR &Biosafety	BT-44	4	25	9	75		100	35
	Elective 4/2	B) Engineering Principles/Project								
5	Practical -7	Practical based on Theory Paper -XIV & XV	PRBT-	3	-		75		75	26
6	D 2 1 2	ractical based on						74	n.c	
	Practical-8	lective Theory Paper	PRBT- 42	3	-	(=)	75		75	26
		VI &XVII								
7	Internship			4	-	-	*	-	-	*
				26	125		525		650	

S.No.	Name	Designation	Signature
1	Dr. Kiran Billore	Chairman	W
2	Dr. A. Nighojkar	VC Member	0
3	Dr. Bhavesh Patel	Subject Expert	
4 .	Dr. R K Garg	Subject Expert	
5	Mr. Nitesh Jasani	Representative from Industry	Museum
6	Dr. Rekha Sharma	Member	
7	Mrs. Farida Johar	Alumni	D/

_		Govt. Holka		of Depa			ge, maore			
				abus Ses						
	F	Programme :M.Sc. Bo		anus ses	51011 202		Class :M.Sc.	IV Sem.		
					CCE	CCE	External	External	total	Total
Sn.No	Paper	Course Title	Course Code	Credits	(Max)	(Minimum)	Assessment	Assessment	Max	Mini
							Max.	mini		
1	Core 1	Plant Cell, Tissue & Organ Culture	BO41	4	25	9	75	26	100	35
2	Core 2	Biotechnology & Genetic Engineering	BO42	4	25	9	75	26	100	35
		Paper III-A Elective 3: Plant Pathology	BO43-1					26	100	35
3	Core 3	Paper III-B Elective 3: Plants & Society	BO43-II	4	25	9	75	26	100	35
		Paper IV-A Elective 4: Industrial Microbiology	BO44-1	4	25	9	75	26	100	35
4	Core 4	Paper IV-& Elective 4: Pollution Ecology	BO44-II	4	25	9	75	20	100	23
		* Project / Applied Botany							100	35
5	Practical 1	Practical based on Theory paper 1 & 2)		3	1		75		75	26
6	Practical 2	Practical based on Theory paper 3 & 4		3			75		75	26
7	Internship						50	50	100	9
				24	100		500		500	

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			Govt. Holkar	(Model, A	utonomou	s) Science	e College, Indore (M.	P.)		
_				De	m.Sc. IV s	of Chemis	try			
			4000000	Sylla	bus Sessi	on 2021-2	022			
S.No	Paper	Course Title	Course Code	Credits	CCE (max)	CCE (min)	External	External	Total	Tota
01	Core 12	Application of Spectroscopy-II	CH-41	4	25	9	Assessment Max 75	Assessment Min	Max	Min
02	Core 13	Solid State	CH-42	4	25	0		20	100	35
03	Core 14	Biochemistry	CH-43		765723	9	75	26	100	35
	er.		Cn-43	4	25	9	75	26	100	35
	Elective-I	Applied Analytical Chemistry	CH-44-A					1000	100	33
	Elective-II	Medicinal Chemistry	CH-34-B							
04	Elective-III	Organic Synthesis	CH-34-C	4	25	9	75	26	100	0.5
	Elective-IV	Electrochemistry	CH-44-D					20	100	35
	Elective- V	Chem-informatics	CH-44-E							
05	Practical- 10	Inorganic Chemistry		2			50		2.00	
06	Practical 11	Organic Chemistry		2			50		50	17
07	Practical 12	Physical Chemistry		2					50	17
08	Internship						50		50	17
	dimen			4						
				26	125		525		650	





DEPARTMENT OF COMPUTER SCIENCE

M.Sc. Computer Science

Academic Year 2021-2022

Govt. Holkar (Model Autonomous) Science College, Indore

Computer Science Department

Syllabus Session 2021-22

⊋rogramme:	M.Sc.	Computer	Science	Class:M.Sc.	IV	Sem.

No.	Paper	Course Title	Course Code	Credits	CCE (Max)	CCE (Min.)	External Assessment Max	External Assessment Min.	Total Max	Total Min.
1	Core 11	System Analysis And Design	CS41	4	25	9	75	26	100	35
١	Core 12	Design and Analysis of Algorithms	CS42	4	25	9	75	26	100	35
) 	Elective 3/1	Internets and Web Technology	CS43 – A	- 4	25	9	75	24	100	25
ا. ا	Elective 3/2	Computer Graphics & Multimedia	CS43 - B	1.4	25	9	75	26	100	35
	Elective 4/1	Compiler Design	CS44- A	4	25	9	75	26	100	35
J.	Elective 4/2	Python for Data Science	CS 44- B		23		13	20	100	
	Practical 7	Practical based on Theory paper 11 & 12		3	1000		75			26
	Practical 8	Practical based on Theory Paper 3 & 4 (Elective)		3			75	Departm	2 and 10	26 AD
1	Internship			4				Govt. He	Ukar s WOOR	Computer S Clence Co E (M.P.)
				26	100		500		600	

GOVT. HOLKAR (MODEL AUTONOMOUS) SCIENCE COLLEGE, INDORE DEPARTMENT OF INDUSTRIAL FISH AND FISHERIES Syllabus Session : 2021-22

gramme. wi.e	Sc. (FISHERIES)		01	ass : M.Sc	nination So	ala ama
	The state of the s	Teaching		Exar	nination So	eneme
Code	Theory/Practical	Hours/Week	Credit	External	Internal	Tota
Core -11	Paper -14: Fish Genetics And Biotechnology	4	4	75	25	100
Core -12	Paper -15 Fish Nutrition and Feed Technology	4	4	75	25	100
	Paper -16: (Elective -3) Fish Health Management	4	4	75	25	100
Elective - 3	Paper -16: (Elective -3) Fishery technology and Fish pathology	4	4	75	25	100
	Paper -17: (Elective -4) Nutritional Management in Aquaculture	4	4	75	25	100
Elective - 4	Paper -17: (Elective -4) Fisheries Economics and Extension	4	4	75	25	100
Practical- 7	Practical (Based on Theory Paper 14 & 15)	6	3	75	(e.	75
Practical- 8	Practical (Based on Theory Paper 15 & 16)	6	3	75	1.15	75
Internship		4	4	50	50	100
		32	26	-	-	650

(Dr.Lata Bhattarcharya) Subject Expert

(Dr.Ruchira Choudhary) Subject Expert

Total

leuli biarai (Dr. Kirti Tiwari) VC Member

P. whody (Dr. Pratima Khatri) Industrial Member

100

100

Rola (Dr. Rekha Sharma) Chairman & Head

(Mr. Mohit Rathore) Student representative

DEPARTMENT OF FORENSIC SCIENCE SESSION-2021-22

_		Govi. noi	Den	artment	of Forens	ic Science	ege, Indore (M.P.			
				M.Sc.	IV semes	ter				
			S	yllabus S	ession 20	21-2022				
S.no	Paper	Course Title	Course Code	Credits	CCE (max)	CCE (min)	External Assessment Max	External Assessment Min	Total Max	Tota Min
01	Core 11	Forensic Physics	FS-41	4	25	9	75	26	100	35
02	Core 12	Applied Forensic Science and Scientific Investigation of crime	FS-42	4	25	9	75	26	100	35
03	Elective-I	Emerging trends in forensic science	FS-43-A	4	25		75	26	100	35
	Elective-II	Forensic Psychology	FS-43-B						-	-
	Elective-III	Biometrics	FS-44-A							
04	Elective-IV	Computer and Cyber Forensic OR Project	FS-44-B	4	25		75	26	100	35
05	Practical-09	Based on Theory Paper 11 & 12	PRFS-41	3			75		75	26
06	Practical-10	Based on Theory Elective Paper	PRFS-42	3			75		75	26
08	Internship			4					100	
				26		-			650	

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Govt. Holkar (Model Autonomous) Science College, Indore Name of Department

Syllabus Session 2021-22

	Pro	gramme <mark>(M.Sc.(Subject)</mark>	Geology	7			Class	:M.Sc IV S	Sem	
Sn.No	Paper	Course Title	Course Code	Credits	CCF (Max)	CCE (Minimum)	External Assessment Max.	External Assessment mini	total Max	Total Mini
1	core 11	Ore Geology .	G-41	4	25	9	75	26	100	35
2	core 12	Applied Geology .	G-42	4	25	9	75	26	100	35
3	elective 3/1	Environmental Geology (Elective - 3)	G-43A						9833	
,	elective 3/2	Mineral Processing and Technology (Elective - 3)	G-43B	4	25	9	75	26	100	35
4	eletive 4/1	Fuel Geology (Elective - 4)	G-44A	4	25	9				
27	elective4/2	Project in House (Elective - 4)	G-44B	4	25	9	75	26	100	35
6	Practical-7	Field work and practical of Applied and Ore Geology		3			75		75	26
7	Practical-8	Environmental Geology/Mineral Processing Technology/Fuel Geology		3			75		75	25
8	Internship			4						
				26	125		525	0	650	

		Govt. Holkar (Model,	partment of	Microbiol	ogy					
		Sy	llabus Sessi	on 2021-20)22				Par - Charles Hunt	- 1200
		100						Class: M.		
Prog S.N.	Paper	Sc. Microbiology Course Title	Course Code	Credits	CCE (Max)	CCE (Min.)	External assessment Max.	External assessment Min.	Total Max	Total Mini.
1)			MB-41	4	25	9	75	26	100	35
1	Core 11	Food and Dairy Microbiology	MB-42	4	25	9	75	26	100	35
2	Core 12	Environmental Microbiology	MB-43 A	4	25	9	75	26	100	35
3	Elective 3/1	Pharmaceutical Microbiology		4	ME.					
	Elective 3/2	Biosafety and IPR Issues	MB-43 B	-	25	9	75	26	100	35
4	Elective 4/1	Bio-Nanotechnology	MB-44 A	4	25	-		1		
	Elective 4/2	Cell Biology	MB-44 B		_		75		75	26
5	Practical -7	Lab. Course-7	PRMB-41	3			75		75	26
6	Practical -8	Lab. Course-8	PRMB-42	3	*******		1.5	26	100	35
7	Internship	Pathology Laboratories, Pharmaceutical industry, Hospitals, Sanchi dugdh Sahkari Maryadit Sangh, Indore, National research center for soyabean (NRCS), Schools & Coaching		4	25	09	75			1.54
		Institutes, Biofertilizer Industry	Total	26	125		525		650	

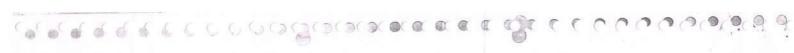
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Govt. Holkar (Model Autonomous) Science College, Indore Name of Department - Pharmaceutical Chemistry Syllabus Session 2021 -22

Programme : M.Sc. (Subject) Pharmaceutical Chemistry
Class : M.Sc. IV Sem.

or. No	Paper	Course Title	Course Code	Credits	CCE (Max)	CCE (Minimum)	External Assessment Max.	External Assessment mini	Total Max	Total Mini
1	Core 11	Advanced Medicinal Chemistry	PC-41	4	25	9	75	26	100	35
2	Core 12	Modern Analytical Techniques	PC-42	4	25	9	75	26	100	35
	Elective 3/1	Drug Design	PC-43-A	4	25	9	75	26	100	35
3	Elective 3/2	Pharmacology	PC-43-B	. 4	23	2	75	20	100	
4	Elective 4/1	Biopharmaceutics And Pharmacokinetics	PC-44-A	4	25	9	75	26	100	35
-7	Elective 4/2	Applied Pharmaceutics - II	PC-44-B							
5	Practical - 7		PRPC-41	3		1555	75		75	26
6	Practical - 8		PRPC-42	3	***		75		75	26
7	Internship	***	***	4	25	9	75	26	100	35
		Settle:	***	26	125		525		650	

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GOVERNMENT HOLK AR (MODEL-AUTONOMOUS) SCIENCE COLLEGE, INDORE (M.P)
- DEPARTMENT OF PHYSICS

SYLLABUS 2021-22

Scheme

Programme :M.Sc. PHYSICS

Class : M.Sc IV Semester

S. No	Paper	Course Title	Course Code	Credits	CCE (Max)	CCE (Minimum)	External Assessment Max.	External Assessment mini	total Max	Total Mini
1	Core 13	Condensed Matter Physics-II	PH 41	4	25	9	75	26	100	35
2	Core 14	Laser Physics	PH 42	4	25	9	75	26	100	35
	Elective 1	Computer Programming and Informatics	PH 43 A	4	25	9	75	26	100	35
3	Elective 2	Computational Methods and Programming	PH 43B							
	Elective 3	Communication Electronics	PH 44 A	4	25	9	75	26	100	35
4	Elective 4	Renewable Energy Resources	PH 44B							200
6	Practical-7	General Physics	PH 45	3			75		75	26
		Electronics Physics	PH 46A				75		75	26
7	Practical-8	Renewable Energy Resources	PH 46 B	3			10		7,00	
8	Int	ernship/Project	PH 47	4						
		Total .		26	125		525		650	

Note: Paper 3: Choice Elective 1 O: Elective 2
Paper 4: Choice Elective 3 Or Elective 4, Practical 8 Choice: if Elective 3 PH44A then PH46A. Practical 8 Choice: if Elective 4 PH44 B then PH46 B

Name of Department Seed Technology

Syllabus Session 2022-2023

Approved

Drogr	amme ·N	1.Sc. seed Tecl	hnology				Cla	ss:M.S	c. IV S	Sem.
rrogi	amme .tr	i.bc. seed Tee.	5,0		CCE	CCE	External	Externa 1	total	Total
Sn.No	Paper	Course Title	Course Code	Credits	(Max)	(Minim um)	Assessme	Assess	Max	Mini
			(8)				Max.	mini		
1	Core 1	Seed Marketing & Management	SE 41	4	25	9	75	26	100	35
2	Core 2	Statistic And Computer Application in Agriculture	SE 42	4	25	9	75	26	100	35
		Nursery	SE 43					į.		
3	Core 3	management and plant propagation		4	25	9	75	26	100	35
4	Core 4	Organic Farming and soil management	SE 44	4	25	9	75	26	100	35
5	Practical 1	Practical based on Theory paper 1 & 2)		3			75	- 12 - 12	75	26
6	Practical 2	Practical based on Theory paper 3 & 4		3			75		75	26
7	Internsh		0.00			1	50	50	100	9
	1			24	100	36	500	154	650	

Coordinator, Board of Studies Govt. Holkar (Model Autonomous) Science College, Indore

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		Gov	t. Holkar	(Model A	utonomo	us) Science Co	llege, Indore			
				Name of	Departm	ent-Statistics				
				Syllab	us Sessio	n: 2021-22				
Prog	gramm <mark>e: M.Sc.</mark>			Sub	ject <mark>: Stat</mark>	tistics			Class:	M.Sc. IV Sen
Sr. No.	Paper	Course Title	Course Code	Credits	CCE (Max)	CCE (Minimum)	External Assessment Max.	External Assessment Mini.	Total Max.	Total Mini.
1	Core 11	Design of Experiments	S-41	4	25	9	75	26	100	35
2	Core 12	Statistical Quality Control	S-42	4	25	9	75	26	100	35
3	Elective 3/1	Advanced Operation Research	S-43-A	4	4 25	9	75	26	100	35
	Elective 3/2	Official Statistics	S-43-B							
20	Elective 4/1	Econometrics	S-44-A	4	7 25	25 9	75	26	100	35
4	Elective 4/2	Stochastic Processes	S-44-B	"	23	- 7				
5	Practical - 7	Practical based on paper 13 & 14	PRS-41	4	25	9	75		100	35
6	Practical - 8	Practical based on paper 15 & 16	PRS-42	3			75	222	75	26
7	Internship		***	3	***	777	75		75	26
			222	26	125	***	525	100	650	

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Govt. Holkar (Model Autonomous) Science College, Indore Name of Department - Zoology Syllabus Session 2021 -22 Programme (M.Sc. (Subject) Zoology

		Pre	ogramme : M.S			gy	(lass : M.Sc. I	V Sem.	
Sr. No	Paper	Course Title	Course Code	Credits	CCE (Max)	CCE (Minimum)	External Assessment Max.	External Assessment mini	Total Max	Total Mini
1	Core 11	ANIMAL BEHAVIOUR AND NEUROPHYSIOLOGY	ZO41	4	25	9	75	26	100	35
2	Core 12	Gamete Biology, Development and Differentiation	ZO42	4	25	9	75	26	100	35
3	Elective 3/1	Ichthyology (Fish Structure and Functions)	ZO43A	4	25	9	75	26	100	35
	Elective 3/2	Biology of Parasites	ZO43B							
4	Elective 4/1	Pisci Culture and Economic Importance of Fishes	ZO44A	4	25	9	75	26	100	35
	Elective 4/2	Cell Biology	ZO44B							
5	Practical - 7	Based on Theory Paper IVX & XV	PRZO41	3			75		75	26
6	Practical - 8	Based on Theory Paper XVI & XVII	PRZO42	3			75		75	26
7	Internship			4						
				26	125		525		650	

DEPARTMENT OF COMPUTER SCIENCE

PGDCA

Academic Year 2021-2022

Govt. Holkar (Model Autonomous) Science College, Indore

Computer Science Department

Syllabus Session 2021-22

Pro	gramme:	PCDCA						Class :PG	DCA I	I Sem.
S.No	Paper	Course Title	Course Code	Credits	CCE (Max)	CCE (Min.)	External Assessment Max.	External Assessment Min.	Total Max.	Total Min.
1	Core 6	Web Designing (HTML.XML, DHTML)	PGDCA- 21	4	25	9	75	26.	100	35
2	Core 7	Visual Basic	PGDCA- 22	4	25	9	75	26	100	35
3	Core 8	RDBMS using Oracle	PGDCA- 23	4	25	9	75	26	100	35
4	Core 9	Computer Networking	PGDCA- 24	4	25	9	75	26	100	35
5	Core 10	Internet & E- Commerce	PGDČA- 25	4	25	9	75	26	100	35
6	· Project 2	Software Project Phase II		4			100			35
				24	125		475		600	

Department of Computer Science Govt. Holker Science College

PGDCA, Department of Computer Science, GHSC, Indore

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Indore

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M. Sc . (Mathematics) SEMESTER-III

			Teachi	Examination scheme					
Code	Theory /Practical	h	ours/ veek	Credit	Internal	25 25 25 25 25	Total		
Core 11 / Paper 11	Functional Analysis-I		6	4	75	25	100		
Core 12 / Paper 12	Advanced Special Functions-I		6	4	75	25	100		
Elective 1 :	Advanced Fuzzy Mathematics-I		6	4	75		100		
Paper13	Advanced Graph Theo	ry-I		0					
	Operations Research-			4	75	25 25 25 25 25			
Elective 2:	Or		6				100		
Paper 14	Theory of Linear Operators-I								
	Analytic Number The	ory-I		4	75	25			
Elective 3:	Or		6				100		
Paper 15	Integral Transform-I			1.			H		
Open Elective : Paper 16	Mathematical Modelin	ng	6	4	75	25	100		
External - III	Comprehensive viva	voce	3	2	50		50		
Comprehensiv	Comprehensive viva		3	2	50	-	700		
Total			42	28			700		

M. Sc. (Mathematics) SEMESTER-IV

		- 125	Teaching	Examination scheme					
Code	Theory /Practical		hours/ week	Credit	Internal	External	Total		
Core 13/Paper	Functional Analysis-l	ı	6	4.	75	25	100		
Core 14/Paper	Advanced Special Functions-II		6	4	75	25	100		
Elective 4 :	Advanced Fuzzy Mathematics-II		6	4	, 75	25 25 25 25 25 25	100		
Paper 19	Advanced Graph The	ory-II							
	Operations Research	n-II		4	75	25	100		
Elective 5:	Or	3.	6						
Paper20	Theory of Linear Operators-II	NI.							
1	Analytic Number Th	eory-II					100		
Elective 6:	Or		6	4	75	25	100		
Paper21	Integral Transform-	11				50	100		
Internship	Job Oriented Project	t	6	4	50_	30	600		
Total			36	24		_	2500		
Grand Total			208	100		Li- De-la			

Minimum Passing marks will be 35% in each Theory, Practical, External, Internship, Project.

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