



ST. ALOYSIUS' COLLEGE

AUTONOMOUS
JABALPUR- 482001
MADHYA PRADESH, INDIA

CRITERION-1



CURRICULAR ASPECTS

Key Indicator – 1.3
Curriculum Enrichment

Metric No.: 1.3.3

**Percentage of programmes that have components of
Field projects / Research projects / Internships during
the last five years.**

Document Name

**Course Structure of Programmes having element of
Field projects / Research projects / Internships
2023-24**



**COURSE STRUCTURE OF
PROGRAMMES HAVING
COMPONENTS OF FIELD
PROJECT/RESEARCH
PROJECT/INTERNSHIP**

2023-24

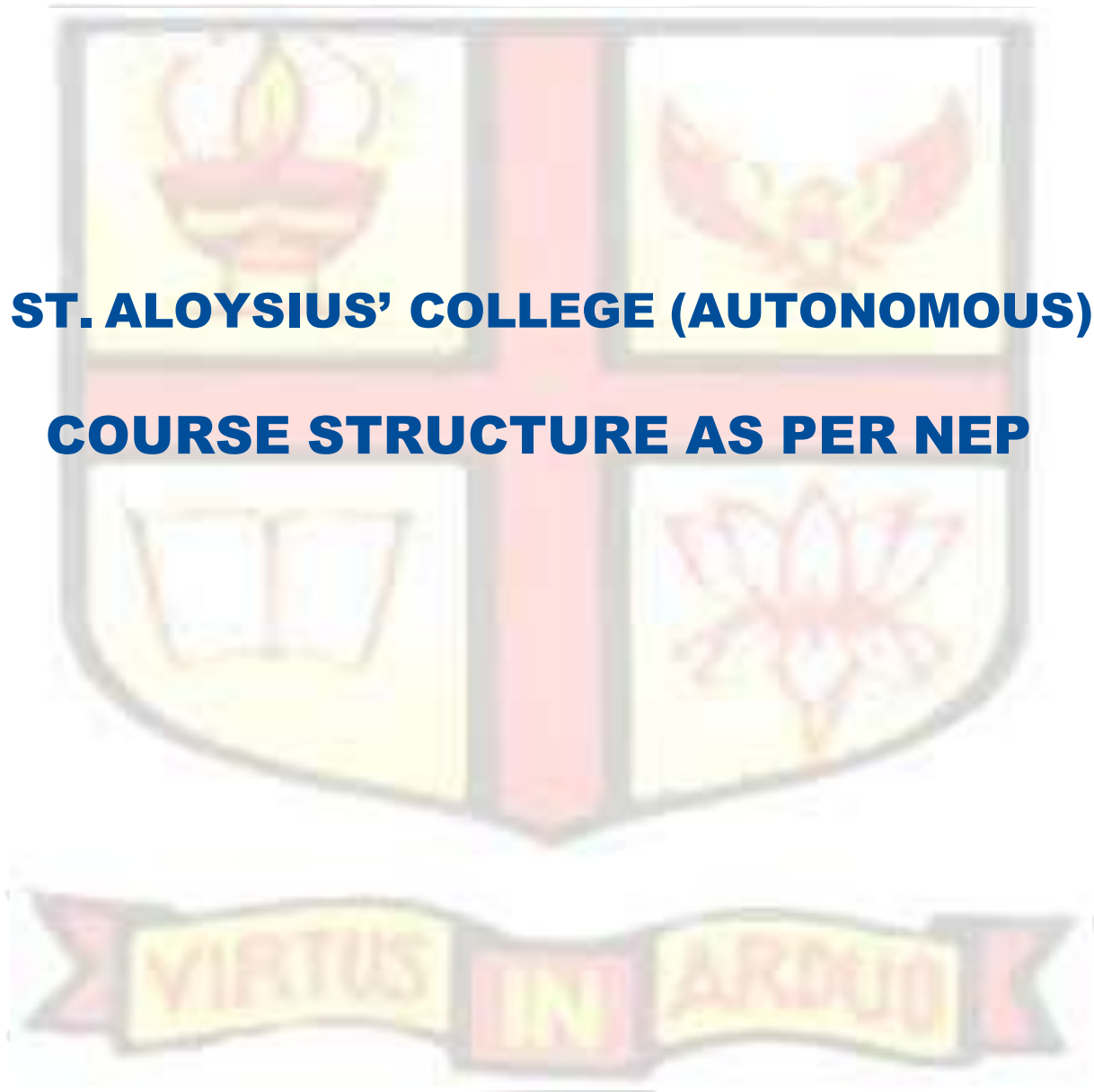
**NEP COURSE STRUCTURE
AS PER
M.P. HIGHER EDUCATION
ORDINANCE 14A & 14B**



13.11 Table-2: Proposed Structure for Undergraduate Programme: UGC CBCS System for Universities /Autonomous Colleges

Level	Semester	Main Faculty (as per prerequisite)		Any Faculty	Skill Enhancement Course (SEC)	Ability Enhancement Course (AEC)	Field projects/ internship/ apprenticeship/ community engagement and service	Credits	Qualification title (Credit requirement)
		Subject I		Subject II	Subject III	Vocational Course	# Inter/Intra Faculty		
		Major		Minor					
		Core	DSE						
Level 5	1	1 (6 Credits)		1 (6 Credits)	1 (4 Credits)		1 (4 Credits)	6+6+4+4 =20	(40) Undergraduate Certificate in Main Faculty
	2	1 (6 Credits)		1 (6 Credits)	1 (4 Credits)		1 (4 Credits)	6+6+4+4 =20	
Level 6	3	1 (6 Credits)		1 (6 Credits)	1 (4 Credits)	1 (4 Credits)		6+6+4+4 =20	(80) Undergraduate Diploma in Main Faculty
	4	1 (6 Credits)		1 (6 Credits)	1 (4 Credits)	1 (4 Credits)		6+6+4+4 =20	
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 in Main Faculty
	6	1 (6 Credits)	2 (4 credits) + (4 credits)				1 Field project/internship/ apprenticeship (6 Credits)	6+4+4+6 =20	
Level 8	7	1 (6 Credits)	1 (4 credits)	1 Research Methodology (4 Credits)			1 Field project/internship/ Apprenticeship or Research Project (6 Credits)	6+4+4+6 =20	(160) Bachelor Degree (Honours) in Main faculty <i>Bachelor Degree (Research) in Main faculty</i>
	8	1 (6 Credits)		1 (4 Credits)			1 Field project/ internship/ Apprenticeship or Research Project (10 Credits)	6+4 +10 =20	
Total		48 credits	16 credits	32 credits	16 credits	12 Credits	08 Credits	28 Credits	160 Credits

ST. ALOYSIUS' COLLEGE (AUTONOMOUS)
COURSE STRUCTURE AS PER NEP





ST. ALOYSIUS' COLLEGE

(AUTONOMOUS)

1, Ahilya Bai Marg, Sadar, Cantt., Jabalpur - 482 001 (M.P.), India

College with Potential for Excellence by UGC

DST FIST SUPPORTED & Star College Scheme by DBT

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2023-24

Programme and Course structures with credit framework of Programmes having **Components of Field Project/ Research Projects /Internships duly Approved by Respective Board of Studies, Approved by Academic council duly signed by the chairman of Academic Council.**

1. Bachelor of Arts
2. Bachelor of Science
3. Bachelor of Commerce
4. Bachelor of Computer Application
5. Bachelor of Business Administration
6. Master of Arts in Economics
7. Master of Arts in English Literature
8. Master of Arts in Political science
9. Master of Science in Physics
10. Master of Science in Microbiology
11. Master of Science in Zoology
12. Master of Science in Chemistry
13. Master of Science in Computer Science
14. Master of Science in Biotechnology
15. Master of Commerce
16. Doctor of Philosophy (PhD) in Physics
17. Doctor of Philosophy (PhD) in Chemistry
18. Doctor of Philosophy (PhD) in Economics
19. Doctor of Philosophy (PhD) in Mathematics
20. Doctor of Philosophy (PhD) in Commerce

PRINCIPAL
St. Aloysius College (Autonomous)
JABALPUR - 482001 (M.P.)
INDIA

Chairman

Academic Council

St. Aloysius' College (Autonomous), Jabalpur

UNDERGRADUATE PROGRAMMES



BACHELOR OF ARTS



COURSE STRUCTURE -III YEAR (2023-24)

			SUBJECT CODES			Max	Min	Credit	
			TH(1)	INTERNAL (2)	PR(3)				
BA									
Foundation Course (Compulsory)	FC-I	Bhasha aur Sanskruti	113011			50	17	2	
		English Language and Communication Skills	113021			50	17	2	
	FC-II	Personality Development and Character Building	113031			50	17	2	
		Digital Awareness - Cyber Security	113041			50	17	2	
Economics	GROUP A	MAJOR-I	Economics of Growth and Development	113051	113052				
	GROUP B		Mathematics for Economics	113061	113062	100	33	6	
	GROUP A	MAJOR-II	Statistics	113071	113072	100	33	6	
	GROUP B		Elementary Econometrics	113081	113082	100	33	6	
	MINOR/ELECTIVE		Gender Economics	113091	113092		100	33	6
Political Science	GROUP A	MAJOR-I	India's Foreign Policy	113101	113102				
	GROUP B		Comparative World Constitution	113111	113112	100	33	6	
	GROUP A	MAJOR-II	Public Administration	113121	113122	100	33	6	
	GROUP B		International Relations and Contemporary Issues	113131	113132	100	33	6	
	MINOR/ELECTIVE		State Politics in India	113141	113142		100	33	6
English Literature		MAJOR-I	English Language: Structure and Translation	113151	113152	113153	100	33	6
		MAJOR-II	Indian Diaspora Literature	113161	113162	113163	100	33	6
	MINOR/ELECTIVE		Indian English Poetry and Drama	113171	113172	113173	100	33	6
Functional English		ELECTIVE	Language & Technology	113181	113182		100	33	6
History		MAJOR-I	Main Currents of World History (From 1453 To 1870 CE)	113191	113192		100	33	6
		MAJOR-II	Main Currents of World History (From 1871 To 1950 CE)	113201	113202		100	33	6
	MINOR/ELECTIVE		History of Freedom Movement in Madhya Pradesh (1836-1947 CE)	113211	113212		100	33	6
Computer Application		MINOR/ELECTIVE	Internet and its Applications	113221	113222	113223	100	33	6
	GROUP A	MAJOR-I	Kavyang Vivechan evam Janapadeey Bhasha-sahitya (Bundelie /Malavie/Baghelie)	113231	113232		100	33	6
	GROUP B		Rashtreey Kavy Dhara	113241	113242		100	33	6

Hindi Literature	GROUP A	MAJOR-II	Janasanchar Madhyam : Siddhant aur Anuprayog	113251	113252	100	33	6	
	GROUP B		Hindi Aalochana	113261	113262	100	33	6	
		MINOR/ELECTIVE	Lok Sahitya evam Lok Sanskriti	113271	113272	100	33	6	
Functional Hindi		MINOR/ELECTIVE	Sambhashan Kala	113281	113282	100	33	6	
Internship/Field Project					813202	813203	100	33	6



BACHELOR OF SCIENCE



SUBJECT CODES - III YEAR (2023-24)									
BSC			SUBJECT CODES			Max	Min	Credit	
			TH(1)	INTERNAL(2)	PR(3)				
Foundation Course (Compulsory)	FC-I	Bhasha aur Sanskruti	213011			50	17	2	
		English Language and Communication Skills	213021			50	17	2	
	FC-II	Personality Development and Character Building	213031			50	17	2	
		Digital Awareness - Cyber Security	213041			50	17	2	
Economics	MINOR/ELECTIVE	Gender Economics	213051	213052		100	33	6	
Chemistry	MAJOR-I	Instrumental Techniques in Chemistry	213061	213062	213063	100	33	6	
	MAJOR-II	Bio physical, Bio inorganic and Organo metallic chemistry	213071	213072	213073	100	33	6	
	MINOR/ELECTIVE	Pharmaceutical Chemistry	213081	213082	213083	100	33	6	
Biotechnology	GROUP A	MAJOR-I	Industrial Biotechnology	213091	213092	213093	100	33	6
	GROUP B		Environmental Biotechnology	213101	213102	213103	100	33	6
	GROUP A	MAJOR-II	Agriculture Biotechnology	213111	213112	213113	100	33	6
	GROUP B		Bioinformatics	213121	213122	213123	100	33	6
Zoology	GROUP A	MAJOR-I	Aquaculture	213131	213132	213133	100	33	6
	GROUP B		Insect Taxonomy and Applied Entomology	213141	213142	213143	100	33	6
	GROUP A	MAJOR-II	Wild Life Conservation and Management	213151	213152	213153	100	33	6
	GROUP B		Ecology, Biodiversity and Evolution	213161	213162	213163	100	33	6
		MINOR/ELECTIVE	Genetics	213171	213172	213173	100	33	6
Botany	MINOR/ELECTIVE	Ethnobotany	213181	213182	213183	100	33	6	
Industrial Microbiology	MAJOR-I	Molecular Biology and Genetics of Microbes	213191	213192	213193	100	33	6	
	MAJOR-II	Environmental Microbiology and Bioremediation	213201	213202	213203	100	33	6	
Mathematics	MAJOR-I	Numerical Methods & Scientific Computation	213211	213212		100	33	6	
	MAJOR-II	Elements of Discrete Mathematics	213221	213222		100	33	6	
	MINOR/ELECTIVE	Fundamentals of Boolean Algebra	213231	213232		100	33	6	
Physics	MAJOR-I	Quantum Mechanics, Atomic and Molecular Physics	213241	213242	213243	100	33	6	
	MAJOR-II	Solid State Physics and Electronics	213251	213252	213253	100	33	6	
	MINOR/ELECTIVE	Quantum Mechanics, Solid State Physics and Devices	213261	213262	213263	100	33	6	
Computer Science	GROUP A	MAJOR-I	Operating System	213271	213272	213273	100	33	6
	GROUP B		PHP with MySQL	213281	213282	213283	100	33	6
	GROUP A	MAJOR-II	Programming with Python	213291	213292	213293	100	33	6
	GROUP B		Cloud Computing	213301	213302	213303	100	33	6
		MINOR/ELECTIVE	Data Analysis and Visualization with Python	213311	213312	213313	100	33	6
Internship/Field Project				813202	813203			4	

BACHELOR OF COMMERCE



SUBJECT CODES - III YEAR (2023-24)

BCOM			SUBJECT CODES			Max	Min	Credit
			TH(1)	CCE(2)	PR(3)			
Foundation Course (Compulsory)	FC-I	Bhasha aur Sanskruti	313011			50	17	2
		English Language and Communication Skills	313021			50	17	2
	FC-II	Personality Development and Character Building	313031			50	17	2
		Digital Awareness - Cyber Security	313041			50	17	2
Major-I	GROUP A	Income Tax Law and Practice	313051	313052		100	33	6
	GROUP B	Marketing Management	313061	313062		100	33	6
	GROUP C	Financial Management	313071	313072		100	33	6
Major-II	GROUP A	Goods and Service Tax & Custom Duty	313081	313082		100	33	6
	GROUP B	Human Resource Management	313091	313092		100	33	6
	GROUP C	Auditing	313101	313102		100	33	6
Minor	GROUP A	Income Tax for Business	313111	313112		100	33	6
	GROUP B	Management Accounting	313121	313122		100	33	6
	GROUP C	Public Finance	313131	313132		100	33	6
Elective		Business Ethics and Human Values	313141	313142		100	33	6
		International Business	313151	313152		100	33	6
		Investment Management	313161	313162		100	33	6
		Environment and Sustainable Tourism	313171	313172		100	33	6
		Internet and its Application	313181	313182	313183	100	33	6
Internship/Field Project				813202	813203	100	33	4



**BACHELOR OF
COMPUTER APPLICATION**

VIRTUS IN ARDUO

SUBJECT CODES - III YEAR (2023-24)

BCA			SUBJECT CODES			Max	Min	Credit	
			TH(1)	INTERNAL(2)	PR(3)				
1	Foundation Course (Compulsory)	FC-I	Bhasha aur Sanskruti	713011			50	17	2
			English Language and Communication Skills	713021			50	17	2
	FC-II	Personality Development and Character Building	713031	50			17	2	
		Digital Awareness - Cyber Security	713041	50			17	2	
2	MAJOR-I	GROUP A	Computer Graphics	713051	713052	713053	100	33	6
		GROUP B	Data Warehousing & Mining	713061	713062	713063	100	33	6
3	MAJOR-II	GROUP A	PHP with MySQL	713071	713072	713073	100	33	6
		GROUP B	Web Technologies	713081	713082	713083	100	33	6
4	MINOR		Python Programming	713091	713092	713093	100	33	6
5	ELECTIVE		Data Science and Machine Learning	713101	713102	713103	100	33	6
			Cyber Security	713111	713112	713113	100	33	6
6	Internship/Field Project				813202	813203	100	33	4

BACHELOR OF BUSINESS ADMINISTRATION



SUBJECT CODES - III YEAR (2023-24)

BBA			SUBJECT CODES			Max	Min	Credit
			TH(1)	CCE(2)	PR(3)			
Foundation Course (Compulsory)	FC-I	Bhasha aur Sanskruti	613011			50	17	2
		English Language and Communication Skills	613021			50	17	2
	FC-II	Personality Development and Character Building	613031			50	17	2
		Digital Awareness - Cyber Security	613041			50	17	2
Major-I	GROUP A	Human Resource Development	613051	613052	100	33	6	
	GROUP B	Consumer Behavior	613061	613062	100	33	6	
	GROUP C	Security Analysis and Portfolio Management	613071	613072	100	33	6	
Major-II	GROUP A	Employee Relation & Compensation Management	613081	613082	100	33	6	
	GROUP B	International Marketing	613091	613092	100	33	6	
	GROUP C	International Finance	613101	613102	100	33	6	
Minor	GROUP A	Functional Management	613111	613112	100	33	6	
	GROUP B	Retail Management	613121	613122	100	33	6	
	GROUP C	Working Capital Management	613131	613132	100	33	6	
Elective	GROUP A	Retail Management	613121	613122	100	33	4	
	GROUP B	Functional Management	613111	613112	100	33	4	
	GROUP C	Functional Management	613111	613112	100	33	4	
Internship/ Field Project			813202	813203				

Subject	Paper	TH	CCE(Internal)	PR
elective	NCC Awareness	813011	813012	813013
vocational	Accounting and Tally	813021	813022	813023
vocational	Desktop Publishing DTP	813031	813032	813033
vocational	Digital Marketing	813041	813042	813043
vocational	E-Accounting and Taxation with GST	813051	813052	813053
vocational	Electrical Technology	813061	813062	813063
vocational	Export Import Management	813071	813072	813073
vocational	Finance Services and Insurance	813081	813082	813083
vocational	Food Preservation and Processing	813091	813092	813093
vocational	Medical Diagnostics	813111	813112	813113
vocational	Medicinal Plants	813121	813122	813123
vocational	Nutrition and Dietetics	813131	813132	813133
vocational	Karyalaya Prakriya Aur Vyavhar	813141	813142	813143
vocational	Organic Farming	813151	813152	813153
vocational	Personality Development	813161	813162	813163
vocational	Salesmanship	813171	813172	813173
vocational	Vermicomposting	813181	813182	813183
vocational	Web Designing	813191	813192	813193
	PROJECT		813202	813203
	INTERNSHIP			
	FIELD PROJECT			
	APPRENTICE			



POST GRADUATE PROGRAMMES



MASTER OF COMMERCE



VIRTUS IN ARDUO

M.Com IV SEM - COMMERCE											
		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		CREDIT
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
1	Indirect Tax: Goods and Services Tax - I	914011	914012		40	14	10	4			4
2	Research Methodology - II	914021	914022		40	14	10	4			4
3	International Financial Management - III	914031	914032		40	14	10	4			4
	International Marketing Management- III	914041	914042		40	14	10	4			4
	Corporate Tax Planning- III	914051	914052		40	14	10	4			4
4	Human Resource Development - IV	914061	914062		40	14	10	4			4
5	Dissertation / Project and Viva- Voce			914073					50	18	4
6	Skill Development (Communication Skills)	994002			10	4					1



MASTER OF ARTS



MA IV SEM - ECONOMICS											
		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		CREDIT
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
1	Indian Economy: Structure, Problems and Policy - I	414011	414012		40	14	10	4			5
2	Indian Foreign Trade and International Institutions - II	414021	414022		40	14	10	4			5
3	Financial Institutions and Markets - III	414031	414032		40	14	10	4			5
4	Economics of Gender and Development - IV	414041	414042		40	14	10	4			5
5	Project and Comprehensive Viva			414063					25	9	4
6	Skill Development (Communication Skills)	994002			10	4					1



MA III SEM - ECONOMICS 2023-2024											CREDIT
		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
1	Public Economics-I	413011	413012		40	14	10	4			5
2	Industrial Economics - II	413021	413022		40	14	10	4			5
3	Rural Development-III	413031	413032		40	14	10	4			5
4	Environmental Economics-IV	413041	413042		40	14	10	4			5
5	Project			413063					25	9	4
6	Skill Development (Personality Development)	993003			10	4					1



MA I SEM - ECONOMICS 2023-2024											CREDIT
		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
1	Micro Economic Analysis-I	411011	411012		40	14	10	4			5
2	Macro Economic Analysis-II	411021	411022		40	14	10	4			5
3	Quantitative Techniques - III	411031	411032		40	14	10	4			5
4	Economics of Growth & Development - IV	411041	411042		40	14	10	4			5
5	Project			411053					25	9	4
6	Skill Development (Computational Skills)	991001			10	4					1



MA IV SEM - POLITICAL SCIENCE

		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		CREDIT
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
1	Political Sociology - I	434011	434012		40	14	10	4			5
2	Government and Politics of Madhya Pradesh - II	434021	434022		40	14	10	4			5
3	Electoral Politics in India - III	434031	434032		40	14	10	4			5
4	Human Rights - IV	434041	434042		40	14	10	4			5
5	Project and Comprehensive Viva			434053					25	9	4
6	Skill Development (Communication Skills)	994002			10	4					1



MA III SEM - POLITICAL SCIENCE 2023-2024											CREDIT
		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
1	International Law-I	433011	433012		40	14	10	4			5
2	Indian Foreign Policy-II	433021	433022		40	14	10	4			5
3	Local Government-III	433031	433032		40	14	10	4			5
4	Citizen and Civic Awareness-IV	433041	433042		40	14	10	4			5
5	Project			433053					25	9	4
6	Skill Development (Personality Development)	993003			10	4					1



MA I SEM - POLITICAL SCIENCE 2023-2024											CREDIT
		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
1	Indian Political Thought-I	431011	431012		40	14	10	4			5
2	Indian Government and Politics-II	431021	431022		40	14	10	4			5
3	International Politics & Contemporary Political Issues - III	431031	431032		40	14	10	4			5
4	Major Ideas & Issues In Public Administration - IV	431041	431042		40	14	10	4			5
5	Project			431053					25	9	4
6	Skill Development (Computational Skills)	991001			10	4					1



MA III SEM - ENGLISH LITERATURE 2023-2024											CREDIT
		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
1	Critical Theory-I	423011	423012		40	14	10	4			5
2	English Language-II	423021	423022		40	14	10	4			5
3	American Literature-III	423031	423032		40	14	10	4			5
4	Indian Writings in English-III	423041	423042								
5	Fundamentals of Communication-IV	423051	423052		40	14	10	4			5
6	Project			423053					25	9	4
7	Skill Development (Personality Development)	993003			10	4					1



MA I SEM - ENGLISH LITERATURE 2023-2024											CREDIT
		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
1	Poetry - I	421011	421012		40	14	10	4			5
2	Drama - II	421021	421022		40	14	10	4			5
3	Fiction - III	421031	421032		40	14	10	4			5
4	Prose-IV	421041	421042		40	14	10	4			5
5	Project			421053					25	9	4
6	Skill Development (Computational Skills)	991001			10	4					1



MASTER OF SCIENCE



MSC IV SEM - PHYSICS

		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		CREDIT
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
1	Atomic and Molecular Physics - I	514011	514012		40	14	10	4			4
2	Concise Study of Non-Linear Systems - II	514021	514022		40	14	10	4			4
3	Condensed Matter Physics - III	514031	514032		40	14	10	4			4
4	A Course In Computational Physics using Mathematica(II) - IV	514041	514042		40	14	10	4			4
5	LAB - A (Condensed Matter Physics)			514053					50	18	3
6	LAB - B (Mathematica)			514063					50	18	3
7	Research / Industry Based Project			514073					100	40	4
8	Skill Development (Communication Skills)	994002							10	4	1

MSC IV SEM - BIOTECHNOLOGY							
		SUBJECT CODES			PRACTICAL MARKS		CREDIT
		TH	CCE	PR	MAX	MIN	
1	Dissertation			564013	200	70	16
2	Project and Comprehensive Viva-Voce			564023	50	18	4
3	Seminar			564033	50	18	4



DEPARTMENT OF BOTANY AND MICROBIOLOGY
M.SC. MICROBIOLOGY SEMESTER IV
SESSION 2023-24

DISSERTATION	CREDITS	MAXIMUM MARKS
A. Valuation		
(i) Language and Presentation	4	50
(ii) Review of Literature	4	50
(iii) Methodology	4	50
(iv) Analysis and Interpretation of Result	2	50
B. Viva Voce Internal	2	25
C. Viva Voce External	2	25
Skill Development	1	Grade Point will be provided by Skill Development Centre

MSC IV SEM - COMPUTER SCIENCE

		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		CREDIT
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
		1	Compiler Design - I	554011	554012		40	14	10	4	
2	Cloud Computing	554021	554022		40	14	10	4			4
3	TCP/IP Concepts - III	554031	554032		40	14	10	4			4
4	Data Science using Python - IV	554041	554042		40	14	10	4			4
5	Major Project / Research Project			554053					150	52	6
6	Skill Development (Entrepreneurship Development)	994004							10	4	1

MSC IV SEM - ZOOLOGY											
		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		CREDIT
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
1	Animal Behaviour and Neurophysiology - I	534011	534012		40	14	10	4			4
2	Gamete Biology, Development and Differentiation - II	534021	534022		40	14	10	4			4
3	Pure and Applied Fisheries - III	534031	534032		40	14	10	4			4
4	Practical - I			534043					50	18	2
5	Practical - II			534053					50	18	2
6	Dissertation			534063					50	18	4
7	Internship Project			534073					50	18	4
8	Comprehensive Viva-voce			534083					50	18	1
9	Skill Development (Communication Skills)	994002			10	4					1



MSC IV SEM - CHEMISTRY

		SUBJECT CODES			THEORY MARKS		CCE MARKS		PRACTICAL MARKS		CREDIT
		TH	CCE	PR	MAX	MIN	MAX	MIN	MAX	MIN	
1	Inorganic Chemistry - I	544011	544012		40	14	10	4			4
2	Organic Synthesis Strategies - II	544021	544022		40	14	10	4			4
3	Environmental Chemistry - III	544031	544032		40	14	10	4			4
4	Bioorganic Chemistry - IV	544041	544042		40	14	10	4			4
5	Minor Project / Internship			544053					100	35	5
6	Seminar			544063					10	4	1
7	Skill Development (Communication Skills)	994002							10	4	1



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

ORDINANCE 11

Rani Durgavati Vishwavidyalaya, Jabalpur

For

Doctor of Philosophy (PhD)

VIRTUS IN ARDUO

ORDINANCE NO. 11

DOCTOR OF PHILOSOPHY

Revised in light of the University Grants Commission (Minimum Standards and Procedure for Awards of M.Phil./Ph.D. Degrees Regulations, 2016 published in the Gazette of India on July 05, 2016)

1. The Ordinance shall come into force with effect from the date of its notification by UGC in Gazette. With the enforcement of this ordinance, existing ordinance shall be repealed.

2. No Ph.D. scholar shall join any other course/study or appear at any other examination leading to a degree, except Certificate course(s), during his/her Ph.D. programme.

3. A candidate for the degree of Doctor of Philosophy must, at the time of application, hold a Master's degree or equivalent in the concerned or allied subject with at least 55% Marks (50% for SC/ST/OBC(non-creamy layer)/Differently-Abled and other categories of candidates as per the decision of the UGC from time to time, or for those who had obtained their Master's degree prior to 19th September, 1991.) of the University, a deemed University or other University incorporated by any law for the time being in force and recognized by the University.

*For Candidates belonging to the following faculties, eligibility of the candidate will be decided as follows:

a. Faculty of Ayurved – As per CCIM norms.

b. Faculty of Medicine –

I. Allopathy subjects – As per MCI norms.

II. Nursing subjects – As per INC norms.

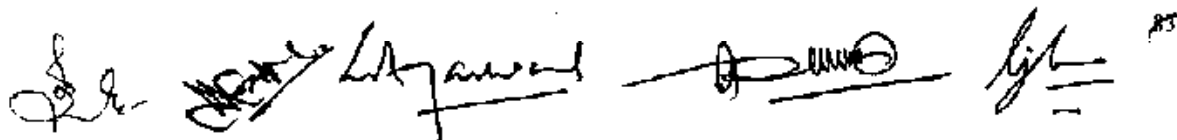
III. Homeopathy subjects – As per CCH norms.

c. Faculty of Dentistry – As per DCI norms.

4. A candidate shall ordinarily be permitted to work for Ph.D. Degree in the subject in which he/she has obtained his/her Master's Degree.

Provided that, research work leads to Ph.D. Degree may be allowed in allied subject of interdisciplinary nature of the same faculty or of allied faculties. In such cases, candidates may be permitted to work under one or two co-supervisors along with the supervisor.

5. Candidates shall be admitted through an entrance test followed by an interview. The students who have qualified UGC-NET with JRF / UGC-CSIR-NET with JRF / teacher fellowship holder or any other Government / Foreign research fellowship holder or have

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Supervisor / Co-supervisor belongs to the Research Laboratory recognized by the University as research centre through MoU then respectively Co-supervisor/ Supervisor will be allotted from the UTD with which Research Laboratory has the MoU.

In case of topics which are of inter-disciplinary nature where the RAC feels that the expertise in the research centre has to be supplemented from outside, the RAC may appoint a Research Supervisor from the research centre, who shall be known as the Research Supervisor, and a Co-Supervisor from outside the Research centre/ Faculty / College/ University on such terms and conditions as may be specified and agreed upon by the consenting Institutions/Colleges.

11. Course Work:-

(a) The candidates selected for Ph.D. programme are required to apply for the Ph.D. registration on prescribed proforma downloadable from the university website (Appendix-II). The duly filled registration form along with the necessary documents and certificates shall be forwarded by the research centre after verifying the payments of the following fees:

- (i) Registration fee
- (ii) Ph.D. Course work fee
- (iii) Research Centre fee for six months
- (iv) Research Centre Caution Money (payable once only and refundable)
- (v) University Library fee for six months
- (vi) University Library caution money (payable once only and refundable)
- (vii) IT Infrastructure fee for six months
- (viii) Research Laboratory fee for six months (where laboratory work is involved)
- (ix) Identify card fee
- (x) Any other fee as decided by the university.

Duly forwarded Ph.D. registration form should be submitted to the University and a photocopy of the same form and documents should be submitted to the Research Centre.

The candidates already completed the course work with at least 55% of marks in M.Phil. and admitted to the Ph.D. programme shall be exempted from the Ph.D. course work and its fee. All other candidates admitted to the Ph.D. programme and submitted the Ph.D. registration form shall be required to complete the course work of 16 credits as prescribed by the University/ Research Centre during initial one or two semesters. The course work shall be treated as prerequisite for Ph.D. preparation. All courses prescribed for Ph.D. course work shall be in conformity with the credit hour instructional requirement and shall specify content, instructional and assessment methods. The examination and evaluation scheme for Ph.D. course work shall be as per the examination and evaluation scheme of the University applicable to the other programmes of the UTDs.

The Ph.D. course work shall contain the following courses:

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(i) Research Methodology	4 credits
(ii) Review of Published Research in the relevant field	3 credits
(iii) Computer Applications	3 credits
(iv) Advance course in the relevant subject	3 credits
(v) Comprehensive Viva-Voce	3 credits

The course on Research Methodology should cover areas such as statistical research methods, research ethics, research report writing, etc. The course on Review of Published Research in the relevant field will be undertaken under the supervisor or the regular teacher of the centre of course work and the candidate has to consult the library or other resources to carry out the literature review. At the end of the semester the candidate has to submit a brief report on the literature review for evaluation, which will be done by the two examiners. The course on computer applications will include the computer applications helpful in the relevant subject. The advanced course in the relevant field shall comprise the topics related to the subject of research. The syllabus of the courses on research methodology, computer applications, and advanced course shall be decided by the concerned Board of Studies.

The final grades shall be submitted to the University. The University shall issue the certificate of the Ph.D. course work in the prescribed format (Appendix-III).

(b) The course work shall be conducted in the University Teaching Departments/ Research centers as approved by the Vice chancellor.

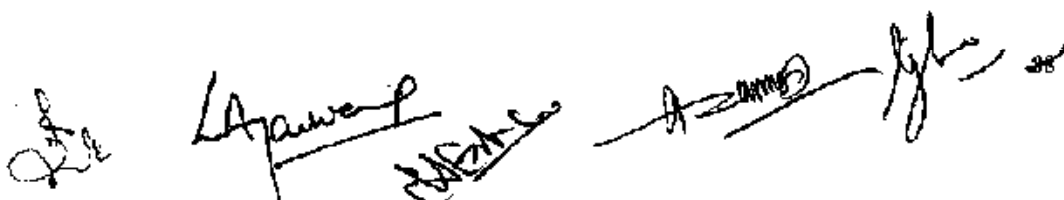
(c) A combined course work for M.Phil. and Ph.D. students may be conducted for a single / group of subjects wherever possible.

(d) If found necessary, course work may be carried out in sister UTD/ Institute within the University for which due credit will be given.

(e) If a student obtains F or Ab Grade in a course/ subject, he /she will be treated to have failed in that course. He / she have to reappear in the examinations of the course as and when conducted or arranged by the UTD in the next semester. Marks obtained earlier in continuous assessment may be carried forward and added to the marks obtained in repeat end-semester examination to decide the grade in the repeat course. The student has to pay the prescribed fee for repeating the course. If he/she further fails in the course, he/she shall not be given another chance and he/ she shall be out of the Ph.D. programme. No student shall be allowed to repeat the course to improve the grade if he/ she pass the course.

(f) The candidate has to obtain a minimum of 55% of marks or its equivalent grade points in aggregate in the course work in order to be eligible to continue in the Ph.D. programme.

12. Registration of the student:



submit his/ her thesis within six calendar years from the date of registration and does not apply for extension in time, his/her registration shall stand automatically cancelled.

The women candidates and Persons with Disability (more than 40% disability) may be allowed a relaxation of two years for Ph.D. in the maximum duration. In addition, the women candidates may be provided Maternity Leave/Child Care Leave once in the entire duration of Ph.D. for up to 240 days.

Provided that the period for submission of thesis can be extended by one year by the Vice Chancellor, if he/she applies for extension at least one month before the expiry of registration period together with a prescribed fee. In case the candidate does not submit his/her thesis within the extended period his/her registration stand automatically cancelled.

Provided also that, Vice Chancellor may permit a candidate to get re-registered on the same topic on payment of re-registration fee. The minimum period of three years and attendance shall not apply to such reregistered candidates.

19. A candidate may be allowed to change the Supervisor by the Vice Chancellor on the recommendation of the RAC or Chairman BOS and Dean of the faculty under special circumstances. No major change in the topic of research will be permitted due to change of supervisor.

20. (a) The University shall obtain every six months a record of attendance, receipt of fees paid and a progress report on a prescribed format (Appendix-V) of the work of the Research Scholar from his supervisor.

(b) If the progress of work is not found satisfactory in two successive reports or no reports are received for a period of one year and the candidate fails to deposit the fee, the Vice Chancellor may order the removal the name of the Scholar from the list of those registered for the Ph.D. Degree.

21. Evaluation and Assessment Methods, minimum standards for award of the degree:

The candidate shall submit a draft dissertation / thesis to the research centre prior submission of the research summary and the scholar shall make a presentation in the research centre open to all faculty members and other research scholars. The feedback and comments obtained from them may be suitably incorporated into the draft dissertation / thesis in consultation with the supervisor/ co-supervisor.

On the advice of the Supervisor and Co-Supervisor (if any) minor changes in the thesis title may be approved by the Research Advisory Committee.

22. Ph.D. scholars must publish at least one (1) research paper in refereed journal and make two paper presentations in conferences / seminars before the submission of the thesis for adjudication, and produce evidence for the same in the form of presentation certificates and/or reprints.

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