



Gondwana University, Gadchiroli

FACULTY OF COMMERCE

**DIRECTION GOVERNING THE EXAMINATIONS
LEADING TO THE AWARD OF TWO YEARS POST
GRADUATE DEGREE, IN THE FACULTY OF
COMMERCE WITH SEMESTER PATTERN &
CHOICE BASED CREDIT SYSTEM FROM THE
ACADEMIC SESSION 2016-17**

GONDWANA UNIVERSITY, GADCHIROLI

FACULTY OF COMMERCE

DIRECTION NO. 206 /2016

EXAMINATIONS LEADING TO THE POST GRADUATE DEGREE OF M.COM., M.C.M., M.I.R.P.M. COURSES, IN THE FACULTY OF COMMERCE WITH SEMESTER PATTERN & CHOICE BASED CREDIT SYSTEM DIRECTION, 2016.

WHEREAS, the University Grants Commission, New Delhi vide D.O. No. F-2/2008 (XI Plan), dated 31 January 2008 regarding new initiatives under the XI Plan Academic reforms in the University has suggested for improving quality of higher education and to initiate the academic reform at the earliest.

AND

WHEREAS, the Boards of Studies in Faculty of Commerce in its meeting held on 23.04.2012 prepared the Course and Examination Schemes for Post Graduate Courses, M.Com., M.C.M., M.I.R.P.M. and recommended for introducing the Semester Pattern with Choice Based Credit System in the Faculty of Commerce from the academic session 2012-13.

AND

WHEREAS, the Faculty of Commerce in its meeting held on 03.05.2012 considered and approved the recommendations of Boards of Studies regarding the syllabi of I and II Semester as per the course and examination scheme passed by the respective boards of studies in the Faculty of Commerce from the year 2012-13.

AND

WHEREAS, the Academic Council in its meeting held on 09.05.2012 considered and approved the recommendations of the Faculty of Commerce for introducing Semester Pattern with Choice Based Credit System for award Degree in the Faculty of Commerce

AND

WHEREAS, the matter is required to be regulated by an Ordinance.

AND

WHEREAS, ordinance making is a time consuming process, Now therefore, I, Dr. N.V. Kalyankar, Vice Chancellor, Gondwana University, Gadchiroli in exercise of powers vested in me under Section 14(8) of the Maharashtra Universities Act, 1994, do hereby issue the following Directions :-

1. This Direction may be called **"Examinations leading to the post graduate degree of M.Com., M.C.M., M.I.R.P.M. in the Faculty of Commerce with semester pattern & choice based credit system, Direction, 2016.**

2. This Direction shall come into force with effect from the date of its issuance.
3. The duration of course shall be as specified in course and examination scheme attached with this Direction and shall have University examinations at the end of each semester.
4. A candidate from M.Com. / MCM / MIRPM can choose any subject from the pool of subjects available for the respective semester. Even individual subjects from group of specializations would also be available to such candidate. Such candidate can choose both subjects from elective foundation or one each from elective foundation and electives
5. Subject to the compliance with the provisions of this Direction and other Ordinances in force from time to time, an applicant for admission to the examination shall :-

a) **M. Com.-I**

shall have passed B.Com., B.Com. (Computer Application) or B.B.A. Degree examinations of Gondwana University, Gadchiroli or an equivalent examinations of any other recognized University.

b) **M.C.M.**

MCM I - A student who has passed any Bachelor Degree course in any stream shall be enrolled for this course.

MCM II - A student who has passed 1st Semester examination of MCM I

OR

A student who has passed Post Graduate Diploma in Computer Commercial Application (PGDCCA) from Gondwana University, Gadchiroli or from R.T.M. Nagpur University, Nagpur.

OR

A student who has passed Post B.Sc. Diploma in Computer Science and Application (PGDCS&A) from Gondwana University, Gadchiroli or from R.T.M. Nagpur University, Nagpur.

c) **M.I.R.P.M.**

Semester - I

Any Degree from any stream and examination recognized as equivalent thereto with English as one of the subject of passing and in such subject and with such standard of attainments as may be prescribed.

Semester - III

The applicant who has passed 40% subjects each of Semester -I & Semester II shall be eligible for admission to Semester III subject to ATKT rules & for IVth Semester candidate should have appeared at least 01 theory paper of Semester III.

OR

The applicant who has passed Post Graduate Diploma in Industrial Relations and Personnel Management (DIRPM)

6. The examination shall be held, as far as possible, in winter and summer every year at such places and on such dates as may be decided by the university.
7. The ATKT rules for admission (Theory and Practical considered as separate passing head) shall be as given in the following table.

Table

Admission to Semester	Candidates should have passed in all the subjects of the following examination of RTM Nagpur University	Candidates should have passed at least two third of the passing heads of the following examinations.
Semester - I	*	
Semester – II	--	Candidate having appeared in at least 01 Theory subject of I semester Examination.
Semester – III	--	Candidate having passed 50% subjects of I semester and II semester each.
Semester – IV	--	Candidate having passed in 50% subjects of I semester and II semester each and appeared in atleast 01 theory paper of III semester examination.

- As mentioned above para 5.
8. Without prejudice to the other provisions of an Ordinance relating to the examinations in General, the provisions of paragraphs 5,6,10 of the said ordinance shall apply to every collegiate candidate.
 9. The tuition fees for the course/examination and the practical and other fees, as prescribed by the University from time to time, shall be applicable for the said examinations.
 10. a) . The Scope of the subject shall be as indicated in the respective syllabus in force from time to time.
b) The medium of instruction and examinations shall be as per respective subject of the concerned language and for courses other than languages then there will be English/Marathi/Hindi for M.Com. & only English for M.C.M. & M.I.R.P.M.
 11. The number of papers and the maximum marks assigned to each paper and minimum marks an examinee must obtain in order to pass the examination shall be as prescribed in Appendices attached with this Direction.

12. The classification of the examinees successful at the semester end examinations and at the end of final semester examinations shall be as per the rules and regulations of credit system and semester pattern.
13. Examinees who have passed in all the subjects prescribed for the first to fourth semester examinations, then Letter Grade will be allotted as per the following mentioned schemes.
14. Grades-Marks for each course (Theory and Practical) requiring minimum passing of 40 % would be converted to grades as shown in Table – 1.

Table 1: Conversion of marks to grade points and grades

MARKS SCORED	Grade Points (on 10 point scale)	Grade	Remark
85-100	10	O	Outstanding
70 to less than 85	9	A ⁺	Excellent
60 to less than 70	8	A	Very Good
55 to less than 60	7	B ⁺	Good
50 to less than 55	6	B	Average
45 to less than 50	5	C	Below Average
40 to less than 45	4	D	Pass
Less than 40	0	F	Fail
Absent in Examination	0	Ab	Absent

GONDWANA UNIVERSITY, GADCHIROLI

**MASTER OF COMMERCE
(TWO YEARS COURSE IN FACULTY OF COMMERCE)
COURSE AND EXAMINATION SCHEME WITH CHOICE BASED CREDIT SYSTEM**

II – SEMESTER

Area	Unique Subject Code (USC)	Subject	Teaching Scheme				Examination Scheme					
			Weekly Hours			No. of Credits	Duration of Paper (Hrs.)	Max. Marks	Theory		Total	Min. Passing Marks
			L	T	Total Hours				Max. Marks Internal Assessment	IE		
Core Course	PCC2C01	Research Methodology	4	-	4	5	3	80	20	100	40	
	PCC2C02	Advanced Cost Accounting	4	-	4	5	3	80	20	100	40	
Compulsory Foundation	PCC2F03	Co-operation & Rural Development	4	-	4	4	3	80	20	100	40	
	PCC2F04	Human Resource Management	4	-	4	4	3	80	20	100	40	

L= LECTURES T= THEORY ESE= END SEMESTER EXAMINATION IE= INTERNAL EVALUATION

GONDWANA UNIVERSITY, GADCHIROLI

**MASTER OF COMMERCE
(TWO YEARS COURSE IN FACULTY OF COMMERCE)
COURSE AND EXAMINATION SCHEME WITH CHOICE BASED CREDIT SYSTEM
III – SEMESTER**

Area	Unique Subject Code (USC)	Subject	Teaching Scheme				Examination Scheme				
			Weekly Hours			No. of Credits	Theory				
			L	T	Total Hours		Duration of Paper (Hrs.)	Max. Marks	Max. Marks Internal Assessment	Total	Min. Passing Marks
		ESE	IE								
Core Course	PCC3C01	Statistical Techniques	4	-	4	5	3	80	20	100	40
Compulsory Foundation	PCC3F02	Tax procedures & Practices	4	-	4	5	3	80	20	100	40
Elective Foundation See instructions for selecting subjects from 'Pool of subjects'	See 'Pool of Subjects' for USC	Elective - I	4	-	4	4	3	80	20	100	40
Elective See instructions for selecting subjects from 'Pool of subjects'	See 'Pool of Subjects' for USC	Elective - II	4	-	4	4	3	80	20	100	40

L= LECTURES T= THEORY ESE= END SEMESTER EXAMINATION IE= INTERNAL EVALUATION

GONDWANA UNIVERSITY, GADCHIROLI

MASTER OF COMMERCE (TWO YEARS COURSE IN FACULTY OF COMMERCE) COURSE AND EXAMINATION SCHEME WITH CHOICE BASED CREDIT SYSTEM

Area	Unique Subject Code (USC)	Subject	Teaching Scheme				Examination Scheme					
			Weekly Hours			No. of Credits	Duration of Paper (Hrs.)	Theory			Total	Min. Passing Marks
			L	T	Total Hours			Max. Marks	Max. Marks Internal Assessment			
		ESE	IE									
Core Course	PCC4C01	Advanced Management Accounting	4	-	4	5	3	80	20	100	40	
Compulsory Foundation	PCC4F0P	Project + Seminar	4	-	4	14	-	Seminar-50 Project E- 50 + I-50		150	-	
Elective Foundation See instructions for selecting subjects from 'Pool of subjects'	See 'Pool of Subjects' for USC	Elective - I	4	-	4	4	3	80	20	100	40	
Elective See instructions for selecting subjects from 'Pool of subjects'	See 'Pool of Subjects' for USC	Elective - II	4	-	4	4	3	80	20	100	40	

IV – SEMESTER

L= LECTURES T= THEORY ESE= END SEMESTER EXAMINATION IE= INTERNAL EVALUATION

Gondwana University, Gadchiroli

**Syllabus for M.A. (Economics)
Course under Choice Based Credit System &
Credit Based Semester System**

Session : 2016-17 onwards

M.A. (Economics) Sem I & II

Board of Studies in Economics
M.A. Part – I (Economics) Syllabus Committee

1	Dr. Rajesh H. Gaidhani	Chairman
2	Dr. S. Kawale	Member
3	Dr. A. K. Mahatale	Member
4	Dr. S. N. Bute	Member
5	Dr. P.B. Titare	Member
6	Dr. AstikMungmode	Member
7	Dr. HemantGajadiwar	Member
8	Dr. SharyuPotnurwar	Member
9	Dr. kundandupare	Member
10	Dr. Ganesh Maywade	Member RTM Nagpur, Uni.
11	Dr. Mahajan	Member RTM Nagpur, Uni.

DEPARTMENT OF ECONOMICS
Gondwana University, Gadchiroli
M. A. –SEMESTER IST

Sr. No.	Course Code	Title of Course
CORE COURSES		
1	EC - 101	Micro Economics – I
2	EC - 102	Macro Economic Analysis-I
OPTIONAL PAPERS		
1	EO - 103	Agricultural Economics -I
2	EO - 104	Statistics for Economics- I
3	EO - 105	History of Economics Thought
4	EO - 106	Econometrics -I
5	EO- 107	Public Economics

M. A.– SEMESTER IInd

Sr. No.	Course Code	Title of Course
CORE COURSES		
1	EC - 201	Micro Economics – II
2	EC - 202	Macro Economic Analysis -II
OPTIONAL PAPERS		
1	EO - 203	Agricultural Economics -II
2	EO - 204	Statistics for Economics- II
3	EO - 205	Industrial Economics
4	EO - 206	Environmental Economics
5	EO - 207	Econometrics -II

M. A. –SEMESTER IIIrd

Sr. No.	Course Code	Title of Course
CORE COURSES		
1	EC - 301	Economics of Growth & Development – I
2	EC - 302	International Trade & Finance-I
OPTIONAL PAPERS		
1	EO - 303	Labour Economics
2	EO - 304	Indian Economic Policy –I
3	EO - 305	Economics of Infrastructure
4	EO – 306	Research Methodology -I
5	EO - 307	Finacial Institute and Market-I
Credit by Choice		
	Se-1	Money and Banking
	Ws-1	Urban and Rural Economy

M. A.–SEMESTER IVth

Sr. No.	Course Code	Title of Course
CORE COURSES		
1	EC - 401	Economics of Growth & Development – II
2	EC - 402	International Trade & Finance-II
OPTIONAL PAPERS		
1	EO - 403	Indian Economic Policy –II
2	EO - 404	Research Methodology -II
3	EO - 405	Rural Development
4	EO - 406	Welfare Economics
5	EO - 407	Financial Institutions & Markets -II
Credit by Choice		
	Se-2	Economics of Marketing
	Ws-2	Poverty and Income Distribution

Notes:

- a) EC-101 to EC-102, EC-201 to EC-202, EC-301 to EC-302, EC-401 to EC-402, papers (8 Papers) are Compulsory.
- b) Student can select any two papers from Optional category for I & II semester.
- c) Student can select any two papers from Optional category or one paper from Optional category and one paper from credit by choice category for III & IV semester.
- d) Each paper will be of 100 marks. (Semester Examination 80 Marks, CIE 20 Marks)
- e) The syllabi of each paper per semester is spread over 60 instructional hours.

GONDAWANA UNIVERSITY, GADCHIROLI
MASTER OF ARTS (CHOICE BASED CREDIT SYSTEM SEMESTER PATTERN)
M. A. GEOGRAPHY

SEMESTER I

S.No.	Theory Paper	Teaching Scheme (Hrs/Week)	Examination Scheme							
			Duration Hrs	Max Marks		Total Marks	Credit	Min. Passing Marks		
				External TH Marks (Univ)	Practical / Internal Marks			External TH Marks	Practical / Internal Marks	Total
1	Paper – I - Core subject (History of Geographical Thoughts)	5	3	80	20	100	6	32	8	40
2	Paper - II- Core subject (Oceanography)	5	3	80	20	100	6	32	8	40
3	Paper - III- Core subject (Climatology)	5	3	80	20	100	6	32	8	40
4	Paper - IV (Practical I)	10	6	0	100	100	7	0	40	40
Total		25	12	240	100/60	400	25	96	64	160

SEMESTER II

S.No.	Theory Paper	Teaching Scheme (Hrs/Week)	Examination Scheme							
			Duration Hrs	Max Marks		Total Marks	Credit	Min. Passing Marks		
				External TH Marks (Univ)	Practical / Internal Marks			External TH Marks	Practical / Internal Marks	Total
1	Paper - I - Core subject (Research Methodology)	5	3	80	20	100	6	32	8	40
2	Paper - II - Core subject (Geomorphology)	5	3	80	20	100	6	32	8	40
3	Paper - III- Core subject (Geography of Resources)	5	3	80	20	100	6	32	8	40
4	Paper - IV(Practical II)	10	6	0	100	100	7	0	40	40
Total		25	12	240	100/60	400	25	96	64	160

SEMESTER III

S.No.	Theory Paper	Teaching Scheme (Hrs/Week)	Examination Scheme							
			Duration Hrs	Max Marks		Total Marks	Credit	Min. Passing Marks		
				External TH Marks (Univ)	Practical / Internal Marks			External TH Marks	Practical / Internal Marks	Total
1	Paper - I - Core subject (Geo. Of Manufacturing & Transport)	5	3	80	20	100	6	32	8	40
2	Paper - II - Core subject (Agriculture Geo.)	5	3	80	20	100	6	32	8	40
3	Paper - III – Elective Subject i(Population Geography) ii(Geography of tourism) iii (Bio- Geography)	5	3	80	20	100	6	32	8	40
4	Paper - IV(Practical III)	10	6	0	100	100	7	0	40	40
Total		25	12	240	100/60	400	25	96	64	160

SEMESTER IV

S.No.	Theory Paper	Teaching Scheme (Hrs/Week)	Examination Scheme							
			Duration Hrs	Max Marks		Total Marks	Credit	Min. Passing Marks		
				External TH Marks (Univ)	Practical / Internal Marks			External TH Marks	Practical / Internal Marks	Total
1	Paper - I - Core subject (Geography of Settlement)	5	3	80	20	100	6	32	8	40
2	Paper - II - Core subject (Social Geography)	5	3	80	20	100	6	32	8	40
3	Paper -III -- Elective Subject- i (Regional Planning) ii (Environmental Geography) iii (Political Geography)	5	3	80	20	100	6	32	8	40
4	Paper - IV(Practical IV)	10	6	0	100	100	7	0	40	40
Total		25	12	240	100/60	400	25	96	64	160

PATTERN OF EXAMINATION (ALL SEMESTERS)

Theory :

Three theory papers of 80 marks each and of three hours duration will be conducted at the end of each semester.

Practical's :

- 1) One Practical examination of 100 marks and of six hours duration of each semester will be conducted at the end of the same semester.
- 2) Practical examinations of all four semesters will be conducted by internal and External examiners appointed by the University.

Internal Assessment:

- 1) Head of the department will carry out internal assessment of the students on the basis of evaluation report from the concerned teacher/ teachers, under the supervision of the principal of the college and will be done at the end of each semester.
- 2) Distribution of 20 marks of internal assessment is as under –
 - i) Class Attendance 05 marks
 - ii) Home Assignment 05 marks
 - iii) Group discussion / seminar/ Geographical activities etc. 10 marks

Pattern of Question Paper

Que 1 :	A) from unit I OR B) from unit II	Marks 20
Que 2 :	A) from unit III OR B) from unit IV	Marks 20
Que 3 :	A) from unit I B) from unit I OR C) from unit II D) from unit II	Marks 20 (10 mark each)
Que 4 :	A) from unit III B) from unit III OR C) from unit IV D) from unit IV	Marks 20 (10 mark each)

Rules and Regulation

1. There will be five periods per week for theory papers.
2. The batch of Practical class should not be exceeding 10 students.
3. The minimum passing marks of Theory paper and internal Assessment is 40
4. The minimum passing marks of Practical examination is 40
5. Marks will not be allotted to student if he found absent in study tour.

CERTIFICATE

Department of Geography

Name of College.....

This is to certify that this practical record is the Original practical works of

Shri/ Kumari/ Smt.

Class..... Semester..... During the academic year.

He/she has attended/ not attained the field work/ Study tour prescribed by the Gondwana University

Gadchiroli.

Signature of the teacher who taught the examinee.

1)

2)

Head of the Department



**GONDWANA UNIVERSITY,
GADCHIROLI**

FACULTY OF SOCIAL SCIENCE

**M.A. I, II,
(Ist to IV Semester)**

**POLITICAL SCIENCE
SYLLABUS**

**Submitted by
Dr. Padma Kishor Pande
Chairman
BOS of Political Science**

2016-2017

To,
The Asst. Registrar (Academic)
Gondwana Univeersity,
Gadchiroli.

Date :21.04.2016

**Subject :Regarding submission of Semester Pattern C.B.C.S. in Political
Science (Semester III & IV) P.G. Level**

Respected Sir,

Political Science Board of Study, Gondwana University, Gadchiroli has prepared Semester Pattern syllabus (C.B.C.S.) of Political Science Post graduate level for 2016-17, according to the newly changed subjects given below –

Sr. No.	Semester	Year	Subject
1.	M.A. Part-I (I st Semester)	Year 2016-17	4 papers
2.	M.A. Part I (II nd Semester)	Year 2016-17	4 papers
	M.A. Part II (III rd Semester)	Year 2016-17	6 papers
	M.A. Part II (IV th Semester)	Year 2016-17	6 papers

Accordingly above mentioned Copies of newly Semester Pattern syllabus (C.B.C.S.) are attached herewith.

Kindly take note and do the needful.

Thanking you.

Yours faithfully

Encl. :

- 1) M.A. Part I (Ist & IInd Semesters)
- 2) M.A. Part II (IIIrd & IVth Semesters)
- 3) Recommendations for marking system.
- 4) Proforma of Internal Assessment System.
- 5) Model question paper

Dr. Padma Kishor Pande
Chairman
B.O.S. Political Science
Gondwana University, Gadchiroli

Members of B.O.S. Committee

1. Dr. Nandaji Satpute
2. Dr. Rajendra Muddamwar
3. Dr. Hirachand Veskade
4. Dr. Ashok Khobragade
5. Dr. Ganesh B. Khune
6. Dr. Ravi Dharpawar
7. Dr. Sanjay Awadhut
8. Prof. Jyoti Bhute
9. Dr. Nilesh Chimurkar
10. Dr. Vikas Jambhulkas

Semester Pattern Scheme of Examination for M.A. in Political Science

MA Part I - Semester 1								
			Examination		Internal Assessment		Total	
			Marks	Credits	Marks	Credits	Marks	Credits
Paper I (PS-01)	Modern Indian Political Thought	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper II (PS-02)	Politics of Maharashtra	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper III (PS-03)	Comparative Politics	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper IV (PS-04)	Public Administration	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
TOTAL		Full Marks	320	16	80	4	400	20
		Pass Marks	128	6.4	32	1.6	160	8

MA Part I - Semester 2								
			Examination		Internal Assessment		Total	
			Marks	Credits	Marks	Credits	Marks	Credits
Paper I (PS-05)	International Relations	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper II(PS-06)	Western Political Thought	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper III(PS-07)	Political Sociology	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper IV(PS-08)	Research Methodology	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
TOTAL		Full Marks	320	16	80	4	400	20
		Pass Marks	128	6.4	32	1.6	160	8

MA Part II - Semester 3								
			Examination		Internal Assessment		Total	
			Marks	Credits	Marks	Credits	Marks	Credits
Paper I(PS-09)	Indian Democracy and Political Process	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper II(PS-10)	Pressure Groups and Social Movements	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper III(PS-11)	International Law	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper IV(PS-12) (PS-13) (PS-14)	Diplomacy and Foreign Policy OR Political Ideology OR Political Theory and Political Analysis	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
TOTAL		Full Marks	320	16	80	4	400	20
		Pass Marks	128	6.4	32	1.6	160	8

MA Part II - Semester 4								
			Examination		Internal Assessment		Total	
			Marks	Credits	Marks	Credits	Marks	Credits
Paper I(PS-15)	Modern Political Ideologies	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper II(PS-16)	State Politics In India	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper III(PS-17)	Human Rights : Problems and Prospects	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper IV (PS-18) (PS-19) (PS-20)	Globalization and Its Impact on the Political System OR Indian Government and Politics OR Major Issues in world Politics	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
TOTAL		Full Marks	320	16	80	4	400	20
		Pass Marks	128	6.4	32	1.6	160	8
TOTAL of All 4 Semester		Full Marks	1280	64	320	16	1600	80
		Pass Marks	512	25.6	128	6.4	640	32

GONDWANA DIGITAL UNIVERSITY, GADCHIROLI

CHOICE BASED CREDIT SYSTEM SEMESTER PATTERN

FACULTY OF SOCIAL SCIENCES

M.A. HOME ECONOMICS

SYLLABUS FOR M.A. I & II

2016-2017

**CURRICULUM STRUCTURE AND SCHEAM OF EVALUATION
FOR SEM.I, III & SEM.II, IV**

FIVE CREDITS PATTERN FOR HOME ECONOMICS

A. Theory: 5 PERIODS/ WEEK/PAPER [4 CREDITS]

**B. PRACTICALS/SESSIONAL: 2 PERIODS/ WEEK/ PAPER
[1CREDITS]**

i. First M.A. Home Economics Semester I students will have -

- **Core course**[FOUR core papers]

1. Paper I [C-1] - RESEARCH METHOD- I

2. Paper II [C-2] - RESOURCE MANAGEMENT-I

3. Paper III [C-3] - HUMAN DEVELOPMENT

4. Paper IV [C-4] - TEXTILE AND CLOTHING -I

ii. M.A. Home Economics Semester II students will have -

- **Core course**[FOUR core papers]

1. Paper I [C-1] - RESEARCH METHOD- II

2. Paper II [C-2] - RESOURCE MANAGEMENT-II

3. Paper III [C-3] - FAMILY DYNAMICS

4. Paper IV [C-4] - TEXTILE & CLOTHING -II

iii. Second M.A. Home Economics Semester III students will have -

Choice based course with core and Elective Papers

for students from other discipline also

[Any one optional paper]

- **Core course**[three core papers]

1. Paper I [C-1] - CONSUMER ECONOMICS

2. Paper II [C-2] - FOOD AND NUTRITION

3. Paper III [C-3] - EXTENSION EDUCATION -I

4. Paper IV [C-4] - **Elective Paper**[Any one optional paper]

i. CB1 - HOUSING AND INTERIORS

ii. CB2 - SOCIAL RELATION AND HEALTH

iii. CB3- RESEARCH PROJECT- PILOT STUDY

iv. Second M.A. Home Economics Semester IV students will have -

- **Core course**[three core papers]

1. Paper I [C-1] - CONSUMER ECONOMICS -II

2. Paper II [C-2] - DIET THERAPY

3. Paper III [C-3] - EXTENSION EDUCATION-II

4. Paper IV -**Elective Papers**[Any one optional paper]

Choice based course for students from other discipline also

i. CB1 - HOUSING INTERIOR -II

ii. CB2 - COMMUNITY HEALTH

iii. CB3- DISSERTATION

PATTERN OF EXAMINATION [For All Semesters]

A. Theory :

Three theory papers of each semester will be of 80 marks, And one Paper will be of 60 marks of three hours duration each will be conducted at the end of each semester.

B. Practical :

- 1) One Practical examination of 20 marks and of three hours for each semester will be conducted at the end of the same semester.
- 2) Practical examination of all semesters will be conducted by Internal and External examiners.

C. Internal Assessment:

1) Head of the Department will carry out internal assessment of the students will be done on the basis of evaluation report from the concerned teachers, and will be done at the end of each semester.

2) Distribution of 20 marks of internal assessment is as under

ii) Assignment/Activity 10 marks

iii) Educational Visit/Project 05 marks

iv) Group discussion/ Seminar 05 marks

Gondawana University, Gadchiroli

Master of Arts (Choice Based Credit system Semester Pattern)

M. A. HOME ECONOMICS - [Semester - wise - distribution of marks]

Distribution of Marks

No.	Unit	LAQ	SAQ	TOTAL
1.	I	20		20
2.	II	20		20
3.	III		10+10	20
4.	IV		10+10	20
	Total	40	40	80

Pattern of Question Paper

Q. No 1. Two Question of Unit No I and Unit No. II with internal choice **Marks 20**

Q. No 2. Two Questions of Unit No III and Unit No. with internal choice **Marks 20**

Q. No 3. Two Question of Unit No I and Unit II with internal choice each

question would carry two sub question

Marks 20

Q. No 4. Two Question of Unit No III and Unit No IV with internal choice

each question would carry two sub question

Marks 20

Rules and Regulation

1. The teacher has to teach the syllabus for theory papers in 5 periods per week.
2. The batch of Practical class should not be exceeding 10 students.
3. The minimum passing marks of Theory paper + Internal Assessment is 40.
4. The minimum marks for passing practical examination are 40.
5. The student has to pass theory and practical examination separately.
6. Marks will not be allotted to student if she found absent in any activity.

It is necessary to attach the following certificate to each practical record of every semester while submitting before practical examination.

1. Semester I

S.No.	Theory Paper	Theory / Practical	Examination Scheme						
			Exam. Duration	Max Marks		Total Marks	Min. Passing Marks		
				THEORY (Uni. paper) MARKS	Internal/ Practical Marks		THEORY Marks	Practical /Internal Marks	Total
Teaching Scheme (Hrs/Week)	[Hrs.]								
1	Paper - I RESEARCH METHODS I	05/02	03	80	20	100	32	08	40
2	Paper - II RESOURCE MANAGEMENT	05/02	03	80	20	100	32	08	40
3	Paper - III HUMAN DEVELOPMENT	05/02	03	80	20	100	32	08	40
4	Paper - IV TEXTILE AND CLOTHING- I	05/02/02	03	60	20/20	100	24	08/08	40
Total		30	12	300	100	400	120	40	160

2. SEMESTER II

S.No.	Theory Paper	Theory / Practical	Examination Scheme						
			Exam. Duration	Max Marks		Total Marks	Min. Passing Marks		
				THEORY (Uni. paper) Marks	Practical/Int ernal Marks		THEORY Marks	Practical /Internal Marks	Total
Teaching Scheme (Hrs/Week)	[Hrs]								
1	Paper – I RESEARCH METHODS II	05/02	03	80	20	100	32	08	40
2	Paper - II RESOURCE MANAGEMENT	05/02	03	80	20	100	32	08	40
3	Paper - III FAMILY DYNAMICS	05/02	03	80	20	100	32	08	40
4	Paper - IV TEXTILE AND CLOTHING-II	05/02/02	03	60	20/20	100	24	08/08	40
Total		30	12	300	100	400	120	40	160

3. SEMESTER III

S.No.	Theory Paper	Theory / Practical	Examination Scheme						
			Exam. Duration [Hrs]	Max Marks		Total Marks	Min. Passing Marks		
				THEORY (Uni. paper) Marks	Practical / Internal Marks		TH Marks	Practical /Internal Marks	Total
1	Paper - I FOODS AND NUTRITION	05/02/02	03	60	20/20	100	24	08/08	40
2	Paper - II CONSUMER AND THE MARKET -I	05/02	03	80	20	100	32	08	40
3	Paper - III HOME ECONOMICS EXTENSION EDUCATION -I	0/025	03	80	20	100	32	08	40
	Paper - IV - [Elective]								
	I -HOUSING AND INTERIORS -I	05/02	03/	80/	20/	100/	32/	08/	40/
	ii - Social Relation and Health	05/02	03/	80/	20/	100/	32/	08/	40/
	iii - Research Project - Pilot Study	03/02/02	03/	40	40/20	100	16	16/08	40
	Total	30	12	280/320	60/80	400	120/104	40/56	160

4. SEMESTER IV

S.No.	Theory Paper	Theory / Practical	Examination Scheme							
			Exam, Duration [Hrs]	Max Marks		Total Marks	Min. Passing Marks			
				THEORY(Uni. paper) Marks	Practical / Internal Marks		TH Marks	Practical /Internal Marks	Total	
1	Paper - I DIET THERAPY	5 +2	3	80	20	100	24	08/08	40	
2	Paper - II CONSUMER AND THE MARKET	5	3	80	20	100	32	08	40	
3	Paper -III HOME ECONOMICS EXTENSION EDUCATION -II	5	3	80	20	100	32	08	40	
4	Paper - IV - [Elective]									
	I - HOUSING AND INTERIORS -I	5/	3/	80	20/	100/	32	08	40/	
	ii - COMMUNITY HEALTH	5/	3/	80	20/	100/	32	08	40/	
	iii - DISSERTATION	--	--	--	60/20/20	100	--	24/08/08	40	
Total		Total	22	320/300	60/80	400	120/88	40/72	160	

GONDWANA UNIVERSITY, GADCHIROLI

Faculty of Social Science

Syllabus for M.A. I

Sociology

Semester Pattern

Choice Based Credit System

w.e.f. 2016-17

Scheme of Examination for

M.A. I (Sociology)

Gondwana University, Gadchiroli
Semester wise Papers shall be
as following:

M.A. Sociology
Semester – I
Core Papers

Paper I

Classical Sociological Theory

Paper II

Methodology Of Social Research – I

Paper III

Core Elective Papers.

- A) Rural Society In India
- B) Sociology of Religion
- C) Gender & Society

Paper IV

Core elective Paper.

- A) Social Movements in India
- B) Criminology
- C) Sociology & Ageing

Semester II

Core Paper

Paper I

Perspectives on Indian Society

Paper II

Methodology & Social Research II

Paper III

Core elective Paper

- A) Urban Society In India
- B) Sociology of Health & medicine
- C) Sociology of Education

Paper IV

- A) Sociology of kinship marriage & Family
- B) Women in Indian Society
- C) Sociology & Marginalized Communities.

Scheme of Examination (M.A.Sociology Sem I & II)

**There will be University Examination of (80) Marks for each Theory paper
and Internal of 20 Marks for each paper.**

Details of Internal Work of Theory Papers(Per Semester)

Sr. No	Particular	No. of Assignments/Seminar	Marks
1	Class Seminar	One(per paper)	10
2	Home Assignment	One(per paper)	05
3	Oral Test & Personality Test(Co- Operation, Leadership, Presentation Confidence)	One(per paper)	05
		Total Marks	20

**The Distribution of credit and marks for each course evaluation shall be as
follows**

Sr.No.	Evaluation	Marks(each course/paper)	Credits(each course/paper)
1	Internal Evaluation	20	
2	External Evaluation	80	
		100	

Conversion of marks to Grade and Grades into CPI

Marks Obtained	Grade	Grade Point
90-100	A+	10
80-89	A	9
70-79	B+	8
60-69	B	7
55-59	C+	6
45-54	C	8
40-44	D	4
39& Less	FC	0-Fail

CPI	Final Grade
9.00-10.00	A+
8.00-8.99	A
7.00-7.99	B+
6.00-6.99	B
5.50-5.99	C+
4.50-5.49	C
4.00-4.49	D
0-3.99	F

**M.A. Sociology Course Structure:
Semester –I**

Course No.	Credits	Title Core Course	Total Lectures	Internal Marks	University Exam.(External Marks)	Total Marks
Paper I		Classical Sociological Theory	60	20	80	100
Paper II		Methodology of Social Research	60	20	80	100
Core Elective Papers(Select any One)						
Paper III(A)		Rural Society in India	60	20	80	100
Paper III(B)		Sociology of Religion	60	20	80	100
Paper III(C)		Gender & Society	60	20	80	100
Core Elective Papers(Select any one)						
Paper IV(A)		Social Movements In India	60	20	80	100
Paper IV(B)		Criminology	60	20	80	100
Paper IV(C)		Sociology of Ageing	60	20	80	100

**M.A. Sociology Course Structure:
Semester –II**

Course No.	Credits	Title Core Course	Total Lectures	Internal Marks	University Exam.(External Marks)	Total Marks
Paper I		Perspectives on Indian Society	60	20	80	100
Paper II		Methodology of Social Research-II	60	20	80	100
Core Elective Papers(Select any One)						
Paper III(A)		Urban Society in India	60	20	80	100
Paper III(B)		Sociology of Health & Medicine	60	20	80	100
Paper III(C)		Sociology of Education	60	20	80	100
Core Elective Papers(Select any one)						
Paper IV(A)		Sociology of kinship marriage & Family	60	20	80	100
Paper IV(B)		Women in Indian	60	20	80	100
Paper IV(C)		Sociology of Marginalized Communities	60	20	80	100

GONDWANA UNIVERSITY, GADCHIROLI

Faculty of Social Science

Semester Pattern

Choice Based Credit System

Syllabus for M.A. II Sociology

Semester III

w.e.f. 2016-17

Scheme of Examination for

M.A. II(Sociology)

Gondwana University, Gadchiroli
Semester wise Papers shall be
as following:
M.A.II Sociology
Semester – III
Core Papers

Paper 09

Theoretical Perspectives in Sociology – I

Paper 10

Sociology of Change and Development – I

Paper 11

Core Elective Papers.

- A) Industry and Society in India – I
- B) Education and Society in India
- C) State Society and Human Rights

Paper 12

Core elective Paper.

- A) Political Sociology – I
- B) Sociology of Environment and Society
- C) Labour in Global Economy

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A small number "2" is written below the circled signature.

M.A. Sociology

Sem - III and Sem- IV

Pattern of Question Paper

1. There will be four units in each paper.
2. Question paper will consist of five questions and all questions shall be compulsory.
3. Four questions will be on four units with internal choice (One question on each unit).
4. Fifth question will be compulsory with questions from each of the four units having equal Weight age and there will be no internal choice.
5. Each paper will be of 3 hours duration,
6. Minimum passing marks in each head (theory, practical & internal assessment) will be,40%.

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Gondwana University, Gadchiroli
Nature of Question Paper for Semester Pattern
M.A. II
Sub : Sociology
Semester - III

Time : 3 hours

Total Marks : 80 Marks

- Instruction :- 1. All questions are compulsory
2. Figures to the rights indicate full marks.

- Q. 1 : Answer any one long type question of the following
(Any one out of two) 16 Marks
- Q. 2 : Answer any one long type question of the following
(Any one out of two) 16 Marks
- Q. 3 : Answer any two semilong type questions of the following.
(Any two out of four) 08 Marks
08 Marks
- Q. 4 : Answer any two semilong type questions of the following.
(Any two out of four) 08 Marks
08 Marks
- Q. 5 : Write short answer of the following.
(Four questions are compulsory) 04 Marks
04 Marks
04 Marks
04 Marks

Total : 80 Marks

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Internal Assessment System

M.A. Part - II

Subject - Sociology

4 Papers (3rd Semester)
4 Papers (4th Semester)

Internal Assessment System: 20Marks (Each Semester)

(As per Syllabus)

(1) Class Seminar : 10Marks

Two class Seminar in Academic Session :

- i) First Semesters upto Diwali Vacation 10Marks
- ii) Second Semesters After Diwali Vacation 10Marks

2 & 3) Home Assignment & Oral Test :-

(2) Home Assignment

- i) Semester - III 05 Marks
- ii) Semester - IV 05 Marks

(3) Oral Test & Personality Test :

(Co-operation, Leadership, Presentation, confidence)

- i) Semester - III 05 Marks
- ii) Semester-IV 05 Marks

Total 40Marks (20 Marks each Semester)

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External and Internal Evaluation Semester Pattern – 80:20 Marks for M.A. Level
(M.A. II Year)
Sociology

(A) External Evaluation:

- (I) Two long questions with internal choice : 32 Marks
1. 16 Marks
 2. 16 Marks
- (II) Two Semi long questions with internal choice: 32 Marks
1. 16Marks (Two questions each of eight marks out of four)
 2. 16Marks (Two questions each of eight marks out of four)
- (III) Fifth question will be compulsory with questions from each of the four unit 16 Marks
having equal weightage and there will be no internal choice.
1. 16Marks (Four questions each of four marks)

Total 80 Marks

(B) Internal Evaluation :

20 Marks

Total 100 Marks

Minimum passing Marks :

- (A) External Evaluation : 80-32 M.A. – II (Passing Marks)
(B) Internal Evaluation : 20-08 M.A. – II (Passing Marks)

80/100
Pass *Ref* *Ans*

**Syllabus of Choice Based Credit
System for M.A. History**

Semester and Credit Pattern for M.A. Course

From the 2019 on wards

BOARD OF STUDIES IN HISTORY

Syllabus Committee

1. Dr. Raju Kirmire - Working Chairman
2. Dr. G. A. Shambharkar - Member
3. Dr. Rashmi Band - Member
4. Dr. D. N. Kamdi - Member
5. Dr. Sharad Belorkar - Member
6. Dr. Dashrath Ade - Member
7. Dr. Promod Bodhane- Member
8. Dr. B. Chikte - Member
9. Dr. R. V. Ghonmode - Member
10. Dr. Johari - Member
11. Dr. B. Andhare - Member

Semester Pattern Scheme of Examination for MA in History								
MA Part I - Semester 1								
			Examination		Internal Assessment		Total	
			Marks	Credits	Marks	Credits	Marks	Credits
Paper I	Historiography	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper II	a. India Under Sultanate Period or b. India Under Company's Rule 1757-1856 or c. History of India up to 300 B.C.	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper III	a. India Under The Mughals or b. Indian National Movement : 1905-1947	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper IV	Modern World : 1914-1950	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
TOTAL		Full Marks	320	16	80	4	400	20
		Pass Marks	128	6.4	32	1.6	160	8

MA Part I - Semester 2								
			Examination		Internal Assessment		Total	
			Marks	Credits	Marks	Credits	Marks	Credits
Paper I	Trends and Theories of History	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper II	a. Society, Economy and Culture under the Sultans or b. India Under British Rule : 1857-1905 or c. State, Society and Culture of India, 300 B.C. – 500 A.D.	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper III	a. Society, Economy and the Cultures under the Mughals or b. Independent India : 1947-2000	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper IV	Contemporary World : 1950 - 2000	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
TOTAL		Full Marks	320	16	80	4	400	20
		Pass Marks	128	6.4	32	1.6	160	8

MA Part II - Semester 3								
			Examination		Internal Assessment		Total	
			Marks	Credits	Marks	Credits	Marks	Credits
Paper I	Emergence of Maratha Power in 17th Century	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper II	State in Ancient and Medieval India	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper III	a. Economic History of India : 1757-1857 or b. Peasant Movement in Modern India	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
Paper IV	a. History of Medieval Vidarbha or b. History of Tribal Art and Literature or c. Woman in Indian History or d. Pre- Ambedkar Dalit Movement, 1818-1920 or e. Ecology and Environment	Full Marks	80	4	20	1	100	5
		Pass Marks	32	1.6	8	0.4	40	2
TOTAL		Full Marks	320	16	80	4	400	20
		Pass Marks	128	6.4	32	1.6	160	8

MA Part II - Semester 4								
		Full Marks	Marks	Credits	Marks	Credits	Marks	Credits
Paper I	Expansion of Maratha Power : 1707-1818	80	4	20	1	100	5	
		32	1.6	8	0.4	40	2	
Paper II	State in British India	80	4	20	1	100	5	
		32	1.6	8	0.4	40	2	
Paper III	a. Economic History of India : 1858-1947 or	80	4	20	1	100	5	
	b. Labour Movement in India	32	1.6	8	0.4	40	2	
Paper IV	a. History of Modern Vidarbha or	80	4	20	1	100	5	
	b. History of tribes in Colonial India or	32	1.6	8	0.4	40	2	
	c. Woman in Modern Indian History or							
	d. Dalit Movement Under Dr. Ambedkar, 1920-1956 or							
	e. Ecology and Indian Human Societies							
TOTAL		320	16	80	4	400	20	
		128	6.4	32	1.6	160	8	
TOTAL of All 4 Semester		1280	64	320	16	1600	80	
		512	25.6	128	6.4	640	32	

Semester and Credit Pattern for M. A. Course
(From Session 2019-2020)
Gondwana University Gadchiroli
Department of History

A) General

1. Semesters 1 and 2 will be for M. A. Part I and Semesters 3 and 4 will be for M. A. Part II.
2. There will be minimum 90 teaching days in each Semester.
3. There will be 4 papers in each Semester and all papers will be compulsory.
4. Each paper will be of 100 marks, out of which 80 marks will be for University Examination and 20 marks will be for Internal Assessment.

B) Pattern of Question Paper

5. There will be 4 units in each paper and one question will be asked from each unit.
- 6.
7. Maximum marks for each paper will be 80 in University Examination.
8. Duration of examination for each paper will be 3 hours.

C) Internal Assessment

8. In the Internal Assessment of 20 marks for each paper, 10 marks will be for assignments and 10 marks will be for seminar/viva.
9. There will be 5 credits in each paper - 4 credits for University Examination and 1 credit for Internal Assessment.
10. Passing marks for each paper will be 40 (32 marks / 1.6 credits in University Examination and 8 marks / 0.4 credit in Internal Assessment).
11. The students will be required to pass in both University Examination and Internal Assessment separately, and obtain minimum 40 marks to pass in each paper of each Semester.
12. Credits will be calculated on marks obtained out of 100.

D) Absorption Scheme

13. While switching over to Semester system, failed students will be given three chances to clear.
14. In order to get admission to the third Semester, students should clear first Semester. While appearing for fourth Semester examination, a student should have cleared second Semester.
15. The Students of First Year following annual pattern or Semester pattern will get admission to third semester directly provided they pass in First Year Examination.
16. The failed students of M. A. II of annual pattern or Semester pattern, will be admitted to the third Semester.
17. The failed students of M. A. I of annual pattern or Semester pattern, will be admitted to the first Semester.

D) Grade Point Average (GPA) and Course Grade Point Average (CGPA)

18. The student will be given **Grade Point Average (GPA)** for each Semester and **Course Grade Point Average (CGPA)** after completing all 4 Semesters of the M. A. course. The scheme for calculating GPA and CGPA is shown in table below:

Marks Obtained Out Of 100	GPA / CGPA	Grades	Equivalent Class / Division
90-100	9.00 – 10.00	O	First Class (Outstanding)
80-89	8.00 – 8.99	A	First Class (Excellent)
70-79	7.00 – 7.99	B	First Class with Distinction
60-69	6.00 – 6.99	C	First Class
55-59	5.50 – 5.99	D	Higher Second class
50-54	5.00 – 5.49	E	Second Class
40-49	4.00 – 4.99	F	Pass
Below 40			Fail

19. The enclosed chart gives the abstract of Semester Pattern Scheme.

M.A. PART-I
SEMESTER 1

Paper I Core - is compulsory

Paper II Core - one optional paper is compulsory

Paper III Core - one optional paper is compulsory

Paper IV Core - is compulsory

Semester – 1

Paper I Core - Historiography

Paper II Core - a. India Under the Sultanate Period

OR

b. India Under Company's Rule 1757 – 1856

OR

c. History of India up to 300 B.C.

Paper III Core - a. India Under the Mughals

OR

b. Indian National Movement: 1905-1947

Paper IV Core - Modern World: 1914 – 1950

Semester -2

Paper I Core - Trends and Theories of History

Paper II Core - a. Society, Economy and Culture Under the Sultans

OR

b. India Under British Rule: 1857-1905

OR

c. State, Society and Culture of India, 300B.C.-500 A.D.

Paper III Core - a. Society, Economy and Culture Under the Mughals.

OR

b. Independent India: 1947- 2000

Paper IV Core - Contemporary World: 1950 - 2000

Students opting for paper II a. & III a. in semester 1 will have to opt for Paper II a. & III a. in semester 2.

M.A. PART-II
SEMESTER-3

Paper I -is compulsory

Paper II - is compulsory

Paper III - one optional paper is compulsory

Paper IV - Foundation course

SEMESTER 3

Paper I Core - Emergence of Maratha Power in 17th Century

Paper II Core -State in Ancient and Medieval India

Paper III Core Elective –a.Economic History of India: 1757-1857

OR

b. Peasant Movements in Modern India

Paper IV - Foundation course-I (for the students of all disciplines including history)

a. History of Medieval Vidarbha

OR

b. History of Tribal Art and Literature

OR

c. Woman in Indian History

OR

d. Pre- Ambedkar Dalit Movement, 1818-1920

OR

e. Ecology and Environment

M.A. PART-II

SEMESTER- 4

Paper I Core -Expansion of Maratha Power: 1707-1818

Paper II Core - State in British India

Paper III Core Elective – a.Economic History of India: 1858-1947

OR

b. Labour Movement in India

Foundation course-II (for the students of all disciplines including history)

Paper IV -a. History of Modern Vidarbha

OR

b. History of Tribes in Colonial India

OR

c. Woman in Modern Indian History

OR

d Dalit Movement under Dr. Ambedkar, 1920-1956

OR

e. Ecology and Indian Human societies

Total			80	1600
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Note :- L- Lecture T- Tutorial/others- assignment/presentation of one credit for each paper is prescribed in each semester. P- Practical ESE- End Semester Examination IA- Internal Assessment (Two Core Papers And Two Elective Papers to be opted by students each semester. If a student opts 1st part of a paper he shall opt 2nd part of the same paper in the next semester)

1

Gondwana University
MA English (CBCS) Syllabus

Question Paper Pattern

Que. 1 (A): Annotation of passages (2 out of 4) from Units I and II (if the units consist of literary works)

Short notes (2 out of 4) from Units I and II (if the units do not contain literary works) 2X4 marks = 8 marks

(B) Short answer questions (2 out of 4) on Units III and IV 2X4 marks = 8 marks

Que. 2: Long answer question (1 out of 2) on Unit I 16 marks

Que. 3: Long answer question (1 out of 2) on Unit II 16 marks

Que. 4: Long answer question (1 out of 2) on Unit III 16 marks

Que. 5: Long answer question (1 out of 2) on Unit IV 16 marks

TOTAL 80 marks

Internal Assessment

Assignment, attendance/participation, presentation and viva-voce

TOTAL 20marks

M.A.MARATHI SCHEME

Examination Scheme (CBCS)

Subject	Course Scheme			No. of Credits	Examination Scheme						
	L	T/Others	P		Maximum Marks			Minimum Passing Marks			
					ESE	IA	Total	ESE	IA	Total	
Semster I											
CORE I -अर्वाचीनकविताभाग- १ (१८८५ ते १९४५)	4	2	-	(4+1) 5	80	20	100	32	08	40	
CORE II-साहित्यशास्त्र भाग- १	4	2	-	(4+1) 5	80	20	100	32	08	40	
ELECTIVE P.गद्य भाग- १ (प्राचीन)	4	2	-	(4+1) 5	80	20	100	32	08	40	
ELECTIVE P.मराठीवैचारिकनिबंध भाग- १	4	2	-	(4+1) 5	80	20	100	32	08	40	
ELECTIVE P.नाटकभाग- १											
ELECTIVE P.लोकसाहित्य भाग- १											
Semster II											
CORE I -अर्वाचीनकविताभाग-२ (१९४५ ते २०००)	4	2	-	(4+1) 5	80	20	100	32	08	40	
CORE II-साहित्यशास्त्र भाग- २	4	2	-	(4+1) 5	80	20	100	32	08	40	
ELECTIVE P.गद्य भाग- २ (अर्वाचीन)	4	2	-	(4+1) 5	80	20	100	32	08	40	
ELECTIVE P.मराठीवैचारिकनिबंध भाग- २	4	2	-	(4+1) 5	80	20	100	32	08	40	
ELECTIVE P.नाटकभाग- २											
ELECTIVE P.लोकसाहित्य भाग- २											
Semster III											
CORE I -प्राचीन- मध्ययुगीनमराठीकविताभाग- १	4	2	-	(4+1) 5	80	20	100	32	08	40	
CORE II-भाषाविज्ञानभाग- १	4	2	-	(4+1) 5	80	20	100	32	08	40	
ELECTIVE P. विशेषग्रंथकार : तुकारामभाग- १	4	2	-	(4+1) 5	80	20	100	32	08	40	
ELECTIVE P.विशेषग्रंथकार : अण्णाभाऊसाठेभाग- १											
ELECTIVE P.मराठीवाङ्.मयाचाइतिहासभाग- १ (आरंभापासून तेइ.स. १८१८ पर्यंत)	4	2	-	(4+1) 5	80	20	100	32	08	40	
ELECTIVE P.नवेवाङ्.मय प्रवाहभाग १ : दलित व स्त्रीवादीसाहित्य											
Semster IV											
CORE I -प्राचीन- मध्ययुगीनमराठीकविताभाग- २	4	2	-	(4+1) 5	80	20	100	32	08	40	
CORE II-भाषाविज्ञानभाग- २	4	2	-	(4+1) 5	80	20	100	32	08	40	
ELECTIVE P.विशेषग्रंथकार : तुकारामभाग- २	4	2	-	(4+1) 5	80	20	100	32	08	40	
ELECTIVE P.विशेषग्रंथकार : अण्णाभाऊसाठे भाग-२											
ELECTIVE P.मराठीवाङ्.मयाचाइतिहास भाग-२ (१८१८ ते २०००)	4	2	-	(4+1) 5	80	20	100	32	08	40	
ELECTIVE P.नवेवाङ्.मय प्रवाहभाग २ : ग्रामीण व आदिवासीसाहित्य											
Total					80				1600		

Note :-L- Lecture T- Tutorial P- Practical ESE- End Semester Examination IA- Internal Assessment
(Two Core Paper And Two Elective Paper)

Others- Two hours per week of assignment/presentation of one credit for each paper is prescribed in each semester.

गोंडवाना विद्यापीठ, गडचिरोली

अभ्यासक्रम २०१६-१७

मराठी वाङ्.मय पारंगत

एम.ए. मराठी सत्र १, २.

एम.ए.सत्र १,२,३,४ करिता मराठी वाङ्.मय पारंगत,सर्व विषयाच्या पत्रिकांची गुण विभागणी खालील प्रमाणे राहिल.

१. प्रत्येक सत्राकरिता लेखी परीक्षा ८० गुण
२. प्रत्येक सत्राकरिता अंतर्गत २० गुण
३. दीर्घोत्तरी चार प्रश्न (लेखी परीक्षा) ६० गुण
४. लघुत्तरी दोन प्रश्न (लेखी परीक्षा) —गट अटिपा (चार पैकी दोन सोडवा) १० गुण
गट बवस्तुनिष्ठ बहुपर्यायी १०प्रश्न १०गुण

प्रश्नपत्रिकेचे स्वरूप(लेखी ८०गुण)

प्रश्न १ दीर्घोत्तरी प्रश्न — घटक — १ (पर्यायी)	१५ गुण
प्रश्न २ दीर्घोत्तरी प्रश्न —घटक — २ (पर्यायी)	१५ गुण
प्रश्न ३ दीर्घोत्तरी प्रश्न —घटक — ३ (पर्यायी)	१५ गुण
प्रश्न ४ दीर्घोत्तरी प्रश्न —घटक — ४ (पर्यायी)	१५ गुण
प्रश्न ५ पुढील प्रश्नांची उत्तरे लिहा.(चारही घटकांवर प्रश्न)	
गट 'अ' टीपा लिहा (चारपैकी दोन सोडवा)	१० गुण
गट 'ब' वस्तुनिष्ठ बहुपर्यायी दहा प्रश्न (प्रत्येकी एक गुण, प्रत्येक प्रश्नाची चार पर्यायी उत्तरे)	१० गुण

अंतर्गत २० गुणांची विभागणी—

१. वर्गात नियमित उपस्थिती ०५ गुण
२. लघुप्रकल्प १० गुण
३. मौखिक परीक्षा ०५ गुण

टीप:—

१. प्रत्येक सत्राला CORE 1, CORE 2 हे पेपर घेणे आवश्यक आहे. याशिवाय ELECTIVE पेपर पैकी दोन पेपर निवडावे लागेल.

२. एका सत्राला एकूण चार पेपर ४०० गुणांचे राहतील.

३. ऐच्छिक (ELECTIVE) गटामध्ये पहिल्या सत्रात घेतलेल्या एका विशिष्ट पेपरचा भाग १ निवडल्यानंतर पुढील सत्रात त्याच पेपरचा भाग २ घेणे अनिवार्य.

एम.ए. भाग १ — सत्र पहिले

Core I आवश्यक पत्रिका

अर्वाचीन कविता भाग— १ (१८८५ ते १९४५)

घटक १— • अर्वाचीन कविता : संकल्पना, उगम आणि विकास

• प्रमुख अर्वाचीन काव्यप्रकारांचा परिचय.

घटक २— • हरपले श्रेय(केशवसुतांची निवडक कविता) — संपा. रा.श्री.जोग

घटक ३— • फुलराणी (बालकवींची कविता) — संपा. कुसुमाग्रज

घटक ४— • सुरेश भट ह्यांची निवडक कविता — संपा.शिरीष पै

संदर्भग्रंथ—

१. कविता : संकल्पना, निर्मिती आणि समीक्षा — डॉ.वसंत पाटणकर
२. मराठी कविता : स्वरूप आणि विवेचन — डॉ.निशिकांत ठकार
३. मराठी कविता आणि आधुनिकता — डॉ.यशवंत मनोहर
४. अर्वाचीन मराठी काव्यदर्शन — डॉ.अक्षयकुमार काळे
५. कविता आणि प्रतिमा — डॉ.सुधीर रसाळ
६. रसग्रहण : कला आणि स्वरूप — डॉ.गो.म.कुलकर्णी
७. मराठी काव्याचे मानदंड : भाग १ व भाग २ — डॉ.स.रा.गाडगीळ
८. दोन परंपरा — डॉ.द.भि.कुळकर्णी
९. कवितेविषयी — संपा.प्रा.वसंत आबाजी डहाके
१०. केशवसुत समीक्षा — संपा.डॉ.नाडकर्णी, कामत व इतर
११. बालकवींचे काव्यविश्व — डॉ.म.सु.पाटील
१२. बालकवींची कविता : तीन संदर्भ — डॉ.रमेश तेंडुलकर
१३. निवडक मराठी समीक्षा — संपा.डॉ.गो.मा.पवार, डॉ.म.द.हातकणांगलेकर
१४. प्रतीति विभ्रम — डॉ.अक्षयकुमार काळे
१५. सुरेश भट : नवे आकलन — डॉ.द.भि.कुळकर्णी
१६. मराठी कविता आणि आधुनिकता — डॉ.यशवंत मनोहर

Board of Studies in Physics
FACULTY OF SCIENCE
GONDWANA UNIVERSITY, GADCHIROLI

Syllabus of

M.Sc.First Year (Semester pattern)
(Choice Based Credit System)

SUBJECT - PHYSICS

Semester I & Semester II

Syllabus for M. Sc. Physics

Choice Based Credit System (Semester Pattern)
Gondwana University, Gadchiroli
Effective from 2016-2017

Scheme of teaching and examination under semester pattern Choice Based Credit System (CBCS) for M.Sc. Program in subjects Physics

Semester I;

Core	Theory / Practical	Teaching Scheme			Credit	Examination Scheme					
		Hrs/ week				Duration in hrs.	Max. Marks			Minimum Marks	
		Theory	Practical	Total			External	Internal	Total	Theory	Practical
Core 1 (PSCPH YT01)	Paper 1 Mathematical Physics	4	-	4	4	3	80	20	100	40	
Core 2 (PSCPH YT02)	Paper 2 Complex Analysis and Numerical method	4	-	4	4	3	80	20	100	40	
Core 3 (PSCPH YT03)	Paper 3 Electronics	4	-	4	4	3	80	20	100	40	
Core 4 (PSCPH YT04)	Paper 4 Electrodynamics I	4	-	4	4	3	80	20	100	40	
Pract. Core 1 & 2 (PSCPH YP01 & P02)	Practical 1 (Paper 1 & 2)	-	8	8	4	3-8*	80	20	100	40	40
Pract. Core 3 & 4 (PSCPH YP03 & P04)	Practical 2 (paper 3 & 4)	-	8	8	4	3-8*	80	20	100	40	40
Seminar 1	Seminar 1	2	-	2	1			25	25	10	
TOTAL		18	16	34	25		480	145	625	170	80

Semester II:

Core	Theory / Practical	Teaching Scheme			Credit	Examination Scheme					
		Hrs/ week				Duration in hrs.	Max. Marks		Total	Minimum Marks	
		Theory	Practical	Total			External	Internal		Theory	Practical
Core 5 (PSCPHY T05)	Paper 5 Quantum Mechanics I	4	-	4	4	3	80	20	100	40	
Core 6 (PSCPHY T06)	Paper 6 Statistical Physics	4	-	4	4	3	80	20	100	40	
Core 7 (PSCPH YT07)	Paper 7 Classical Mechanics	4	-	4	4	3	80	20	100	40	
Core 8 (PSCPHY T08)	Paper 8 Electrodynamics II	4	-	4	4	3	80	20	100	40	
Pract. Core 5 & 6 (PSCPHY P05 & P06)	Practical 3 (Paper 5 & 6)	-	8	8	4	3-8*	80	20	100	40	40
Pract. Core 7 & 8 (PSCPHY P07 & P08)	Practical 4 (Paper 7 & 8)	-	8	8	4	3-8*	80	20	100	40	40
Seminar 2	Seminar 2	2	-	2	1			25	25	10	
TOTAL		18	16	34	25		480	145	625	170	80

Seminar
Guidelines for Students, Supervisors and Examiners

In each semester, the student will have to deliver a seminar on any topic relevant to the syllabus / subject encompassing the recent trends and development in that field / subject. The topic of the seminar will be decided at the beginning of each semester in consultation with the supervising teachers. The student has to deliver the seminar which will be followed by discussion. The seminar will be open to all the teachers of the department, invitees, and students.

The students should submit the seminar report typed and properly bound in one copy to the head of the department. The said shall be evaluated by the concerned supervisor / head of the department. The marks of the seminar shall be forwarded to the university within due period through head of the Department. The record of the seminar should be preserved till the declaration of the final result.

Internal Assessment:

1. The internal assessment marks shall be awarded by the concerned teacher.
2. The internal assessment marks shall be sent to the University after the Assessment in the prescribed format.
3. For the purpose of internal assessment the University Department / College shall conduct any three assignments described below. Best two scores of a student in these tests shall be considered to obtain the internal assessment score of that student.
4. If the student does not appear for the Practical Exam he shall be declared failed in Practical Examination irrespective of marks obtained in Internal Practical Assessment. However the Internal Practical Assessment marks will be carried forward for his next supplementary Practical Exam.
5. General guidelines for Internal Assessment are:
 - a) The internal assessment marks assigned to each theory paper as mentioned in Appendix 1 shall be awarded on the basis of assignments like class test, attendance, home assignments, study tour, industrial visits, visit to educational institutions and research organizations, field work, group discussions or any other innovative practice / activity.
 - b) There shall be three assignments (as described above) per course.
 - c) There shall be no separate / extra allotment of work load to the teacher concerned. He/ She shall conduct the internal assessment activity during the regular teaching days / periods as a part of regular teaching activity.
 - d) The concerned teacher / department / college shall have to keep the record of all the above activities until six months after the declaration of the results of that semester.
 - e) **At the beginning of each semester, every teacher / department / college shall inform his / her students unambiguously the method he / she propose to adopt and the scheme of marking for internal assessment. (Prescribed in syllabus of respective Subjects).
 - f) Teacher shall announce the schedule of activity for internal assessment in advance in consultation with HOD / Principal.

Practical Examination

1. Each practical carries 100(80 Pr+20 Int) marks. The scheme of marking shall be as per given in the syllabi of respective subjects.
2. Practical performance shall be jointly evaluated by the External and Internal Examiner. In case of discrepancy, the External Examiner's decision shall be final.
3. Duration of practical examination will be as per given in the syllabi of respective subjects.
4. The Practical Record of every student shall carry a certificate as shown below, duly signed by the teacher-in-charge and the Head of the Department. If the student fails to submit his / her certified Practical Record duly signed by the Teacher-In-Charge and the Head of the Department, he / she shall not be allowed to appear for the Practical Examination and no Marks shall be allotted to the student.
5. The certificate template shall be as follows:

CERTIFICATE

Name of the college / institution _____

Name of the Department: _____

This is to certify that this Practical Record contains the bonafide record of the Practical work of Shri / Shrimati / Kumari _____ of M. Sc. _____

_____ Semester _____ during the academic year _____. The candidate has satisfactorily completed the experiments prescribed by Gondwana University Gadchiroli for the subject _____

Dated ____ / ____ / _____

Signature of the teacher who taught the examinee

Head of the Department

1. _____

2. _____

General Rules and Regulations regarding pattern of question paper for the semester end examination:

A) Pattern of Question Paper

1. There will be four units in each paper.
2. Maximum marks of each theory paper will be 80.
3. Question paper will consist of five questions, each of 16 marks.
4. Four questions will be on four units with internal choice (One question on each unit).
5. Fifth question will be compulsory with questions from each of the four units having equal weightage and there will be no internal choice.

Revised Syllabus to be implemented from 2016-17 Choice Based Credit System (CBCS)

M.Sc. Physics Semester I

1. (Core 1) Paper 1: Mathematical Physics
2. (Core 2) Paper 2: Complex Analysis and Numerical Methods
3. (Core 3) Paper 3: Electronics
4. (Core 4) Paper 4: Electrodynamics I

M.Sc. Physics Semester II

1. (Core 5) Paper 5: Quantum Mechanics-I
2. (Core 6) Paper 6: Statistical Physics
3. (Core 7) Paper 7: Classical Mechanics
4. (Core 8) Paper 8: Electrodynamics II

Board of Studies in Physics
FACULTY OF SCIENCE
GONDWANA UNIVERSITY, GADCHIROLI

Syllabus of

M.Sc. Second Year (Semester Pattern)
(Choice Based Credit System)

SUBJECT - PHYSICS

Semester III & Semester IV

Syllabus for M. Sc. Physics

Choice Based Credit System (Semester Pattern)
Gondwana University, Gadchiroli
Effective from 2016-2017

Scheme of teaching and examination under semester pattern Choice Based Credit System (CBCS) for M.Sc. Program in subjects Physics Semester III;

Core	Theory / Practical	Teaching Scheme			Credit	Examination Scheme					
		Hrs/ week				hr s. Duration	Max. Marks		Total	Minimum Marks	
		Theory	Practical	Total			External	Internal		Theory	Practical
Core 9 (PSCPH YT09)	Paper 9 Quantum Mechanics II	4	-	4	4	3	80	20	100	40	
Core 10 (PSCPH YT10)	Paper 10 Solid State Physics and Spectroscopy	4	-	4	4	3	80	20	100	40	
Core Elective I (PSCPH YT11)	Paper11 Material Science I OR Nanoscience and Nanotechnology I OR Atomic and Molecular Physics I	4	-	4	4	3	80	20	100	40	
Foundatio n Course I (PSCPH YT12)	Paper 12 Fundamental of Spectroscopy OR Fundamental of Nanoscience and Nanotechnology	4	-	4	4	3	80	20	100	40	
Practical.5	Practical 5 (Based on Core 9 & 10)	-	8	8	4	3-8*	80	20	100		40
Practical. Elective I	Practical 6	-	8	8	4	3-8*	80	20	100		40
Seminar 3	Seminar 3	2	-	2	1			25	25	10	
TOTAL		18	16	34	25		480	145	625	170	80

Semester IV:

Core	Theory / Practical	Teaching Scheme			Credit	Examination Scheme					
		Hrs/ week				Duration in hrs	Max. Marks			Minimum Marks	
		Theory	Practical	Total			External	Internal	Total	Theory	Practical
Core 11 (PSCPHY T11)	Paper 13 Nuclear and Particle Physics	4	-	4	4	3	80	20	100	40	
Core 12 (PSCPHY T12)	Paper 14 Solid State Physics	4	-	4	4	3	80	20	100	40	
Core Elective II (PSCPH YT15)	Paper 15 Material Science II OR Nanoscience and Nanotechnology II OR Atomic and Molecular Physics II	4	-	4	4	3	80	20	100	40	
Fundation Course II	Paper 16 Spectroscopic Applications OR Optics and Optical instruments	4	-	4	4	3	80	20	100	40	
Practical.	Practical 7 (Based on Core 11, 12 and Elective II)	-	8	8	4	3-8*	80	20	100		40
Project	Project	-	8	8			80	20	100		40
Seminar 4	Seminar 4	2	-	2	1			25	25	10	
TOTAL		18	16	34	25		480	145	625	170	80

Seminar

Guidelines for Students, Supervisors and Examiners

In each semester, the student will have to deliver a seminar on any topic relevant to the syllabus / subject encompassing the recent trends and development in that field / subject. The topic of the seminar will be decided at the beginning of each semester in consultation with the supervising teachers. The student has to deliver the seminar which will be followed by discussion. The seminar will be open to all the teachers of the department, invitees, and students.

The students should submit the seminar report typed and properly bound in one copy to the head of the department. The said shall be evaluated by the concerned supervisor / head of the department. The marks of the seminar shall be forwarded to the university within due period through head of the Department. The record of the seminar should be preserved till the declaration of the final result.

Internal Assessment:

1. The internal assessment marks shall be awarded by the concerned teacher.
2. The internal assessment marks shall be sent to the University after the Assessment in the prescribed format.
3. For the purpose of internal assessment the University Department / College shall conduct any three assignments described below. Best two scores of a student in these tests shall be considered to obtain the internal assessment score of that student.
4. If the student does not appear for the Practical Exam he shall be declared failed in Practical Examination irrespective of marks obtained in Internal Practical Assessment. However the Internal Practical Assessment marks will be carried forward for his next supplementary Practical Exam.
5. General guidelines for Internal Assessment are:
 - a) The internal assessment marks assigned to each theory paper as mentioned in Appendix 1 shall be awarded on the basis of assignments like class test, attendance, home assignments, study tour, industrial visits, visit to educational institutions and research organizations, field work, group discussions or any other innovative practice / activity.
 - b) There shall be three assignments (as described above) per course.
 - c) There shall be no separate / extra allotment of work load to the teacher concerned. He/ She shall conduct the internal assessment activity during the regular teaching days / periods as a part of regular teaching activity.
 - d) The concerned teacher / department / college shall have to keep the record of all the above activities until six months after the declaration of the results of that semester.
 - e) ****At the beginning of each semester, every teacher / department / college shall inform his / her students unambiguously the method he / she propose to adopt and the scheme of marking for internal assessment. (Prescribed in syllabus of respective Subjects).**
 - f) Teacher shall announce the schedule of activity for internal assessment in advance in consultation with HOD / Principal.

Practical Examination

1. Each practical carries 100(80 Pr+20 Int) marks. The scheme of marking shall be as per given in the syllabi of respective subjects.
2. Practical performance shall be jointly evaluated by the External and Internal Examiner. In case of discrepancy, the External Examiner's decision shall be final.
3. Duration of practical examination will be as per given in the syllabi of respective subjects.
4. The Practical Record of every student shall carry a certificate as shown below, duly signed by the teacher-in-charge and the Head of the Department. If the student fails to submit his / her certified Practical Record duly signed by the Teacher-In-Charge and the Head of the Department, he / she shall not be allowed to appear for the Practical Examination and no Marks shall be allotted to the student.

**GONDWANA UNIVERSITY
GADCHIROLI**

SYLLABUS
For
M. Sc.
BOTANY
SEMESTER I & II

Under
Choice Based Credit System
(CBCS)

(With effect from : 2016-17)

Scheme of teaching and examination under semester pattern Choice Based Credit System (CBCS) for M.Sc. Program in Botany.

Semester I

Core	Theory / Practical	Teaching Scheme			Credit	Examination Scheme					
		Hrs/ week				Duration in hrs.	Max. Marks		Total	Minimum Marks	
		Theory	Practical	Total			External	Internal		Theory	Practical
PSCBOTT01	Paper - I	4	-	4	4	3	80	20	100	40	
PSCBOTT02	Paper - II	4	-	4	4	3	80	20	100	40	
PSCBOTT03	Paper -III	4	-	4	4	3	80	20	100	40	
PSCBOTT04	Paper - IV	4	-	4	4	3	80	20	100	40	
Pract. - I PSCBOTP01	Practical - I	-	8	8	4	6	80	20	100	40	40
Pract. - II PSCBOTP02	Practical - II	-	8	8	4	6	80	20	100	40	40
Seminar - I	Seminar - I	2	-	2	1			25	25	10	
TOTAL		18	16	34	25		480	145	625	170	80

Semester II

Core	Theory / Practical	Teaching Scheme			Credit	Examination Scheme					
		Hrs/ week				Duration in hrs.	Max. Marks		Total	Minimum Marks	
		Theory	Practical	Total			External	Internal		Theory	Practical
PSCBOTT05	Paper - V	4	-	4	4	3	80	20	100	40	
PSCBOTT06	Paper - VI	4	-	4	4	3	80	20	100	40	
PSCBOTT07	Paper -VII	4	-	4	4	3	80	20	100	40	
PSCBOTT08	Paper -VIII	4	-	4	4	3	80	20	100	40	
Pract. - III PSCBOTP03	Practical - III	-	8	8	4	6	80	20	100	40	40
Pract. - IV PSCBOTP04	Practical - IV	-	8	8	4	6	80	20	100	40	40
Seminar - II	Seminar - II	2	-	2	1			25	25	10	
TOTAL		18	16	34	25		480	145	625	170	80

Project Work/Dissertation Scheme / Guidelines for the Students, Supervisors and Examiners

Every student is required to carry out a project work in semester IV. The project can be of following types. A) Experimental Project Work; OR B) Field Based Project Work; OR C) Review writing based Project Work.

Experimental Project Work and Field Based Project Work:

Student can carry out Experimental / Field Based Project Work on a related research topic of the subject/course. It must be an original work and must indicate some degree of experimental work / Field work. On the basis of this work, student must submit the Project Report (typed and properly bound) in two copies at least one month prior to commencement of the final Practical / lab Examination of Semester IV. The project report shall comprise of Introduction, Material and Methods, Results, Discussion, Summary, Conclusion and, References along with the declaration by the candidate that the work is original and not submitted to any University or Organization for award of the degree and certificate by the supervisor and forwarded through Head / Course-coordinator / Director of the Department / Centre or the Principal of the College.

Review writing based Project Work.

Student can carry out review writing Based Project Work on a related topic of the subject / course. It must be a review of topic based on research publications. Student shall refer peer reviewed original research publications and based on findings, write a summary of the same. The pattern of review writing shall be based on reputed reviews published in a standard, peer reviewed journals. On the basis of this work, student must submit the Project Report (typed and properly bound) in two copies at least one month prior to commencement of the final Practical / lab Examination of Semester IV. The project report shall comprise of Abstract, Introduction, detailed review, Discussion, Summary, Conclusion and, References along with the declaration by the candidate that the work is original and not submitted to any University or Organization for award of the degree and certificate by the supervisor and forwarded through Head / Course-coordinator / Director of the Department / Centre or the Principal of the College.

*The supervisors for the Project Work shall be from the following.

A person shall be an approved faculty member in the relevant subject.

OR

Scientists of National Laboratories / Regional Research Laboratories/ Experts from R&D in Industry who are approved by competent authority in such facilities by the Union Government / the State Government / Gondwana University / Other Universities recognized by UGC.

The Project Work will carry total 100 marks and will be evaluated by both external and internal examiner in the respective Department / Center / Affiliated College.

The examiners will evaluate the Project Work/Dissertation taking into account the coverage of subject matter, arrangement and presentation, references, etc.

For written Project work	40	Marks – Evaluated jointly by External & Internal examiner
Oral Presentation	20	Marks – Evaluated jointly by External & Internal examiner
For Viva-Voce	20	Marks – Evaluated by External examiner
Internal Assessment	20	Marks – Evaluated by Internal examiner
Total	100	

Seminar

Guidelines for Students, Supervisors and Examiners

In each semester, the student will have to deliver a seminar on any topic relevant to the syllabus / subject encompassing the recent trends and development in that field / subject. The topic of the seminar will be decided at the beginning of each semester in consultation with the supervising teachers. The student has to deliver the seminar which will be followed by discussion. The seminar will be open to all the teachers of the department, invitees, and students.

The students should submit the seminar report typed and properly bound in two copies to the head of the department. The said shall be evaluated by the concerned supervisor / head of the department. The marks of the seminar shall be forwarded to the university within due period through head of the Department. The record of the seminar should be preserved till the declaration of the final result.

Internal Assessment:

1. The internal assessment marks shall be awarded by the concerned teacher.
2. The internal assessment marks shall be sent to the University after the Assessment in the prescribed format.
3. For the purpose of internal assessment the University Department / College shall conduct any three assignments described below. Best two scores of a student in these tests shall be considered to obtain the internal assessment score of that student.
4. If the student does not appear for the Practical Exam he shall be declared failed in Practical Examination irrespective of marks obtained in Internal Practical Assessment. However the Internal Practical Assessment marks will be carried forward for his next supplementary Practical Exam.
5. General guidelines for Internal Assessment are:
 - a) The internal assessment marks assigned to each theory paper as mentioned in Appendix 1 shall be awarded on the basis of assignments like class test, attendance, home assignments, study tour, industrial visits, visit to educational institutions and research organizations, field work, group discussions or any other innovative practice / activity.
 - b) There shall be three assignments (as described above) per course.
 - c) There shall be no separate / extra allotment of work load to the teacher concerned. He/ She shall conduct the Internal assessment activity during the regular teaching days / periods as a part of regular teaching activity.
 - d) The concerned teacher / department / college shall have to keep the record of all the above activities until six months after the declaration of the results of that semester.
 - e) At the beginning of each semester, every teacher / department / college shall inform his / her students unambiguously the method he / she proposes to adopt and the scheme of marking for internal assessment. (Prescribed in syllabus of respective Subjects).
 - f) Teacher shall announce the schedule of activity for internal assessment in advance in consultation with HOD / Principal.

Practical Examination

1. Each practical carries 100 marks. The scheme of marking shall be as per given in the syllabi of respective subjects.
2. Practical performance shall be jointly evaluated by the External and Internal Examiner. In case of discrepancy, the External Examiner's decision shall be final.
3. Duration of practical examination will be as per given in the syllabi of respective subjects.
4. The Practical Record of every student shall carry a certificate as shown below, duly signed by the teacher-in-charge and the Head of the Department. If the student fails to submit his / her certified Practical Record duly signed by the Teacher-In-Charge and the Head of the Department, he / she shall not be allowed to appear for the Practical Examination and no Marks shall be allotted to the student.

**GONDWANA UNIVERSITY
GADCHIROLI**

**SYLLABUS
For
M. Sc.
BOTANY
SEMESTER III & IV**

**Under
Choice Based Credit System
(CBCS)
(With effect from: 2017-18)**

Scheme of teaching and examination under semester pattern Choice Based Credit System (CBCS) for M.Sc. Program in Botany.

Semester III

Core	Theory/ Practical	Teaching Scheme			Credit	Examination Scheme					
		Hrs/week				Duration in hrs.	Max. Marks		Total	Min. Marks	
		Theory	Practical	Total			External	Internal		Theory/ Seminar	Practical
PSCBOTT09	Paper - IX	4	-	4	4	3	80	20	100	40	
PSCBOTT10	Paper - X	4	-	4	4	3	80	20	100	40	
PSDBOTT11	Paper - XI	4	-	4	4	3	80	20	100	40	
PSSBOTT12	Paper - XII	4	-	4	4	3	80	20	100	40	
Pract-V PSCBOTP05	Practical - V	-	8	8	4	6	80	20	100		40
Pract-VI PSDBOTP06	Practical - VI	-	8	8	4	6	80	20	100		40
Seminar - III	Seminar - III	2	-	2	1			25	25	10	
TOTAL		18	16	34	25		480	145	625	170	80

Semester IV

Core	Theory/ Practical	Teaching Scheme			Credit	Examination Scheme					
		Hrs/week				Duration in hrs.	Max. Marks		Total	Min. Marks	
		Theory	Practical	Total			External	Internal		Theory/ Seminar	Practical
PSCBOTT13	Paper - XIII	4	-	4	4	3	80	20	100	40	
PSCBOTT14	Paper - XIV	4	-	4	4	3	80	20	100	40	
PSDBOTT15	Paper - XV	4	-	4	4	3	80	20	100	40	
PSSBOTT16	Paper - XVI	4	-	4	4	3	80	20	100	40	
Pract-VII PSCDBOTP07	Practical - VII	-	8	8	4	6	80	20	100		40
Pract-VIII PSPBOTP08	Practical - VIII	-	8	8	4	6	80	20	100		40
Seminar - IV	Seminar - IV	2	-	2	1			25	25	10	
TOTAL		18	16	34	25		480	145	625	170	80

Project Work/Dissertation Scheme / Guidelines for the Students, Supervisors and Examiners

Every student is required to carry out a project work in semester IV. The project can be of following types. A) Experimental Project Work; OR B) Field Based Project Work; OR C) Review writing based Project Work.

Experimental Project Work and Field Based Project Work:

Student can carry out Experimental / Field Based Project Work on a related research topic of the subject /course. It must be an original work and must indicate some degree of experimental work / Field work. On the basis of this work, student must submit the Project Report (typed and properly bound) in two copies at least one month prior to commencement of the final Practical / lab Examination of Semester IV. The project report shall comprise of Introduction, Material and Methods, Results, Discussion, Summary, Conclusion and, References along with the declaration by the candidate that the work is original and not submitted to any University or Organization for award of the degree and certificate by the supervisor and forwarded through Head / Course-coordinator / Director of the Department / Centre or the Principal of the College.

Review writing based Project Work.

Student can carry out review writing Based Project Work on a related topic of the subject / course. It must be a review of topic based on research publications. Student shall refer peer reviewed original research publications and based on findings, write a summary of the same. The pattern of review writing shall be based on reputed reviews published in a standard, peer reviewed journals. On the basis of this work, student must submit the Project Report (typed and properly bound) in two copies at least one month prior to commencement of the final Practical / lab Examination of Semester IV. The project report shall comprise of Abstract, Introduction, detailed review, Discussion, Summary, Conclusion and, References along with the declaration by the candidate that the work is original and not submitted to any University or Organization for award of the degree and certificate by the supervisor and forwarded through Head / Course-coordinator / Director of the Department / Centre or the Principal of the College.

*The supervisors for the Project Work shall be from the following.

A person shall be an approved faculty member in the relevant subject.

OR

Scientists of National Laboratories / Regional Research Laboratories/ Experts from R&D in Industry who are approved by competent authority in such facilities by the Union Government / the State Government / Gondwana University / Other Universities recognized by UGC.

The Project Work will carry total 100 marks and will be evaluated by both external and internal examiner in the respective Department / Center / Affiliated College.

The examiners will evaluate the Project Work/Dissertation taking into account the coverage of subject matter, arrangement and presentation, references, etc.

For written Project work	40	Marks – Evaluated jointly by External & Internal examiner
Oral Presentation	20	Marks – Evaluated jointly by External & Internal examiner
For Viva-Voce	20	Marks – Evaluated by External examiner
Internal Assessment	20	Marks – Evaluated by Internal examiner

Total	100	
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Seminar

Guidelines for Students, Supervisors and Examiners

In each semester, the student will have to deliver a seminar on any topic relevant to the syllabus / subject encompassing the recent trends and development in that field / subject. The topic of the seminar will be decided at the beginning of each semester in consultation with the supervising teachers. The student has to deliver the seminar which will be followed by discussion. The seminar will be open to all the teachers of the department, invitees, and students.

The students should submit the seminar report typed and properly bound in two copies to the head of the department. The said shall be evaluated by the concerned supervisor / head of the department. The marks of the seminar shall be forwarded to the university within due period through head of the Department. The record of the seminar should be preserved till the declaration of the final result.

Internal Assessment:

1. The internal assessment marks shall be awarded by the concerned teacher.
2. The internal assessment marks shall be sent to the University after the Assessment in the prescribed format.
3. For the purpose of internal assessment the University Department / College shall conduct any three assignments described below. Best two scores of a student in these tests shall be considered to obtain the internal assessment score of that student.
4. If the student does not appear for the Practical Exam he shall be declared failed in Practical Examination irrespective of marks obtained in Internal Practical Assessment. However the Internal Practical Assessment marks will be carried forward for his next supplementary Practical Exam.
5. General guidelines for Internal Assessment are:
 - a) The internal assessment marks assigned to each theory paper as mentioned in Appendix 1 shall be awarded on the basis of assignments like class test, attendance, home assignments, study tour, industrial visits, visit to educational institutions and research organizations, field work, group discussions or any other innovative practice / activity.
 - b) There shall be three assignments (as described above) per course.
 - c) There shall be no separate / extra allotment of work load to the teacher concerned. He/ She shall conduct the Internal assessment activity during the regular teaching days / periods as a part of regular teaching activity.
 - d) The concerned teacher / department / college shall have to keep the record of all the above activities until six months after the declaration of the results of that semester.
 - e) At the beginning of each semester, every teacher / department / college shall inform his / her students unambiguously the method he / she proposes to adopt and the scheme of marking for internal assessment. (Prescribed in syllabus of respective Subjects).
 - f) Teacher shall announce the schedule of activity for internal assessment in advance in consultation with HOD / Principal.

Practical Examination

1. Each practical carries 100 marks. The scheme of marking shall be as per given in the syllabi of respective subjects.
2. Practical performance shall be jointly evaluated by the External and Internal Examiner. In case of discrepancy, the External Examiner's decision shall be final.
3. Duration of practical examination will be as per given in the syllabi of respective subjects.
4. The Practical Record of every student shall carry a certificate as shown below, duly signed by the teacher-in-charge and the Head of the Department. If the student fails to submit his / her certified Practical Record duly signed by the Teacher-In-Charge and the Head of the Department, he / she shall not be allowed to appear for the Practical Examination and no Marks shall be allotted to the student.

5. The certificate template shall be as follows:

CERTIFICATE

Name of the college / institution _____

Name of the Department: _____

This is to certify that this Practical Record contains the bonafide record of the Practical work of Shri / Shrimati / Kumari _____ of M. Sc. _____

Semester _____ during the academic year _____. The candidate has satisfactorily completed the experiments prescribed by Gondwana University Gadchiroli for the subject _____

Dated ____ / ____ / _____

Signature of the teacher who taught the examinee

Head of the Department

1. _____

2. _____

**Practical Schedule:
Semester III
PRACTICAL V**

Course code: PSCBOTP05

Credit - 04

Time : 6 Hours

Full marks : 80

Q. 1 To perform the given Ecological exercise - [A]	15
Q. 2 Soil analysis/Ecological adaptation - [B]	10
Q. 3 One experiment from paper X - [C]	15
Q. 4 One experiment from paper X - [D]	10
Q. 5 Spotting: [E] (Paper IX), [F] (Paper IX), [G] (Paper X), [H] (Paper X)	20
Q. 6 Viva-voce	05
Q. 7 Practical Record	05

**Semester III
PRACTICAL VI**

Course code: PSDBOTP06

Credit - 04

Time : 6 Hours

Full marks : 80

Q. 1 Experiment from Major Exercise	15
Q. 2 Experiment from Minor Exercise	10
Q. 3 Experiment from Major Exercise	15
Q. 4 Experiment from Minor Exercise	10
Q. 5 Spotting: E (Major Exercise), F (Minor Exercise), G (Major Exercise), H (Minor Exercise)	20
Q. 6 Viva-voce	05

GONDWANA UNIVERSITY, GADCHIROLI

M.Sc.-I Semester I, II (Chemistry)

(Effective from 2016-17)

1. There will be four theory papers in every semester which will carry 80 marks each of 3 hrs. duration.
2. There will be internal assessment of 20 marks per paper per semester.
3. Each paper per semester with total of 100 marks(80+20 i.e. theory+internal assessment) will carry 4 credits.
4. The internal assessment will be based on Attendance, Home assignment, Unit test Terminal test and participation in departmental activities.
5. There will be two practical examinations in each semester i.e. Pract I and Pract II of 6-8 hours duration of 80 marks with 4 credits each.
6. In each semester, the student will have to deliver a seminar on any topic relevant to the syllabus / subject encompassing the recent trends and development in that field / subject. This will carry 25 marks per seminar with one credit.
7. So, the total marks allotted to the Chemistry subject per semester is 625 marks:
Theory (320 marks) + Internal assessment (120 marks) + Practicals (160 Marks)+ Seminar (25Marks)= 625marks (total)
8. Each theory paper consists of four units of fifteen hours per unit.

The following syllabi are prescribed on the basis of four hours per week of each paper and nine practical periods per batch per week.

Scheme of Examination for M.Sc. (Chemistry)

Semester I	Internal Assessment	Total Marks	Credits
PSCChT01: Paper I (Inorganic Chemistry)	20 Marks	80 Marks	4 Credits
PSCChT02: Paper II (Organic Chemistry)	20 Marks	80 Marks	4 Credits
PSCChT03: Paper III (Physical Chemistry)	20 Marks	80 Marks	4 Credits
PSCChT04: Paper IV (Analytical Chemistry)	20 Marks	80 Marks	4 Credits
PSCChP01: Practical-I (Inorganic Chemistry)	20 Marks	80 Marks	4 Credits
PSCChP02: Practical-II (Organic Chemistry)	20 Marks	80 Marks	4 Credits
PSCChP03: Seminar-I	----	25 Marks	1 Credits
Total:	120 Marks	505 Marks	25 Credits

Semester II

PSCChT05: Paper V (Inorganic Chemistry)	20 Marks	80 Marks	4 Credits
PSCChT06: Paper VI (Organic Chemistry)	20 Marks	80 Marks	4 Credits
PSCChT07: Paper VII (Physical Chemistry)	20 Marks	80 Marks	4 Credits
PSCChT08: Paper VIII (Analytical Chemistry)	20 Marks	80 Marks	4 Credits
PSCChP04: Practical-III (Physical Chemistry)	20 Marks	80 Marks	4 Credits
PSCChP05: Practical-IV (Analytical Chemistry)	20 Marks	80 Marks	4 Credits
PSCChP06: Seminar-II	----	25 Marks	1 Credits
Total:	120 Marks	505 Marks	25 Credits

General scheme for distribution of marks in practical examination

Time : 6-8 h (One day Examination) Total Marks : 80)

Exercise-1 - 30 Marks

Exercise-2 - 20 Marks

Viva-Voce -15Marks

Record -15 Marks

Question Paper Pattern: Each paper comprising of Max marks 80 of 3 hours duration

Que.-1 (From Unit I) - (A-8 Marks + B-8 Marks) = 16 Marks or (a-4 + b-4 + c-4 + d-4) = 16 Marks

Que.-2 (From Unit II) - (A-8 Marks + B-8 Marks) = 16 Marks or (a-4 + b-4 + c-4 + d-4) = 16Marks

Que.-3 (From Unit III) - (A-8 Marks + B-8 Marks) = 16 Marks or (a-4 + b-4 + c-4 + d-4) = 16Marks

Que.-4 (From Unit IV) - (A-8 Marks + B-8 Marks) = 16 Marks or (a-4 + b-4 + c-4 + d-4) = 16Marks

Que.-5 Short answer question each carry two marks (2 short questions from each unit)= 16 marks

Total: 80 marks

Syllabus prescribed for M.Sc. Chemistry Semester I

PSCChT01: Paper I (Inorganic Chemistry)

60 h (4 h per week): 15 h per unit

80 Marks

Unit-I

A) Stereochemistry and Bonding in Main Group Compound: 5h

VSEPR-Shape of simple inorganic molecules and ions containing lone pairs, various stereochemical rules and resultant geometry of the compounds of non-transitional elements, short coming of VSEPR model. Bent's rule and energetics of hybridization.

B) Metal - Ligand Bonding: 10h

Crystal Field Theory: Splitting of d-orbital in tetragonal, square planar and trigonal bipyramidal complexes. Jahn teller effect, spectrochemical series, nephelauxetic effect. Limitation of crystal field theory. M.O.theory for octahedral, tetrahedral & square planar complexes with and without π -bonding.

Unit-II

A) Metal - Ligand Equilibria in Solution: 5h

Stepwise and overall formation constants; trends in stepwise formation constants; factors affecting stability of metal complexes with reference to nature of metal ion, ligand, chelate effect and thermodynamic origin. Determination of formation constant by : (1)spectrophotometric method (Job's and Mole ratio method) (2) Potentiometric method (Irving-Rossotti Method) B) Reaction Mechanism of Transition metal complexes: 10h

Energy Profile of a reaction, reactivity of metal complexes, Inert and Labile complexes, Kinetics of Octahedral substitution: Acid hydrolysis, factors affecting acid hydrolysis, Stereochemistry of intermediates in S_N1 & S_N2 , Base hydrolysis, Conjugate base mechanism, Direct and indirect evidences in favour of conjugate mechanism, Anation reaction, reaction without metal-ligand bond breaking.

Unit-III:

Cluster-I 15h

Boron hydrides: Classification, nomenclature, structure, bonding and topology of boranes, 4-digit coding (s, t, y, x) numbers for higher boranes and their utilities. Chemistry of

GONDWANA UNIVERSITY, GADCHIROLI

M.Sc.-II Semester III, IV (Chemistry)

(Effective from 2017-18) (CBCS)

1. There will be four theory papers in every semester which will carry 80 marks each of 3 hrs. duration.
2. In semester III student will opt for special paper from four options available.
3. In semester IV student will opt for an elective paper out of the five options available.
4. There will be internal assessment of 20 marks per paper per semester.
5. Each paper per semester with total of 100 marks(80+20 i.e. theory+internal assessment) will carry 4 credits.
6. The internal assessment will be based on Attendance, Home assignment, Unit test Terminal test and participation in departmental activities.
7. There will be two practical examinations in semester III i.e. Pract I(special) and Pract II(Elective) of 6-8 hours duration of 80 marks with 4 credits each. Every practical will be having 20 internal practical marks.
8. In semester IV there will be one practical (Special) and another as Project of 80 marks each.
9. In each semester, the student will have to deliver a seminar on any topic relevant to the syllabus / subject encompassing the recent trends and development in that field / subject. This will carry 25 marks per seminar with one credit.
10. So, the total marks allotted to the Chemistry subject per semester is 625 marks:
Theory (320 marks) + Internal assessment (120 marks) + Practicals (160 Marks)+ Seminar (25Marks)= 625marks (total)
11. Each theory paper consists of four units of fifteen hours per unit.

The following syllabi are prescribed on the basis of four hours per week of each paper and nine practical periods per batch per week.

General scheme for distribution of marks in practical examination

Time : 6-8 h (One day Examination) Total Marks : 80)

Exercise-1 - 30 Marks

Exercise-2 - 20 Marks

Viva-Voce -15Marks

Record -15 Marks

Scheme of Examination for M.Sc. (Chemistry) SEM III and IV

Semester III	Internal Assessment	Total Marks	Credits	
PSCHT09:	Paper IX (Spectroscopy)	20 Marks	80 Marks	4 Credits
PSCHT10:	Paper X Special I -Inorganic/ Organic Chemistry/Physical/Analytical	20 Marks	80 Marks	4 Credits
PSCHT11:	Paper XI Special II -Inorganic/ Organic Chemistry/Physical/Analytical	20 Marks	80 Marks	4 Credits
PSCHT12:	Paper XII Elective Applied Analytical /Nuclear/ Environmental /Polymer/Medicinal Chemistry)	20 Marks	80 Marks	4 Credits
PSCHP07:	Practical-VII Special Inorganic/ Organic Chemistry/Physical/Analytical	20 Marks	80 Marks	4 Credits
PSCHP08:	Practical-VIII Elective - Applied Analytical Nuclear/ Environmental /Polymer/Medicinal)	20 Marks	80 Marks	4 Credits
PSCHP09:	Seminar-III ---- --	25 Marks		1 Credit
Total:		120 Marks	505 Marks	25 Credits
Semester IV				
PSCHT13:	Paper XIII (Spectroscopy)	20 Marks	80 Marks	4 Credits
PSCHT14:	Paper XIV Special I -Inorganic/ Organic Chemistry/Physical/Analytical	20 Marks	80 Marks	4 Credits
PSCHT15:	Paper XV Special II -Inorganic/ Organic Chemistry/Physical/Analytical	20 Marks	80 Marks	4 Credits
PSCHT16:	Paper XVI Elective - Applied Analytical Nuclear/ Environmental / Polymer/Medicinal Chemistry)	20 Marks	80 Marks	4 Credits
PSCHP10:	Practical-X Special (Inorganic / Organic/Physical/Analytical)	20 Marks	80 Marks	4 Credits
PSCHP11:	Practical-XI Project	20 Marks	80 Marks	4 Credits
PSCHP12:	Seminar-IV ----	25 Marks		1 Credit
Total:		120 Marks	505 Marks	25 Credits

Syllabus prescribed for M.Sc. Chemistry Semester III
PSCChT09: Paper IX (Spectroscopy)

60 h (4 h per week): 15 h per unit 80 Marks

Unit - I: Symmetry properties of molecules and group theory:15h

Symmetry elements and symmetry operations. Properties of group. Point groups and Schoenflies symbols. Symmetry operations as a group. Matrix representations of groups. Multiplication table for C_{2v} , C_{3v} and C_{2h} . Reducible and irreducible representations. Similarity transformation. Classes of symmetry operations. Great Orthogonality Theorem. Derivation of character tables for H_2O and NH_3 using Great Orthogonality Theorem. Application of character tables in selection rules of IR, Raman and Electronic spectroscopy.

Unit - II: 15h

A) Mass spectrometry: Theory, ion production(EI, CI, FD, FAB), ion analysis, ion abundance, isotopic contribution, N-rule, types of fission processes, high resolution mass spectrometry, metastable peak, molecular ion peak, McLafferty rearrangement, mass spectral fragmentation of organic compounds alkanes, alkenes, alkynes, alcohols, amines, amides, acids, aldehydes, ketones, halides, Structure determination of organic molecules by mass spectrometry

B) Mossbauer spectroscopy: Basic principle, experimental techniques, recoil emission and absorption, source, absorber, isomer shift, quadrupole interaction, magnetic hyperfine interaction, applications in determining electronic structure, molecular structure, crystal symmetry, magnetic structure, surface studies, biological applications.

Unit - III: 15h

A) Microwave spectroscopy: Classification of molecules on the basis of M.I., rigid and non rigid rotor, effect of isotopic substitution on transition frequencies, stark effect, microwave spectrometer, application in deriving: molecular structure, dipole moment, atomic mass and nuclear quadrupole moment.

B) ESR spectroscopy: Introduction, principle of ESR, ESR spectrometer, hyperfine coupling, zero field splitting, factors affecting g values, Kramer's degeneracy, application of ESR spectra to study free radicals like hydrogen, methyl radical, 1,4 semibenzoquinone, naphthalene, transition metal complexes, biological systems.

GONDWANA UNIVERSITY, GADCHIROLI



BOARD OF STUDIES IN ZOOLOGY

**SUBMISSION OF
CHOICE BASED CREDIT SYSTEM
SYLLABUS FOR POST GRADUATE (M. Sc.) PROGRAMME
FROM SESSION 2016 - 17**

Gondwana University, Gadchiroli

Scheme and syllabus under choice based credit system.

Syllabus for M. Sc. Zoology (Semester with choice based credit system) w e f 2016-17
Academic Session.

Scheme of teaching and examination under semester pattern Choice Based Credit System
(CBCS) for M.Sc. Program in Zoology

M. Sc. Zoology Semester I

Code	Theory / Practical	Teaching scheme (Hours / Week)			Credits	Examination Scheme					
		Th	Pract	Total		Duration in	Max. Marks		Total Marks	Minimum Passing Marks	
							theoretical	practical		Th	Prac
Core 1	Paper 1: Structure and Function of Invertebrates	4	-	4	4	3	80	20	100	40	
Core 2	Paper 2: General Physiology	4	-	4	4	3	80	20	100	40	
Core 3	Paper 3: Cell Biology and Genetics	4	-	4	4	3	80	20	100	40	
Core 4	Paper 4: Advanced Reproductive Biology	4	-	4	4	3	80	20	100	40	
Pract. Core 1 & 2	Practical 1: Based on theory Paper 1 & 2	-	8	8	4	3-8*	80	20	100		40
Pract. Core 3 & 4	Practical 2: Based on theory Paper 3 & 4	-	8	8	4	3-8*	80	20	100		40
Seminar 1	Seminar 1	2	-	2	1			25	25	10	
	TOTAL	18	16	34	25		480	125	625	170	80

M. Sc. Zoology Semester II

Code	Theory / Practical	Teaching scheme (Hours / Week)			Credits	Duration	Examination Scheme				
		Th	Prac t	Total			Max. Marks		Total Marks	Minimum Passing Marks	
							xi	er		n	al
Core 5	Paper 5: Structure and Function of Vertebrates	4	-	4	4	3	80	20	100	40	
Core 6	Paper 6: Comparative Endocrinolog y	4	-	4	4	3	80	20	100	40	
Core 7	Paper 7: Molecular Biology and Biotechnolog y	4	-	4	4	3	80	20	100	40	
Core 8	Paper 8: Advanced Development al Biology	4	-	4	4	3	80	20	100	40	
Pract. Core 5 & 6	Practical 3: Based on theory Paper 5 & 6	-	8	8	4	3- 8 *	80	20	100		40
Pract. Core 7 & 8	Practical 4: Based on theory Paper 7 & 8	-	8	8	4	3- 8 *	80	20	100		40
Seminar 2	Seminar 2	2	-	2	1			25	25	10	
TOTAL		18	16	34	25		480	145	625	170	80

M. Sc. Zoology Semester III

Code	Theory / Practical	Teaching scheme (Hours / Week)				Credits	Examination Scheme				
		Th	Pract	Total	Duration in		Max. Marks		Total Marks	Minimum Passing Marks	
							External	Internal		Th	Pract
Core 9	Paper 9: Parasitology and Immunology	4	-	4	4	3	80	20	100	40	
Core 10	Paper 10: Special Group- Paper I <ul style="list-style-type: none"> • Entomology • Fish and Fisheries • Mammalian Reproductive Physiology (MRP) • Animal Physiology • Cell Biology • Fresh Water Zoology • Aquaculture • Environmental Biology • Sericulture 	4	-	4	4	3	80	20	100	40	
Core Elective 1	Paper 11: Special Group- Paper II <ul style="list-style-type: none"> • Entomology • Fish and Fisheries • Mammalian Reproductive 	4	-	4	4	3	80	20	100	40	

	Physiology (MRP) • Animal Physiology • Cell Biology • Fresh Water Zoology • Aquaculture • Environmental Biology • Sericulture										
Foundation Course 1	Paper 12: Foundation I – • Elementary Zoology • Basic Entomology • Fresh Water Fisheries • Human Physiology	4	-	4	4	3	80	20	100	40	
Pract. Core & 10	Practical 5: Based on theory of 9	5	-	8	8	4	3-8*	80	20	100	40
Pract. Core Elective 1	Practical 6: Based on theory of 10 and 11	6	-	8	8	4	3-8*	80	20	100	40
Seminar 3	Seminar 3	2	-	2	1			25	25	10	
	TOTAL	18	16	34	25		480	145	625	170	80

M. Sc. Zoology Semester IV											
Code	Theory / Practical	Teaching scheme (Hours / Week)				Credits	Examination Scheme				
		Th	Pract	Total	Duration in		Max. Marks		Total Marks	Minimum Passing Marks	
								Intern		Th	Pra
Core 11	Paper 13: Biotechnology, Biostatistics, Ethology, Toxicology and Bioinformatics	4	-	4	4	3	80	20	100	40	
Core 12	Paper 14: Special Group- Paper III • Entomology • Fish and Fisheries • Mammalian Reproductive Physiology (MRP) • Animal Physiology • Cell Biology • Fresh Water Zoology • Aquaculture • Environmental Biology • Sericulture	4	-	4	4	3	80	20	100	40	
Core Elective 2	Paper 15: Special Group- Paper IV • Entomology • Fish and	4	-	4	4	3	80	20	100	40	

	Fisheries • Mammalian Reproductive Physiology (MRP) • Animal Physiology • Cell Biology • Fresh Water Zoology • Aquaculture • Environmental Biology • Sericulture										
Foundation Course 2	Paper 16: Foundation II – • Applied Zoology • Applied and Industrial Entomology • Applied Fresh Water Fisheries • Applied Human Physiology	4	-	4	4	3	80	20	100	40	
Pract. Core 11, 12 & Elective 2	Practical 7: Based on theory of 14 and 15	7:-	8	8	4	3-8*	80	20	100		40
Project	Project	-	8	8	4	3-8*	80	20	100		40
Seminar 4	Seminar 4	2	-	2	1			25	25	10	
	TOTAL	18	16	34	25		480	145	625	170	80

Gondwana University, Gadchiroli
Changes in practical curriculum as per UGC Notification No. F.14-6/2014 (CPP-II) Dated 1st August 2014
(w.e.f. academic session 2016-17) Important Instructions

- I. Use of animals for dissection for practical purpose in the curriculum is banned by UGC vide its notification No. F.14-6/2014 (CPP-II) dated 1st August 2014. It is now essential to use necessary alternatives to stop dissection and promote and orient students towards the knowledge component rather than skill development using ICT and available resources without disturbing natural habitat. To understand anatomy of any animal, virtual dissection of the animal should be conducted through various computer simulations. These digital learning devices and available resources are to be used to demonstrate the dissection of the animals and other laboratory exercises and to evaluate the students at the time of examination and to ensure compliance of the aforesaid notification.
- II. Those institutions which are already having Zoology museum / Permanent Slides / Skeleton and Loose Bones of any animals should use them till they last. No new specimens/ slides or any other laboratory material procured from animal source shall be purchased for conducting practicals mentioned here- in above. If needed, they should purchase charts/ models/ photographs or digital sources as alternatives.
- III. During regular practical and practical examination, for anatomical observations, demonstration and detailed explanation of the given system of Invertebrate/ Vertebrate animal, the student will expose/ explain the given system of the animal and draw, label and comment on it.
- IV. During regular practical and practical examination, for mounting of given material and permanent stained preparation, the student is expected to describe the process and/or identify, draw, label and describe the given material.

Semester- III

Course Structure for
Degree of Master of Library and Information Science (MLISc)
(2 Year Integrated Course : Semester, Choice Based Credit System)

And

Bachelor of Library and Information Science (BLISc)
(Equivalent to MLISc first Year CBCS)

Course code	Course Name	Credit Distribution		Marks Distribution		
		Theory	Practical	Univ. Exam.	Internal Assessment	Grand Total
FIRST SEMESTER						
LIS/I/T/01	Foundation of Library and Information Science	04	00	80	20	100
LIS/I/T/02	Knowledge Organization and Library Classification	04	00	80	20	100
LIS/I/T/03	Library Cataloguing	04	00	80	20	100
LIS/I/T/04	Information Sources	04	00	80	20	100
LIS/I/T/05	Information Technology Basics	04	00	80	20	100
LIS/I/P/06	Classification Practice (Part-I)	00	04	80	20	100
LIS/I/P/07	Cataloguing Practice (Part-I)	00	04	80	20	100
LIS/I/P/08	Information Technology Basics Practice (Part-I)	00	04	80	20	100
LIS/I/P/09	Information Sources Practice (Part-I)	00	04	80	20	100
Total		20	16	720	180	900
SECOND SEMESTER						
LIS/II/T/10	Library House Keeping Operation	04	00	80	20	100
LIS/II/T/11	Management of Libraries and Information Centres	04	00	80	20	100
LIS/II/T/12	Information Services	04	00	80	20	100
LIS/II/T/13	Library Automation	04	00	80	20	100
LIS/II/T/14	Research Methods and Statistical Techniques	04	00	80	20	100
LIS/II/P/15	Classification Practice (Part – II)	00	04	80	20	100
LIS/II/P/16	Cataloguing Practice (Part-II)	00	04	80	20	100
LIS/II/P/17	Information Technology Basics Practice (Part-II)	00	04	80	20	100
LIS/II/P/18	Information Sources Practice (Part –II)	00	04	80	20	100
Total		20	16	720	180	900

Degree of Master of Library and Information Science (MLISc)
(2 Year Integrated Course : Semester, Choice Based Credit System)

Second Year

And

Degree of Master of Library and Information Science (MLISc)

Course code	Course Name	Credit Distribution		Marks Distribution		
		Theory	Practical	Univ. Exam.	Internal Assessment	Grand Total
THIRD SEMESTER						
LIS/III/T/19	Information Analysis, Repackaging and Consolidation	04	00	80	20	100
LIS/III/T/20	Information Storage, Retrieval and Bibliographical Control	04	00	80	20	100
LIS/III/T/21	System Analysis and Bibliometrics	04	00	80	20	100
LIS/III/T/22	ICT Applications in Libraries and Information Centres	04	00	80	20	100
	Elective Papers : Any one of the following	04	00	80	20	100
LIS/III/T/23-EL.1	Elective 1- Industrial Information System					
LIS/III/T/2-EL.2	Elective 2- Agricultural Information System					
LIS/III/T/23-EL.3	Elective 3- Legal Information System					
LIS/III/T/2-EL.4	Academic Library and Information System					
LIS/III/P/24	Information Technology Application (Part-I)	00	04	80	20	100
LIS/III/P/25	Educational Tour Report, Survey of Libraries and Information Centres	00	02	00	50	50
LIS/III/P/26	Internship	00	02	00	50	50
LIS/III/P/27	Project Seminar	00	02	00	50	50
	Total	20	10	480	270	750
Foundation Paper –Only for Other P.G. Department (Interdisciplinary) Students (Not for LIS Students)						
LIS/III/T/28 / FC- Part -I	Fundamentals of Library Science	04	00	80	20	100

FOURTH SEMESTER						
LIS/IV/T/29	Information System and Networks	04	00	80	20	100
LIS/IV/T/30	Management of ICU, Marketing and Technical Writing	04	00	80	20	100
LIS/IV/T/31	Computer Generated Indexes and Retrieval Techniques	04	00	80	20	100
LIS/IV/T/32	Digital Libraries	04	00	80	20	100
	Elective Papers- Any one of the following	04	00	80	20	100
LIS/IV/T/33 EL.1	Archival, Museums and Archaeological Information System					
LIS/IV/T/33 -LE.2	Bio-technology Information System					
LIS/IV/T/33 -EL.3	Engineering and Technological Library and Information System					
LIS/IV/T/33 -EL.4	Public Library and Information System					
LIS/IV/P/34	Information Technology Applications (Part-II)	00	04	80	20	100
LIS/IV/P/35	Project Work Report Vivo Voce	00	04 02	80 50	20	150
	Total	20	10	610	140	750
Foundation Paper –Only for Other P.G. Department (Interdisciplinary) Students (Not for LIS Students)						
LIS/IV/T/36 / FC-Part II	Fundamentals of Information Science	04	00	80	20	100

Master of Library and Information Science

M.Lib.I.Sc (CBCS) (Two years in Four
semesters Integrated Course)

and

Bachelor of Library and Information Science

B.Lib.I.Sc (CBS)

Statement showing semester, theory and practical paper, teaching
scheme, credits, duration, maximum and minimum marks in order to pass the examination.

SEMESTER I

Sr.No	Theory Paper	Teaching Scheme (Hrs/Week)	Credits	Examination Scheme				
				Duration (Hrs)	Maximum Marks		Total Marks	Minimum Passing Marks
					External Marks (Univ.)	Internal Assessment Marks		
1	LIS/I/T/01	4	4	3	80	20	100	40
2	LIS/I/T/02	4	4	3	80	20	100	40
3	LIS/I/T/03	4	4	3	80	20	100	40
4	LIS/I/T/04	4	4	3	80	20	100	40
5	LIS/I/T/05	4	4	3	80	20	100	40
	Total	20	20	15	400	100	500	200
Practical Papers								
6	LIS/I/P/06	8	4	3	80	20	100	40
7	LIS/I/P/07	8	4	3	80	20	100	40
8	LIS/I/P/08	8	4	3	80	20	100	40
9	LIS/I/P/09	8	4	3	80	20	100	40
	Total	32	16	12	320	80	400	160
Net total (Theory and Practical)		52	36	27	720	180	900	360

SEMESTER- II

Sr.No	Theory Paper	Teaching Scheme (Hrs/Week)	Credits	Examination Scheme				
				Duration (Hrs)	Maximum Marks		Total Marks	Minimum Passing mark
					External Marks (Univ.)	Internal Assessment Marks		
1	LIS/II/T/10	4	4	3	80	20	100	40
2	LIS/II/T/11	4	4	3	80	20	100	40
3	LIS/II/T/12	4	4	3	80	20	100	40
4	LIS/II/T/13	4	4	3	80	20	100	40
5	LIS/II/T/14	4	4	3	80	20	100	40
	Total	20	20	15	400	100	500	200
Practical Papers								
6	LIS/II/P/15	8	4	3	80	20	100	40
7	LIS/II/P/16	8	4	3	80	20	100	40
8	LIS/II/P/17	8	4	3	80	20	100	40
9	LIS/II/P/18	8	4	3	80	20	100	40
	Total	32	16	12	320	80	400	160
	Net total (Theory and Practical)	52	36	27	720	180	900	360

**Master of Library and Information Science
(M.Lib.I.Sc.)**

Semester wise Syllabus

(Paper, Subjects, Denomination of Total Marks and Theory, Practical Internal Assessment and Total Marks)

SEMESTER III

Sr.No	Theory Paper	Teaching Scheme (Hrs/Week)	Credits	Examination Scheme				
				Duration (Hrs)	Maximum Marks		Total Marks	Minimum Passing Marks
					External Marks (Univ.)	Internal Assessment Marks		
Core	LIS/III/T/19	4	4	3	80	20	100	40
Core	LIS/III/T/20	4	4	3	80	20	100	40
Core	LIS/III/T/21	4	4	3	80	20	100	40
Core	LIS/III/T/22	4	4	3	80	20	100	40
Elective	LIS/III/T/23-EL.1 LIS/III/T/2-EL.2 LIS/III/T/23-EL.3 LIS/III/T/2-EL.4	4	4	3	80	20	100	40
Total		20	20	15	400	100	500	200
Practical Papers								
Core	LIS/III/P/24	8	4	3	80	20	100	40
Core	LIS/III/P/25	--	2	--	--	50	50	20
Core	LIS/III/P/26	--	2	30 Working days	--	50	50	20
Core	LIS/III/P/27	4	2	3	--	50	50	20
Total		12	10	06	80	170	250	100
Net total (Theory and Practical)		32	30	21	480	270	750	300
Foundation	LIS/III/T/28/ FC- Part -I	4	4	3	80	20	100	40

Master of Library and Information Science
Semester wise Syllabus
(Paper, Subjects, Denomination of Total Marks and Theory, Practical, Internal Assessment and Total Marks) SEMESTER IV

Sr.No	Theory Paper	Teaching Scheme (Hrs/Week)	Credits	Examination Scheme				
				Duration (Hrs)	Maximum Marks		Total Marks	Minimum Passing Marks
					External Marks (Univ.)	Internal Assessment Marks		
Core	LIS/IV/T/29	4	4	3	80	20	100	40
Core	LIS/IV/T/30	4	4	3	80	20	100	40
Core	LIS/IV/T/31	4	4	3	80	20	100	40
Core	LIS/IV/T/32	4	4	3	80	20	100	40
Elective	LIS/IV/T/33EL.1 LIS/IV/T/33-LE.2 LIS/IV/T/33-EL.3 LIS/IV/T/33-EL.4	4	4	3	80	20	100	40
	Total	20	20	15	400	100	500	200
Practical Papers								
Core	LIS/IV/P/34	8	4	3	80	20	100	40
Core	LIS/IV/P/35	8	4+2	--	80+50	20	150	40+20
	Total	16	10	3	210	40	250	100
Net total (Theory and Practical)		36	30	18	610	140	750	300
Foundation	LIS/IV/T/36/ FC-Part II	4	4	3	80	20	100	40