



L. A.D & Smt. R.P. College for Women, Nagpur

NAAC AQAR 2022 - 2023

Criterion 1–Curricular Aspects
Key Indicator - 1.1 Curricular Planning
and Implementation

Metric No 1.1.2 The Institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation

Syllabus Showing 20% Internal Marks

**Syllabus Prescribed for
B.A.I Supplementary English
(Semester I)**

(To be implemented from the session 2016-17 i.e. Winter 2016 Examination and onwards)

Unit I

1. The Many World of Literature- Ed. Jasbir Jain (Macmillan)
First eight (8) chapters are prescribed
2. Wings of Poesy Ed. N.K. Mishra and N. Mukherji (S.Chand and Company Limited)
Prescribed Poem No. 3, 4, 5, 6, 7 and 8.

Unit II

Applied Language Skills

Application for job, application for leave, arranging sentences to give proper meaning

Prescribed book: Writing Skills- Anne Laws (Orient Blackswan)

Pattern of Question Paper

Full Marks: 80

Duration: 3 Hours

Qu. 1.(A) Long Answer question based on chapters 1 to 4 of The Many World of Literature to be attempted in about 150 words. (One out of two) - 12 Marks

(B) Long Answer question based on chapters 5 to 8 of The Many World of Literature to be attempted in about 150 words. (One out of two) - 12 Marks

Qu. 2.(A) Short Answer question based on chapters 1 to 4 of The Many World of Literature to be attempted in about 75 words. (One out of two) - 08 Marks

(B) Short Answer question based on chapters 5 to 8 of The Many World of Literature to be attempted in about 75 words. (One out of two) - 08 Marks

Qu. 3.(A) Long Answer question based on Poem 3 to 5 from Wings of Poesy to be attempted in about 150 words. (One out of two) - 10 Marks

(B) Long Answer question based on Poem 6 to 8 from Wings of Poesy to be attempted in about 150 words. (One out of two) - 10 Marks

Qu. 4 (A) Application for Job, Letter seeking leave from place of work- 10 marks

(B) Sequencing of Ideas (Arrangement of 10 jumbled sentences) - 10 Marks

Internal Assessment (20 Marks):

- i) Reading Skills - 5 Marks
- ii) Extempore (on the theme of prescribed prose or poetry) - 5 Marks
- iii) Dictation (on the words from the prescribed prose section) 10 words- 10 Marks

Syllabus Prescribed for
B.A.III Supplementary English
(Semester V)

(To be implemented from the session 2018-19 i.e. Winter 2018 Examination and onwards)

Unit I

Prescribed Books;

1. David Copperfield; Charles Dickens (Abridged version- Orient Blackswan)
2. Easy English (An Anthology of Prose, Poetry and One Act Plays) Suresh Chandra, (S. Chand and Company Ltd.) Prescribed from prose section, Chapter No. 1, 4, 5 and 6.
3. English for Competitive Examinations - Ed. R.P. Bhatnagar, Rahul

Unit II Applied Language Skills; Letter of congratulation, condolence, verbal phrases

Pattern of Question Paper

Full Marks: 80

Time: 3 hours

Qu. 1.(A) One out of two theme based LAQ from David Copperfield, to be attempted in about 150 words- 12 marks

(B) One out of two character based LAQ from David Copperfield, to be attempted in about 150 words. - 12 marks

Qu. 2.(A) One out of two SAQ from David Copperfield, to be attempted in about 75 words. - 08 Marks

(B) One out of two SAQ from David Copperfield, to be attempted in about 75 words. - 08 Marks

Qu. 3.(A) Long Answer question based on first two prescribed prose selection (1 and 4) from Easy English (An Anthology of Prose, Poetry and One Act Plays) to be attempted in about 150 words. (One out of two) - 10 Marks

(B) Long Answer question based on first two prescribed prose selection (5 and 6) from Easy English (An Anthology of Prose, Poetry and One Act Plays) to be attempted in about 150 words. (One out of two) - 10 Marks

Qu. 4 (A) Letter of Congratulation, Condolence (01 out of 02)- 10 marks

(B) Spotting Errors in a sentence, 10 sentences - 10 marks

Internal Assessment: (20 Marks)

Importance of English in Development of Nation and its reality in India, Submission of a mini-project surveying a locality on the basis of Age Group, Educational Qualification and Economic Position.

**RASHTRASANT TUKADOJI MAHARAJ
NAGPUR UNIVERSITY NAGPUR**

SEMESTER SYSTEM SYLLABUS

FOR

PSYCHOLOGY

B. A.

(Semester I, II, III, IV, V & VI)

Counselling and Positive Psychology

To be implemented progressively from 2016-2017 onwards
Objective: To Develop and understanding of well-being.

(Marks: Theory: **40**, Internal Assessment: **10=50**). (Marks: Practical: **40**, Internal Ass: **10=50**) Total marks= **100**

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Code:COU&POS1T6

Unit I: **Counselling**

Meaning and goals of counselling, counselling process and relationship. Counselling in Indian context
Application: Counselling an Art.

Unit II:

Techniques: Play, Art, Drama, Music, Dance, Yoga and Meditation.
Application: Role of Counselling techniques .

Unit III:

Applications of counselling: family, School, Career Premarital, Marriage.
Application: Challenges before Counsellor. Premarital counseling to students.

Unit: IV:

Well Being: Components of well-being; life satisfaction Life: Enhancing Virtues: Wisdom and Knowledge, Courage, Humanity, Justice, Temperance, Transcendence.
Application: Understanding importance of Well-being.

Project : With a view to facilitate creativity, arouse curiosity and promote skills in planning and conducting psychological research, students are required to take up a mini project on an issue of interest, under the supervision of teacher.

- Note:**
- 1) 2 periods per week per batch of 16 students and 04 periods for theory per Week shall be allotted.
 - 2) Student has to submit duly certified record book at the time of examination.
 - 3) Every student has to submit one assignment and also participate in group discussion.

- 4) In Group Discussion, applications of Unit I, II, III & IV should be discussed.
- 5) Students will have to perform any **Four** of the following. Project work is compulsory.

**Practical:
CODE:1P6**

- 1) Well-Being Scale
- 2) Psychological Counseling Need Scale
- 3) Psychological Hardiness Scale
- 4) Big Five Personality Inventory
- 5) Type A/B Behavioural pattern Scale
- 6) Retroactive Inhibition
- 7) Verbal Intelligence Test
- 8) Research Project

Distribution of Marks for practical:	
Record Book.....	10
Conduct of Test.....	10
Viva Voice.....	10
Report of the Test... ..	10
Internal Assessment.....	10
=====	
Total Marks	50

References:

- Baumgardner, S. R. (2012): Positive Psychology. New Delhi, Pearson
- DiMatteo, M. R. and Martin, L. R. (2002): Health Psychology. New Delhi, Pearson.
- Nimbalkar, K. P. (2016): Psychology Experiments and Tests (in Marathi), Psychoscan, Wardha
- Rao, S. N. (2003): Counselling and Guidance (2nd Ed) New Delhi: Tata McGraw Hill.
- Snyder, C. R. & Lopez, S. J. (2007): Positive Psychology: The Scientific & practical explorations of human strengths. Thousand Oaks, CA: Sage.
- Taylor, S. E. (2006): Health Psychology (6th Ed.) New York:Tata McGraw Hill.

RASHTRASANT TUKADOJI MAHARAJ

NAGPUR UNIVERSITY NAGPUR

SEMESTER SYSTEM SYLLABUS

FOR

B.A.(Part-I)- Semester-I & II

B.A.(Part-II)- Semester-III & IV

B.A.(Part-III)- Semester-V & VI

GEOGRAPHY

(WITH EFFECT FROM 2016-17)

Rashtrasant Tukadoji Maharaj Nagpur University Nagpur

B.A.I. Geography

Semester-II(1P2)

Semester Practical Examination Marks:40

Internal Assessment: 10

Unit-I:

Preparation of climatic maps and diagrams-

- a) Preparation of Isopleths showing temperature, pressure and rainfall. (Each Two Examples)
- b) Construction of Histogram, Hythergraph, Windrose Diagram and Taylor's Climograph.

Unit-II:

Study of Indian daily Weather Maps: Showing summer, Rainy seasons and winter condition.

Unit-III:

Study of following weather instruments:

- a) Maximum and minimum thermometer.
- b) Barometer
- c) Dry and Wet Bulb Thermometers
- d) Rain Gage and Anemometer & Wind vane

Unit-IV

Instrumental Survey- Plane table Survey- Methods & Type.

Plan of Practical Examination

The following plan will be strictly followed to test the skill developed by the students.

- 1) Preparation of climatic maps and diagrams
 - a) Isopleths (6 Marks)
 - b) Diagrams (Two Problems) (8Marks)
- 2) Study of Indian daily Weather Maps (6 Marks)
- 3) Surveying (6 Marks)
- 4) Weather instruments (4 Marks)
- 5) Viva-voce (5 Marks)
- 6) Practical Record, Attendance and Punctuality (5 Marks)

Internal Assessment:

Test Exam (10 Marks)

Rashtrasant Tukadoji Maharaj Nagpur University Nagpur

B.A.III. Geography

Semester-VI (3P2)

Practical Geography

Semester Practical Examination Marks: 40

Internal Assessment: 10

Unit-I:

Dumpy Level Survey- Use of Dumpy Level

- a) Preparation of field Book (Rise and fall Method and Collimation Method)
- b) Drawing of Profile.

Unit-II:

Introduction to modern Techniques.

- (a) Equipments of Air Photography, types of Air Photographs, Scales of Air Photographs, interpretation of Air Photographs, merits and demerits of Air Photographs.
- (b) GIS and Remote Sensing- Introduction to GIS, Fundamentals of GIS-spatial and concepts and spatial relationship, Definition of R.S., R.S. Platforms and scanners, R.S. as a tool for data generation and mapping.

Unit-III:

Meaning and Computation of Correlation, Correlation Co-efficient by Karl Pearson's and Spearman's Method.

Unit-IV

Field Work and Field Report. Socio-economic Survey of Small Village.

Plan of Practical Examination

The following plan will be strictly followed to test the skill developed by the students.

1. Problem on levelling
 - (a) Preparation of field book (6 Marks)
 - (b) Drawing of Profile (4 Marks)
2. Introduction to Modern techniques
 - (a) Aerial photographs (4 Marks)
 - (b) G.I.S. and Remote Sensing (6 Marks)
3. Computation of correlation (5 Marks)
4. Field Survey report (5 Marks)
5. Viva-voce. (5 Marks)
6. Practical record, attendance and punctuality (5 Marks)

Internal Assessment:

Test Exam (10 Marks)

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY NAGPUR

STRUCTURE OF SYLLABUS- SEMESTER PATTERN

BACHELLOR OF ARTS

in

POLITICAL SCIENCE

2016-17

Semester system for B.A. Programme in Political Science is being introduced from ensuing academic year 2016-17. B.A. Programme will of three academic years and will consist of Six Semesters. Each academic year will consist of two semesters- one odd and one even. The theory paper will be of 80 marks the examination of which will be taken by the university at the end of the semester. There shall be internal evaluation of each student for each paper consisting of 20 marks. Each student is required to obtain at least 32 out of 80 marks for passing the theory paper and 08 marks out of 20 in the internal assessment test conducted by the college/department.

Following is the scheme under Semester Pattern for B.A. Political Science Course

B.A. I

SEMESTER I

PAPER- I : POLITICAL THEORY

SEMESTER II

PAPER-II : WESTERN POLITICAL THOUGHT

B.A. II

SEMESTER III

PAPER-III : INDIAN GOVERNMENT AND POLITICS

SEMESTER IV

PAPER-IV: STATE GOVERNMENT AND POLITICS

B.A. III

SEMESTER V

PAPER-V : COMPARATIVE GOVERNMENT AND POLITICS

(With Reference to UK and USA)

SEMESTER VI

PAPER-VI : INTERNATIONAL RELATIONS

INTERNAL ASSESSMENT SCHEME OF B.A. SEMESTER

The students is required to appear and qualify the internal examination separately. He/She must secure minimum 08 marks out of 20 for passing. No second chance will be given for internal assessment.

1. If the student remains absent during the internal assessment examinations he/she can be allowed for re-examination on the permission of the Principal on the recommendation of the Head of Department of the subject concerned.
2. If the student fails in the internal examination he/she will have to apply in the prescribed Application form and pay the prescribed fee as per rules laid down by the university.

(University must design a Application form for A.T.K.T. of the internal examination)

- | | |
|---|------------|
| 1) Attendance and class room participation | : 05 Marks |
| 2) Project Assignment
(On topics of syllabus, including research paper, Survey report, book review etc.) | : 05 Marks |
| 3) Classroom Seminar Presentation
(On topics of syllabus) | : 05 Marks |
| 4) Viva- Voce
(Questions on entire syllabus of the paper taught giving emphasis on conceptual clarity) | : 05 Marks |



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR (Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016)

DIRECTION NO. 5...OF 2020

ADMISSIONS AND EXAMINATIONS LEADING TO THE AWARD OF DEGREE OF BACHELOR OF COMMERCE (COMPUTER APPLICATION) (B.C.C.A.) (NEW) (CREDIT BASED SEMESTER PATTERN) DIRECTION 2020.

Whereas, the Maharashtra Public Universities Act, 2016(VI of 2017) (hereinafter the Act VI of 2017) has come in to force in the State of Maharashtra, with effect from 1st March 2017, repealing the Maharashtra Universities Act, 1994;

AND

Whereas, the Rashtrasant Tukadoji Maharaj Nagpur University (hereinafter the 'University'), hitherto governed by the Maharashtra Universities Act, 1994, is now being governed by the Act (VI of 2017).

AND

Whereas, under section 34(2) of the Act VI of 2017 the University shall have only four faculties specified in said section;

AND

Whereas, the composition of each faculty in the University is to be such as may be prescribed by the University and the University has issued Direction No. 15 of 2017 prescribing the composition of each faculty in the University; whereby erstwhile faculty of commerce is included in the new Faculty of Commerce and Management;

AND

Whereas, the university has issued the Direction No. 10 of 2019 prescribing certain Common conditions for the entire undergraduate and post-graduate programmes /courses in the university;

AND

Whereas, the University had issued the Direction No. 59 of 2016 introducing the Bachelor of Commerce (Computer Application)-(B.C.C.A.) (Credit Based Semester Pattern) programme in the former faculty of Commerce from the academic session 2016-17;

AND

Whereas, the Board of Studies, in its meeting held on 26.02.2019 recommended minor

- e. **"Credit Points"** refer to the product of No. of credits multiplied by the Grade Point for a given course/paper.
- f. **"Credit"** (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and a multiplier of half (1/2) for practical (laboratory) hours.
- g. **"Course"** means a paper/subject (theory or practical) prescribed for any semester of the programme.
- h. **"Cumulative Grade Point Average (CGPA)"** refers to the Cumulative Grade Point Average weighted across all semesters (4 semesters)
- i. **"Degree"** means the Under Graduate Degree awarded after successful completion of the programme governed by this Direction.
- j. **"Fees"** means the fees prescribed by the University/ Shikshan Shulka Samiti of Government of Maharashtra, for the Under Graduate programme under this Direction, from time to time.
- k. **"Grade letter"** is an index to indicate the performance of a student in a particular course (Paper). It is the transformation of actual marks secured by a student in a course/paper. Grade letters are O, A, B, C, P, F and AB.
- l. **"Grade Point"** is the weightage allotted to each grade letter depending on the range of marks awarded in a course/paper.
- m. **"Graduate programme"** means Bachelors' degree programme in Commerce (Computer Application).
- n. **"Semester Grade Point Average (SGPA)"** refers to the performance of the student in a given semester. SGPA is based on the total credit points earned by the student in all the courses and the total number of credits assigned to the courses/papers in a Semester.
- o. **"Student"** means student admitted to Bachelors degree programme in commerce under this direction.
- p. **"University"** means Rashtrasant Tukadoji Maharaj Nagpur University.

4. ELIGIBILITY FOR ADMISSION:

- a. Subject to the provisions of general ordinances of the university regarding admissions in various courses of the university, including reservation of seats, an applicant for admission to this programme, governed by this Direction, shall have passed:-
 - i. XII Standard Examination of the Maharashtra State Board of Secondary and Higher

S *Q*

students in Semester -I of BCCA Part -I from the academic year 2019-2020, and shall be applied to succeeding examinations in phased manner.

11. All the students who had taken admission in BCCA programme under earlier Direction, i.e. 59 of 2016 (Old Course) shall continue to be governed by the said Direction till the New Programme reach the respective semester in natural progression, thereafter students of the old course shall be given three additional chances to clear the backlog, if any, thereafter they shall be absorbed in the New Programme under this Direction as per the absorption scheme appended to this Direction.

12. If any question of interpretation of any clause of this Direction arises the same shall be referred to the Dean, Faculty of Commerce and Management whose opinion shall be final and binding.

Nagpur

Date—5/3/2020


(Dr. Siddharthavinayaka P. Kane)

Vice-Chancellor

BCCA Part -III

Semester – VI

Course Code	Subjects	Paper	Teaching Scheme per weeks			Examination Scheme						Credits	
			Theory (Periods)	Practical (Periods)	Total (Periods)	Theory			Practical				
						Max Marks - Theory Paper (TH)	Max Marks - Internal Assessment	Total	Min Passing Marks	Max Marks - Practical (PR)	Min Passing Marks		Total Marks
Theory													
6T1	C#.Net	I	5	-	5	80	20	100	40	-	-	100	4
6T2	SEC– II : (i) Python (ii) Ruby on Rail	II	5	-	5	80	20	100	40	-	-	100	4
6T3	DSE– II : (i) Entrepreneurship Development (ii) Company Law and Secretarial Practice	III	5	-	5	80	20	100	40	-	-	100	4
Practical													
6P1	C#.Net & SEC - II	P- I	-	6	6	-	-	-	-	100	40	100	4
6P2	Project	Project	-	6	6	-	-	-	-	100	40	100	4
Total			15	12	27							50	20

Notes:

1. TH = Theory, PR = Practical, IA = Internal Assessment, SEC = Skill Enhancement Course, DSE = Discipline Specific Elective.
2. The practical shall be treated as a separate passing head.
3. Practical Record File should be prepared for Practical Subjects. Both subjects should be included in Practical Record File.
4. The Practical batch size shall be of 60 (Sixty) students per batch with Two students sharing one computer terminal.
5. The candidate has to pass theory papers and Practical Paper separately.
6. Above instructions are applicable for all semesters.

BCCA - PART - III - SEMESTER - VI								
CBS Semester Pattern Introduced in 2019-2020 with (New course) CBS semester pattern Introduced in 2016-2017 (Old Course) and with Annual Pattern introduced in 2013-2014								
Sr. No	CBS Semester Pattern - (New Course) introduced in 2019-2020	Max Marks	Sr. No	CBS Semester Pattern - (Old Course) introduced in 2016-2017	Max Marks	Sr. No	(Annual Pattern) Course introduced in 2013-14	Max Marks
Theory			Theory			Theory		
6T1	C#.Net	80	6T1	C#.Net	80	4	Front End Development	80
6T2	SEC-II (Any One)		6T2	SEC-II (Any One)		To be appeared compulsorily (Any One)		
	(i) Python	80		(i) Python				
	(ii) Ruby on Rail	80		(ii) Ruby on Rail				
6T3	DSE-II (Any One)		6T3	DSE-II (Any One)		To be appeared compulsorily (Any One)		
	(i) Entrepreneurship Development	80		(i) Entrepreneurship Development				
	(ii) Company Law and Secretarial Practice	80		(ii) Company Law and Secretarial Practice				
Practical			Practical			Practical		
6P1	Practical - I : (Semester - VI) - C#.Net & SEC-II (Any One - Python / Ruby on Rail	100	6P1	Practical - I : (Semester - VI) - C#.Net & SEC-II (Any One - Python / Ruby on Rail	100	7	Practical-II : VB & Oracle	100
Project			Project			Project		
6P2	Project	100	6P2	Project	100	8	PROJECT	100
All the students absorbed in semester pattern course will have to compulsorily fill Semester V and Semester VI exam forms and appear for these two papers of (New course). Other papers if any to be appeared as per exemption mentioned								

Practical – II

1. Writing a Program or Problem (Algorithm & Program)	10		10
External Viva Voce	10		10
Practical Record	10		10

Total Marks	50	+	50	=100
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Note:

- Since the practical contains two components (i.e. two subjects), so each component has to be evaluated as above.
- Whereas, the marks of Practical shall be notified as a whole out of 100 in Foil / C-Foil.

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DIRECTION, SCHEME AND SYLLABUS

FOR

SEMESTER PATTERN

IN

B.Sc. HOME SCIENCE

RASHTRASANT TUKADOJI MAHARAJ

NAGPUR UNIVERSITY

NAGPUR (M.S.)

INDIA

2016-2017

Appendix: B

Guidelines for Internal Assessment (IA), Theory Paper Pattern and Practicals

1. Each semester shall comprise of minimum 90 teaching days.
2. For all Practicals the batch will be of 16 students.
3. The Practical Examination will be conducted for even semester (Semester-II, IV and VI) the practical examination will be conducted by both External and Internal examiner.
4. The marks for Practical shall be allotted by Internal and External examiner together and marks of Internal Assessment to be given by Internal but the articles prepared or reports to be presented before the External examiner and marks to be finalized.
5. All theory and practical examinations are as per shown in the scheme.

I-Internal Assessment (IA) :

1. The internal assessment shall be done by the College at least 15 days prior to the final examination of each semester. The Marks shall be sent to the University immediately after the Assessment in the prescribed format.

-Guidelines for Internal Assessment are appended herewith.

- a) The internal assessment marks assigned to each theory paper as mentioned in **Appendix - A** shall be awarded on the basis of assignments like class test, attendance, project assignments, seminar, 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 one / two assignments (as described above) per Theory paper.
- 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 shall inform his / her students clearly the method he / she intend to adopt and the scheme of marking for internal assessment.
- f) Teacher shall announce the schedule of activity for internal assessment in advance in consultation with HOD / Principal.
- g) Final submission of internal marks to the university shall be before the commencement of the university theory examinations.

II-Theory Papers:

- All Theory papers shall be divided into four units.
- The theory question papers shall be of 3 hours duration and comprise of 5 questions with equal weightage to all units.

**RASHTRASANT TUKADOJI MAHARAJ NAGPUR
UNIVERSITY NAGPUR**

**BACHELOR OF HOTEL MANAGEMENT AND
CATERING TECHNOLOGY**

(SEMESTER PATTERN)

- b. Bachelor of Hotel Management and Catering Technology, Semester-II Exam.
- c. Bachelor of Hotel Management and Catering Technology, Semester- IIIExam.
- d. Bachelor of Hotel Management and Catering Technology, Semester-IV Exam.
- e. Bachelor of Hotel Management and Catering Technology, Semester-V Exam.
- f. Bachelor of Hotel Management and Catering Technology, Semester-VI Exam.
- g. Bachelor of Hotel Management and Catering Technology, Semester-VII Exam.
- h. Bachelor of Hotel Management and Catering Technology, Semester-VIII Exam.

The examinations shall be held at such places and dates which shall be notified by the University.

The period of Academic Session shall be such as may be notified by the University.

4. The Examination specified in proceeding section shall be held twice a year at such places on such dates as may be decided by the University. The main examination of semester I, III, V and VII shall be held in winter whereas the examination for semester II, IV, VI and VIII shall be held in summer. The supplementary examination of semester I, III, V and VII will be held in summer whereas supplementary examination for semester II, IV, VI, VIII will be held in winter. There shall be no practical examination during semester I, III, V and VII. Practical examination will be held during semester II, IV, VI, VIII only considering complete curriculum and term work of both the semesters of that particular year.

5. Eligibility Criteria

Subject to the compliance with provisions of this Direction and of other Ordinances in force from time to time, a candidate for admission to the examination shall:

- a. In the case of Bachelor of Hotel Management & Catering Technology Semester – I, have passed XII Standard Examination of Maharashtra State Board of Secondary & Higher Secondary Education or an examination recognized as equivalent thereto under the following Faculties – Science / Home Science / Commerce / Arts with compulsory English with not less than 45% marks (40% marks for backward class candidates) In addition the rules notified by Government of Maharashtra from time to time.

OR

The candidate should have passed the Indian School Certificate (Std. XII) Examination or any other equivalent Higher Secondary (Std.XII) Examination of a Councilor Board outside Maharashtra State with English, Science, Home Science, Commerce, Arts and with not less than 45% marks (40% marks for backward class candidates from Maharashtra State only) in the Faculties of Science/Home Science/Commerce/Arts with English. Admission to BHMCT Semester–I shall be after appearing for MAH-HM-CET.

- b) In the case of Bachelor of Hotel Management & Catering Technology Semester-III, have passed 50% of the subjects Semester-I &II Examination taken together.
- c) In case of Bachelor of Hotel Management & Catering Technology-semester-V, have passed the Bachelor of Hotel Management & Catering Technology Semester – I & II (i.e. part-I) and 50% of the subjects of Semester-III &IV Examination taken together.

APPENDIX A

EXAMINATION LEADING TO BACHELOR OF HOTEL MANAGEMENT & CATERING
TECHNOLOGY, SEMESTER –V

Sr. No	Subject (Theory)	Sessi- onal	Marks Paper	Total	Passing Marks	No. of Theory per week	Periods Practi- Cals	Time for Exam.
5-T-I	Food Production Management–I	20	80	100	40	4	-	3
5-T-II	Food & Beverage Management–I	20	80	100	40	4	-	3
5-T-III	Housekeeping Management–I	20	80	100	40	4	-	3
5-T-IV	Front Office Management–I	20	80	100	40	4	-	3
5-T-V	Application of Computer-I	20	80	100	40	4	-	3
5-T-VI	Financial Management	20	80	100	40	4	-	3
				600		24		
PRACTICAL								
Sr. No	Subject Practical	Term Work Marks	Marks Paper	Total	Passing Marks	No.of Theory	Periods Practi- Cals per week	Time for Exam
5-P-I	Food Production Management–I	--	--	--	--	--	8	--
5-P-II	Food & Beverage Management–I	--	--	--	--	--	4	--
5-P-III	Housekeeping Management–I	--	--	--	--	--	4	--
5-P-IV	Front Office Management–I	--	--	--	--	--	4	--
5-P-V	Application of Computer-I	--	--	--	--	--	4	--
							24	

Note:- Outdoor Catering 5 times
One Practical batch will consist of 16 students.
N.B. One period is of 48 Minutes

APPENDIX A

EXAMINATION LEADING TO BACHELOR OF HOTEL MANAGEMENT & CATERING
TECHNOLOGY, SEMESTER –VI

Sr. No	Subject (Theory)	Sessi- onal	Marks Paper	Total	Passing Marks	No. of Theory Per week	Periods Practi- cals	Time for Exam
6-T-I	Food Production Management -II	20	80	100	40	4	-	3
6-T-II	Food & Beverage Service Management -II	20	80	100	40	4	-	3
6-T-III	Housekeeping Management -II	20	80	100	40	4	-	3
6-T-IV	Front Office Management -II	20	80	100	40	4	-	3
6-T-V	Application of Computer - II	20	80	100	40	4	-	3
6-T-VI	Hospitality Marketing	20	80	100	40	4	-	3
				600		24		
PRACTICAL								
Sr. No	Subject Practical	Terms Works Marks	Marks Paper	Total	Passing Marks	No.of Theory	Periods Practi- Cals Per week	Time for Exam
6-P-I	Food Production Management -II	20	80	100	50	-	8	3
6-P-II	Food & Beverage Service Management -II	20	80	100	50	-	4	3
6-P-III	House Keeping Management -II	20	80	100	50	-	4	3
6-P-IV	Front Office Management -II	20	80	100	50	-	4	3
6-P-V	Applications of Computers-I & II	20	80	100	50	-	4	3
				500			24	

- Compulsory 2½ months (10 weeks) Industrial Training in Hotel/ Hospitality Organization.
- Log Book on training should be maintained by the student and signed by Training Co-ordinator / Head of the Deptt./Head of Institution
- Grade should be allotted as :- Excellent A, Very Good-B, Good-C, Fair-D, Poor-E.

One Practical batch will consist of 16 students.

N.B. One period is of 48 Minutes

APPENDIX A
EXAMINATION LEADING TO BACHELOR OF HOTEL MANAGEMENT & CATERING
TECHNOLOGY, SEMESTER –VII

Sr. No	Subject (Theory)	Sessi- onal	Marks Paper	Total	Passing Marks	No. of Theory per week	Periods Practi- Cals	Time for Exam
7-T-I	Food Production Management –III	20	80	100	40	4	-	3
7-T-II	Food & Beverage Service Management – III	20	80	100	40	4	-	3
7-T-III	Housekeeping Management -III	20	80	100	40	4	-	3
7-T-IV	Public Relation	20	80	100	40	4	-	3
7-T-V	Entrepreneurship Development	20	80	100	40	4	-	3
7-T-VI	Research Methodology	20	80	100	40	4	-	3
	Library	--	--	-	--	2	--	
				600		24+2 =26		
PRACTICAL								
Sr. No	Subject Practical	Term Work Marks	Marks Paper	Total	Passing Marks	No.of Theory	Periods Practi- Cals per week	Time for Exam
7-P-I	Food Production Management –III	--	--	--	--	--	8	--
7-P-II	Food & Beverage Service Management – III	--	--	--	--	--	4	--
7-P-III	Housekeeping Management -III	--	--	--	--	--	4	--
7-P-IV	Public Relation	--	--	--	--	--	4	--
7-P-V	Computer Based Training Presentation	--	--	--	--	--	2	--
							22	

One Practical batch will consist of 16 students.
N.B. One period is of 48 Minutes

APPENDIX A (8)
EXAMINATION LEADING TO BACHELOR OF HOTEL MANAGEMENT & CATERING
TECHNOLOGY, SEMESTER –VIII

Sr. No	Subject (Theory)	Sessional	Marks Paper	Total	Passing Marks	No. of Theory Per week	Periods Practicals	Time for Exam.
8-T-I	Advance Food Production	20	80	100	40	4	-	3
8-T-II	Advance Food & Beverage Service	20	80	100	40	4	-	3
8-T-III	Advance Accommodation Management	20	80	100	40	4	-	3
8-T-IV	Travel & Tourism	20	80	100	40	4	-	3
8-T-V	Human Resource Management	20	80	100	40	4	-	3
8-T-VI	Hospitality Laws & Licenses	20	80	100	40	4	-	3
				600		24		
PRACTICAL								
Sr. No	Subject Practical	Terms Works Marks	Marks Paper	Total	Passing Marks	No. of Theory	Periods Practicals per week	Time for Exam
8-P-I	Advance Food Production	20	80	100	50	-	8	3
8-P-II	Advance Food & Beverage Service	20	80	100	50	-	4	3
8-P-III	Advance Accommodation Service Management	20	80	100	50	-	4	3
8-P-IV	Public Relation & Travel & Tourism	20	80	100	50	-	2	3
8-P-V	Project work & Training Presentation	20	80	100	50	-	6	3
				500			24	

- On completion of 5 month training presentation will be evaluated by External & Internal examiners.

One Practical batch will consist of 16 students.

N.B. One period is of 48 Minutes

APPENDIX A (9)
General Rules and Regulations

A) Pattern of Question Paper

1. The Syllabus of every subject is divided into 5 units.
2. Students have to solve 5 questions. One questions each from each unit.
3. All questions should have equal weightage.
4. Each paper will be of 3 hours duration.

B) Absorption scheme:

- 1) While switching over to semester pattern, the failure students of yearly pattern will be given FIVE chances, to clear the examination.

- 2) If an examinee failed to pass the under graduate programme within EIGHT successive years (for Eight semesters degree) from the date of his / her first admission to particular programme he/ she shall be declared as “Not Fit for the Course (NFC)” and he/she will not be allowed to appear further for any previous examination of the course.

- 3) After four years from the date of implementation of semester pattern, any student passing-

FIRST year of Bachelor of Hotel Management & Catering Technology should be admitted to third semester.

SECOND year of Bachelor of Hotel Management & Catering Technology should be admitted to fifth semester.

THIRD year of Bachelor of Hotel Management & Catering Technology should be admitted to seventh semester.



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY
NAGPUR
(Established by Government of Central Provinces Education Department by Notification No. 513st
dated the 1st of August, 1923 & presently a State University governed by Maharashtra Public
Universities Act, 2016)

FACULTY OF SCIENCE AND TECHNOLOGY
DIRECTION NO. 11 of 2019
DIRECTION GOVERNING THE EXAMINATION LEADING TO THE DEGREE OF
BACHELOR OF APPLIED ELECTRONICS AND SOFTWARE TECHNOLOGY
(SEMESTER PATTERN)

(Directions issued under section 12(8) of the Maharashtra Public University Act 2016 relating to award of Bachelor degree in Applied Electronics and Software Technology in the Faculty of Science and Technology)

Whereas the Maharashtra Public Universities act No. 6 of 2016 has come into force with effect from 1st March 2017 and was amended from time to time,.

AND

WHEREAS, the University Grants Commission, New Delhi vide letter No.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 co-ordinator special task committee in Applied Electronics Technology in faculty of Science and Technology has submitted amendments to direction No. 75 as per direction no 13 of 2017 at its meeting held on 16-06-2017

AND

Whereas the Special Task Committee of Applied Electronics Technology in the Faculty of Home Science at its meeting held on 25-8-2016, have recommended for starting of semester pattern and prepared the syllabus and scheme of examination for Bachelor of Applied Electronics and Software Technology, commensurate with the governing guidelines.

AND

Whereas the Special Task Committee of Applied Electronics Technology in the Faculty of Science and Technology at its meeting held on 27-11-2018, have recommended Amendments to Direction No. 28 of 2017 and prepared the syllabus and scheme of examination for Bachelor of Applied Electronics and Software Technology, commensurate with the governing guidelines, to be implemented from academic session 2018-2019

APPENDIX 1 (Semester Pattern)

BACHELOR OF APPLIED ELECTRONICS & SOFTWARE TECHNOLOGY UNDER THE FACULTY OF HOME SCIENCE

Semester I

Sr. No.	Subjects	Maximum Sessional	Marks Paper/ Pract.	Total	Passing Marks	No. of Periods		Exam Time Hrs.
						TH	PR	
1-T-1	Applied Physics	10	40	50	20	4		2
1-P-1	Applied Physics		-				3	
1-T-2	Applied Chemistry	10	40	50	20	4		2
1-P-2	Applied Chemistry						3	
1-T-3	Computer Programming I	10	40	50	20	4		2
1-P-3	Computer Programming I						3	
1-T-4	Electrical Engineering	10	40	50	20	4		2
1-P-4	Electrical Engineering						3	
1-T-5	Engineering Mathematics I	10	40	50	20	4		2
1-T-6	Social Science	10	40	50	20	4		2
1-P-5	Communicative English						3	
1-P-6	Engineering Drawing I						6	
	Total Marks			300		24	21	

One practical batch will consists of 12-16 students.

APPENDIX 2

BACHELOR OF APPLIED ELECTRONICS & SOFTWARE TECHNOLOGY UNDER THE FACULTY OF HOME SCIENCE Semester II

Sr. No.	Subjects	Maximum Sessional	Marks Paper/ Pract.	Total	Passing Marks	No. of Periods		Exam Time Hrs.
						TH	PR	
2-T-1	Applied Physics	10	40	50	20	4		2
2-P-1	Applied Physics	20	80	100	50		3	3
2-T-2	Applied Chemistry	10	40	50	20	4		2
2-P-2	Applied Chemistry	20	80	100	50		3	3
2-T-3	Computer Programming I	10	40	50	20	4		2
2-P-3	Computer Programming I	20	80	100	50		3	3
2-T-4	Electrical Engineering	10	40	50	20	4		2
2-P-4	Electrical Engineering	20	80	100	50		3	3
2-T-5	Engineering Mathematics I	10	40	50	20	4		2
2-T-6	Social Science	10	40	50	20	4		2
2-P-5	Communicative English	20	80	100	50		3	3
2-P-6	Engineering Drawing I	20	80	100	50		6	3
Total Marks:				900		24	21	

One practical batch will consist of 12-16 students.

APPENDIX

BACHELOR OF APPLIED ELECTRONICS & SOFTWARE TECHNOLOGY UNDER THE FACULTY OF HOME SCIENCE

Semester III

Sr. No.	Subjects	Maximum Sessional	Marks Paper/ Pract.	Total	Passing Marks	No. of Periods		Exam Time Hrs.
						TH	PR	
3-T-1	Electron Devices and Circuits	10	40	50	20	4		2
3-P-1	Electron Devices and Circuits						3	
3-T-2	Digital Electronics	10	40	50	20	4		2
3-P-2	Digital Electronics						3	
3-T-3	Computer Programming II	10	40	50	20	4		2
3-P-3	Computer Programming II						3	
3-T-4	Engineering Mechanics	10	40	50	20	4		2
3-P-4	Engineering Drawing II						3	
3-T-5	Linear Network Analysis	10	40	50	20	4		2
3-T-6	Engineering Mathematics II	10	40	50	20	4		2
3-P-5	Workshop						3	
	Total Marks			300		24	15	

One practical batch will consist of 12-16 students.

APPENDIX

BACHELOR OF APPLIED ELECTRONICS & SOFTWARE TECHNOLOGY UNDER THE FACULTY OF HOME SCIENCE

Semester IV

Sr. No.	Subjects	Maximum Sess- ional	Marks Paper/ Pract.	Total	Passing Marks	No. of Periods		Exam Time Hrs.
						TH	PR	
4-T-1	Electron Devices and Circuits	10	40	50	20	4		2
4-P-1	Electron Devices and Circuits	20	80	100	50		3	3
4-T-2	Digital Electronics	10	40	50	20	4		2
4-P-2	Digital Electronics	20	80	100	50		3	3
4-T-3	Computer programming II	10	40	50	20	4		2
4-P-3	Computer programming II	20	80	100	50		3	3
4-T-4	Engineering Mechanics	10	40	50	20	4		2
4-P-4	Engineering Drawing II	20	80	100	50		3	3
4-T-5	Linear Network Analysis	10	40	50	20	4		2
4-T-6	Engineering Mathematics II	10	40	50	20	4		2
4-P-5	Workshop	20	80	100	50		3	3
	Total Marks			800		24	15	

One practical batch will consist of 12-16 students.

APPENDIX

BACHELOR OF APPLIED ELECTRONICS & SOFTWARE TECHNOLOGY UNDER THE FACULTY OF HOME SCIENCE

Semester V

Sr. No.	Subjects	Maximum Sessional	Marks Paper/ Pract.	Total	Passing Marks	No. of Periods		Exam Time Hrs.
						TH	PR	
5-T-1	Linear Integrated Circuits	10	40	50	20	4		2
5-P-1	Linear Integrated Circuits						3	
5-T-2	Microcontrollers	10	40	50	20	4		2
5-P-2	Microcontrollers						3	
5-T-3	Instrumentation and Control Systems	10	40	50	20	4		2
5-P-3	Instrumentation and Control Systems						3	
5-T-4	Digital Signal Processing	10	40	50	20	4		2
5-P-4	Digital Signal Processing						3	
5-T-5	Algorithm and Data Structure	10	40	50	20	4		2
5-P-5	Algorithm and Data Structure						3	
5-T-6	Communication Electronics	10	40	50	20	4		2
	Total Marks			300		24	15	

APPENDIX

BACHELOR OF APPLIED ELECTRONICS & SOFTWARE TECHNOLOGY UNDER THE FACULTY OF HOME SCIENCE

Semester VI

Sr. No.	Subjects	Maximum Sessional	Marks Paper/ Pract.	Total	Passing Marks	No. of Periods		Exam Time Hrs.
						TH	PR	
6-T-1	Linear Integrated Circuits	10	40	50	20	4		2
6-P-1	Linear Integrated Circuits	20	80	100	50		3	3
6-T-2	Microcontrollers	10	40	50	20	4		2
6-P-2	Microcontrollers	20	80	100	50		3	3
6-T-3	Instrumentation and Control Systems	10	40	50	20	4		2
6-P-3	Instrumentation and Control Systems	20	80	100	50		3	3
6-T-4	Digital Signal Processing	10	40	50	20	4		2
6-P-4	Digital Signal Processing	20	80	100	50		3	3
6-T-5	Algorithm and Data Structure	10	40	50	20	4		2
6-P-5	Algorithm and Data Structure	20	80	100	50		3	3
6-T-6	Communication Electronics	10	40	50	20	4		2
	Total Marks			800		24	15	

APPENDIX

BACHELOR OF APPLIED ELECTRONICS & SOFTWARE TECHNOLOGY UNDER THE FACULTY OF HOME SCIENCE

Semester VII

Sr. No.	Subjects	Maximum Sessional	Marks Paper/ Pract.	Total	Passing Marks	No. of Periods		Exam Time Hrs.
						TH	PR	
7-T-1	Circuit Design	10	40	50	20	4		2
7-P-1	Circuit Design						3	
7-T-2	Advanced Microcontrollers	10	40	50	20	4		2
7-P-2	Advanced Microcontrollers						3	
7-T-3	System Design	10	40	50	20	4		2
7-P-3	System Design						3	
7-T-4	Advanced Programming	10	40	50	20	4		2
7-P-4	Advanced Programming						3	
7-T-5	Industrial Organisation & Management	10	40	50	20	4		2
7-T-6	Data Base Management system	10	40	50	20	4		2
7-P-5	Project						3	
	Total Marks			300		24	15	

One practical batch will consist of 12-16 students.

APPENDIX

BACHELOR OF APPLIED ELECTRONICS & SOFTWARE TECHNOLOGY UNDER THE FACULTY OF HOME SCIENCE

Semester VIII

Sr. No.	Subjects	Maxi- mum Sess- ional	Marks Paper/ Pract.	Total	Passing Marks	No. of Periods		Exam Time Hrs.
						TH	PR	
8-T-1	Circuit Design	10	40	50	20	4		2
8-P-1	Circuit Design	20	80	100	50		3	3
8-T-2	Advanced Microcontrollers	10	40	50	20	4		2
8-P-2	Advanced Microcontrollers	20	80	100	50		3	3
8-T-3	System Design	10	40	50	20	4		2
8-P-3	System Design	20	80	100	50		3	3
8-T-4	Advanced Programming	10	40	50	20	4		2
8-P-4	Advanced Programming	20	80	100	50		3	3
8-T-5	Industrial organisation & Management	10	40	50	20	4		2
8-T-6	Elective	10	40	50	20	4		2
8-P-5	Project	20	80	100	50		3	3
	Total Marks			800		24	15	

Elective (8-T-6) :i) Computer Network ii) Mobile Communication iii) Television

One practical batch will consists of 12-16 students.



**RASHTRASANT TUKADOJI MAHARAJNAGPUR UNIVERSITY
NAGPUR**

**(Established by Government of Central Provinces Education Department by
Notification No. 513 dated the 1st of August, 1923 & presently a state university
governed by Maharashtra Public University Act 2016)**

FACULTY OF SCIENCE AND TECHNOLOGY

DIRECTION NO 12 of 2019

**DIRECTION GOVERNING THE EXAMINATION LEADING TO THE DEGREE OF
BACHELOR OF INTERIOR DESIGN.**

(SEMESTER PATTERN)

(Direction issued under Section 12(8) of the Maharashtra Public University Act. 2016 relating to award of Bachelor's degree in Interior Design in the Faculty of Science and Technology)

Whereas the Maharashtra Public Universities Act No. 6 of 2016 has come into force with effect from 1st March 2017 and was amended from time to time.

AND

WHEREAS, the University Grants Commission, New Delhi vide letter No. 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 Coordinator Special Task Committee of House and Interior Design Technology in the Faculty of Science and Technology at its meeting held on 16/06/2017, has submitted the amendments to Direction no. 72 in accordance with Direction no. 13 of 2017

AND

Part – IV PAPERS

Sr. No.	Scheme for BID 4 year- (Part – IV)	Scheme for BID 4 year- (Semester VII,VIII)
1	Apprentice Training	Apprentice Training I and II
2	Project Work	Project Work
3	Interior Landscape	Interior Landscape I and II
4	Seminar	-----
5	Interior Detailing	Interior Detailing I, Interior Design VIII
6	Structure III	Structure V and VI
7	Professional Practice	Design Management I and II
8	-----	Environmental Psychology
9	-----	Green Building Technology
10	-----	Interior Design VII

As per the above scheme:-

1. The candidates of old Bachelor of Interior Design 4 year shall have to appear for the subjects 'Environmental Psychology', 'Green Building Technology' and 'Interior Design VII' of Semester VII and VIII.
2. Apprentice Training at Fourth Year level shall be completed in two phases by candidates. Two months after VI Semester and three months after completion of VIII Semester.
3. The marks secured by them in other papers will be considered as marks secured in papers mentioned against the respective papers in a span of two semesters.
4. In the interest of the students, students of old course (yearly pattern) may be allowed 1+5 chances to pass the subjects of the concerned year, after commencement of new course (semester pattern).

Appendix
Teaching and Examination Scheme
Bachelor of Interior Design
Four Year(Eight Semester) Degree Course
BID Semester VIII

S. No.	Subject	Teaching Scheme	Examination Scheme				
			Duration Hrs.	Max. Marks. Th. Paper	Max. Internal Assessment	Total	Min. passing marks.
8T1	Interior Design VIII	9	12*	80	20	100	40
8T2	Interior Landscape -II	3	2	40	10	50	20
8T3	Green Building Technology	3	2	40	10	50	20
8T4	Structure - VI	3	2	40	10	50	20
8T5	Design Management II	2	2	40	10	50	20
8T6	Project Work	3	..	.	100	100	40
8T7	Apprentice Training II	50	50	20

Note:

1) Th = Theory, Max = Maximum, Min = Minimum

2) Minimum marks for passing will be 40% of the total marks allotted to that paper or Internal assessment.

* The exam duration for Interior Design VIII is 12 hours (3 hours in two sittings for two days) as the students have to design full project of interiors with all details.

Grand Total of semester VIII - 450 marks.

INTERIOR DESIGN
SEMESTER V
5T1 INTERIOR DESIGN V
PAPER I

Sessional Work – 100

Total Marks --100

Passing Marks -40

AIM:To create commercial and public interior spaces responding to needs of the users and society in general . To apply knowledge of various streams like behaviour ,user and customer psychology , building technology , services , acoustics etc. in giving design solutions to enhance the qualitative aspects of life / usage.

COURSE CONTENT: The course for the semester will be focused on commercial spaces , institutional spaces , eateries , hospitals hostels etc. Based on this the following units will be dealt with for each project however emphasis could vary for assessment for every design project .

UNIT I: Developing floor plans with facilitation and clearances with all relevant details with specifications .Generating reflected ceiling plan/s and its detailing with specification and finishes

UNIT II:Developing wall elevations and relevant sections with materials and finishes and specifications

UNIT III: Generating working drawings of furniture designed furniture and other relevant components

UNIT IV: Integrating services in interiors ,; electrification , AC , lighting plan etc.

UNIT V: Generating views sketch views and perspectives.

SESSIONAL WORK :

1. At least two major projects and two short problems need to be done in a semester for better exposure to various nuances of designing better and quality spaces.
2. Designing of majorly non-residential projects , Developing floor plans , detailing , writing specifications and generating working drawings of furniture , applying digital output methods .
3. Understanding typical non-residential building types .human scale and dimension as applied to public spaces . reflected ceiling plans advanced powerpoint presentations ,
4. Field trips – to be determined by faculty.

REFERENCES:

4. Time saver standards for building types, DeChiaraandCallender, McGrawhillcompany.
5. Neufert Architect's data, BousmahaBaiche& Nicholas Walliman, Blackwell science ltd.
6. National Building Code – ISI

**INTERIOR DESIGN
SEMESTER VI
6T1 INTERIOR DESIGNVI
PAPER I**

Theory --80
Sessional Work – 20
Total Marks -- 100
Passing Marks- 40

AIM: To establish the linkages between the culture and traditional ethos and its manifestation in the built environment / architecture , arts , crafts and interiors of that region. Students of design need sensitizing to various cultural manifestations in built spaces and need to understand the symbolism , patterns and forms that exist and existed in the interiors to make them unique as opposed to mass producing of spaces viz. contemporary residential and housing developments for lower income group

COURSE CONTENT: The course for the semester will be focused on styles (viz. period , historic and regional.) and corporate / contemporary interiors Based on this the following units will be dealt with for each project however emphasis could vary for assessment for every design project .

UNIT I

Developing floor plans with facilitation and clearances with all relevant details with specifications .Generating reflected ceiling plan/s and its detailing with specification and finishes

UNIT II:

Developing wall elevations and relevant sections with materials and finishes and specifications

UNIT III:

Generating working drawings of furniture, designed furniture and other relevant components and interior finishes.

UNIT IV:

Integrating services in interiors ,; electrification , AC , lighting plan etc.

UNIT V:

Generating views sketch views and perspectives

SESSIONAL WORK:

1. At least two major projects and two eskeys need to be done in a semester for better exposure to various nuances of designing better and quality spaces.
2. Designing of majorly non-residential projects , Developing floor plans , reflected ceiling plans ,detailing , writing specifications and generating working drawings of furniture , applying digital output methods .

INTERIOR DESIGN

SEMESTER VIII

8T6 PROJECT

Viva voce - 100

Total Marks - 100

Passing Marks: 40

AIM: Research – Thesis.

- The area of work chosen by the student with the guidance of a faculty member could be in any of the following areas :-
- History and theory of interior spaces, interior design language of various culture , art and craft from its relevance in to interior spaces , mass production of various interior elements, material search, urban interiors , graphics and space psychology and human behaviour or any other issue accepted by the institution as relevant to the field of interior design.

EVALUATION

- The study would be presented as a written document with supporting illustration periodically reviewed and examined by an external examiner.

**Revised Syllabus of
Two-Years' Post-graduate Degree Course (Master of Arts)
in Political Science**

(A) OBJECTIVES

Political Science as a discipline of study is basically known as the science of ruling and the study of the rulers and the ruled. Traditionally, it covered the study of man in the process of governing himself. Today, Political Science is known as the Master of Social Sciences. It encompasses the study of Man in relation to the State, Society, Nation and the World. It deals with not merely the structure of governments and administration and study of political theories that hold sway over human life, rights and duties of the citizens, but also the developmental processes. Political Science has today entered into various realms and touched many horizons. It has assumed an inter-disciplinary character. The subject matter of Political science is changing fast and so we need to rely on new conceptual instruments that allow us a better understanding of political phenomena. Similarly we need to explore new tools for analysis within the discipline. This is a time to ponder over whether Political Science's categories and concepts are useful for an increasingly complex world. A student of Political Science cannot remain oblivious of the processes of every decision-making and the socio-economic orientations behind them. The proposed postgraduate course in Political Science is designed in the light of these new dimensions of political science in the changing world. It will impart basic principles, ideas, themes, concepts of the subject as well as relate those to the latest developments. It is also expected to spread the understanding our new political reality and the relationship between Political Science and the professionals of politics.

Following are the broad objectives of the course :-

1. To enable students to understand the entire gamut of Political science and its inter-relationship with other disciplines;
2. To appraise the students of recent trends in Political Science and the new methodologies of studying new trends;
3. To develop those analytical faculties of the students that will help him study the changes taking place around him;
4. To appraise students of changing social and economic situation in India and in the world and their impact on the political sphere;
5. To develop inter-disciplinary outlook and comprehensive understanding among the students about political realities;
6. To inculcate research and analytical abilities among students and encourage re-conceptualization of politics vis-à-vis the economy;
7. To enable students to understand basic rights and duties of the citizen and their own role in the whole process of development;

- 2) Each paper will be of 80 (Eighty) marks of 3-hours duration
- 3) There will be two questions on each unit of syllabus
- 4) The question-paper will consist of Five questions with two internal choices in question.
- 5) The fifth question will be common from all Units.
- 6) Student will have to answer all the five questions.
- 7) Each question will carry 16 marks.

(b) Internal Evaluation :

- 1) There will be Internal Evaluation of each student in each paper at the end of every semester.
- 2) Internal evaluation will be of 20 marks for each paper. It will consist of 10 marks for Assignments / Research Paper Writing / Book Review / Survey / Project / Study Tour.
- 3) The teacher concerned will decide the task to be given to the student and will also evaluate the performance of the student
- 4) Internal Assessment will also consist of 10 marks for Personal Interview.
- 5) Personal Interview will be conducted jointly by the faculty of the department OR teachers concerned and the Principal of the College.

(F) STANDARD OF PASSING

- 1) The students should secure minimum 32 marks out of 80 in the Written Semester examination in each paper.
- 2) Minimum passing marks is 8 (Eight) out of 20 in Continuous Internal Evaluation in each paper.
- 3) The students **must pass in both**, the Written Semester Examination and Continuous Internal Evaluation, **separately**.

(G) CREDIT AND GRADE POINT SYSTEM

The Semester pattern, award of Credits and allotment of Grade Points will be decided by the RTMNU as per the ordinances, rules, & regulations passed by it on this matter.

(H) ABSORPTION SCHEME

1. The failure students appearing as per annual pattern i.e., old pattern of syllabi will get two (2) chances to clear the annual pattern examination; one in summer and one in winter.
2. In the Semester pattern, students seeking admission to third semester must clear first semester in both, theory and internal.
3. First year annual pattern students can get admission to third semester directly, provided they clear all the papers in one attempt.
4. Rules & regulations passed by RTMNU in this matter will govern the absorption scheme.

RASHTRASANT TUKDOJI MAHARAJ
NAGPUR UNIVERSITY, NAGPUR.

FACULTY OF SOCIAL SCIENCE

M.A. HOME ECONOMICS

CBCS Syllabus

Choice Based Credit System

2017-2018

Rashtrasant Tukdoji Maharaj Nagpur University.

Nagpur

Revised Syllabus of M.A. HOME-ECONOMICS.

Choice Based Credit System

Submitted

Date:

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Rashtra Sant Tukadoji Maharaj Nagpur University, Nagpur.

M.A. Home Economics (Choice Based Credit System)

Semester I

Sr. No.	Paper	Subject code	Subject	Teaching Scheme (Hrs/Week)			Credit 1 Hr.Th.= 1 2 Hr. Pr.= 1	Examination Scheme				
				Theory (Hours)	Practical/ Project (Hours)	Total (Hours)		Duration (Hours)	Max. Marks		Total Marks	Min. Passing Marks
									External Th. Marks	Pract./ Internal Marks.		
1	I	1T1	Resource Management	04	02	06	05	03	80	20	100	40
2	II	1T2	Human Development	04	02	06	05	03	80	20	100	40
3	III	1T3	Textile and Clothing	04	02	06	05	03	80	20	100	40
4	IV	1T4	Research Methods and Statistics	04	02	06	05	03	80	20	100	40
5	Practical	1P3	Textile and Clothing Practical	---	04	04	02	03	80	20	100	40
			Total	16	12	28	22	15	400	100	500	200

(Subject Code: 1-Semester I, T-Theory, P-Practical)

Rashtra Sant Tukadoji Maharaj Nagpur University, Nagpur.

M.A. Home Economics (Choice Based Credit System)

Semester II

Sr. No.	Paper	Subject code	Subject	Teaching Scheme (Hrs/Week)			Credit 1Hr. Th.= 1 2Hr. Pr.= 1	Examination Scheme				
				Theory (Hours)	Practical/Project (Hours)	Total (Hours)		Duration (Hours)	Max. Marks		Total Marks	Min. Passing Marks
									External Th. Marks	Pract./Internal Marks.		
1	I	2T1	Resource Management	04	02	06	05	03	80	20	100	40
2	II	2T2	Human Development	04	02	06	05	03	80	20	100	40
3	III	2T3	Textile and Clothing	04	02	06	05	03	80	20	100	40
4	IV	2T4	Research Methods and Statistics	04	02	06	05	03	80	20	100	40
5	Practical	2P3	Textile and Clothing Practical	----	04	04	02	03	80	20	100	40
			Total	16	12	28	22	15	400	100	500	200

(Subject Code: 2-Semester II, T-Theory , P-Practical)

Unit - III

- a) Report Writing – Preparation of report, Objectives of Research Report, content of good Report, characteristics of good Report, Steps in Report Writing, Importance of report writing, Bibliography, preparation of an abstract and research paper for publication.
- b) Graphical and diagrammatic representation- Types of graphs, Importance/Merits of graphical representation, Demerits of graphs. Objectives of Diagram, Importance/Merits of Diagrammatic representation, Limitations, characteristics of Diagrammatic representation. Importance and Application of Computer in Research.
- c) Association of attributes.

Unit – IV

- a) Chi square and its application.
- b) t test and f test and its application.
- c) Analysis of Variance (One way ANOVA).

Sessional:

20 Marks.

Pilot Study – (Sample Size – 25)

10Marks

Classification and tabulation of collected data in First Semester .

Diagrammatic and graphical representation of data.

Interpretation of data and Conclusions.

Report writing.

Assignment -

10 Marks.

- 1. Statistical problems on related topics.

References:

- 1 The Science of Educational Research – G.J. Mouley.
- 2 The Elements of Research – F.L. Whitney.
- 3 An Introduction of Scientific Research – E.B. Wilson.
- 4 A Handbook of Methodology of Research – Dr. R.P. Devdas
- 5 Methods in Social Research – Goode & Hart.
- 6 Statistical Analysis in Psychology and Education – Ferguson.
- 7 Methodology an Technique of Social Research – Wilkinson and Bhandarkar.
- 8 Fundamentals of Applied Statistics – S.C. Gupta
- 9 An Introduction of Statistical Methods – C.B. Gupta
- 10 Practical Problems in Statistics – D.N. Elhance.
- 11 Fundamental Statistical in Psychology and Education – By J.P. Gulford.
- 12 Statistics in Psychology and Education – Henry Garrett.
- 13 Applied General Statistics – Crowdon & Croxton
- 14 Sampling Methods for census and Education – G.A. Ferguson.
- 15 Surveys, Polls and Sampling – Mildred Parton.

M. A. Home Economics
Semester II
Textile and Clothing Practical
Subject Code – 2P3

Total Mark: 100
External: 80
Internal: 20

- 1. Drafting Cutting and Stitching of five garments- 20**
a) Salwar/Chudidar
b) Kurta
c) Skirt
d) Top
e) Blouse with yoke/Katori Blouse
- 2. Making Two samples of-- 10**
Seams, Pockets, Plackets, Tucks and Pleats

3. Article making- Total Marks: 25

- 1. Making Article using surface ornamentation techniques 15**
(Tucks/Gathers/Pleats/Piping/Ruffles)- (Any One) -
Pillow cover/Cushion Cover/Table mats/Table Runner/Bags
- 2. Making different types of yoke-(Any two) 10**

Marking Scheme for Practical Examination- Total Marks: 25 (Time – Three Hours)

- 1. Drafting, Cutting and Stitching of Any one garment- 15**
a) Salwar/Chudidar b) Kurta c) Skirt d) Top e) Blouse with yoke/Katori Blouse
Drafting 05
Stitching 08
Finishing 02
- 2. Any two Sample 05**
Seams, Pockets, Plackets, Tucks and Pleats
- 3. Viva-Voce 05**

Internal Activity- 20 (10+10)

1. Visit to Boutique/Ready made garment showrooms /Garment Exhibition and writing a report of the visit.
2. Making survey of recent Fashion trends and presentation.

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M.A. Home Economics (Choice Based Credit System)

Semester III

Sr. No.	Paper	Subject Code	Subject	Teaching Scheme (Hrs/Week)			Credit 1Hr.Th.= 1 2Hr. Pr.=1	Duration (Hours)	Examination Scheme			
				Theory (Hours)	Practical/ Project (Hours)	Total (Hours)			Max. Marks		Total Marks	Min. Passing Marks
									External Th. Marks	Pract./ Internal Marks.		
1	I	3T1	Food and Nutrition	04	02	06	05	03	80	20	100	40
2	II	3T2	Family Dynamics	04	02	06	05	03	80	20	100	40
3	III	3T3	Elective 1(a) Home Science Extension Education OR Elective 1(b) Housing and Interior	04	02	06	05	03	80	20	100	40
4	IV	3T4	A) - Core- Consumer and The Market OR B) -Foundation Course	04	02	06	05	03	80	20	100	40

5	Practical	3P1	Food and Nutrition Practical	--	04	04	02	03	80	20	100	40
			Total	16	12	28	22	15	400	100	500	200

(Subject Code: 3-Semester III, T-Theory, P-Practical)

Note: Foundation Course for Students from Other Discipline.

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M.A. Home Economics (Choice Based Credit System)

Semester IV

Sr. No.	Paper	Subject Code	Subject	Teaching Scheme (Hrs/Week)			Credit 1Hr.Th.= 1 2Hr. Pr.=1	Duration (Hours)	Examination Scheme			
				Theory (Hours)	Practical/ Project (Hours)	Total (Hours)			Max. Marks		Total Marks	Min. Passing Marks
									External Th. Marks	Pract./ Internal Marks.		
1	I	4T1	Food and Nutrition	04	02	06	05	03	80	20	100	40
2	II	4T2	Family Dynamics	04	02	06	05	03	80	20	100	40
3	III	4T3	Elective 1(a) Home Science Extension Education OR Elective 1(b) Housing and Interior	04	02	06	05	03	80	20	100	40
4	IV	4T4	A.- Core- Consumer and The Market OR B.-Foundation Course	04	02	06	05	03	80	20	100	40

5	Practical	4P1	Food and Nutrition Practical	--	04	04	02	03	80	20	100	40
			Total	16	12	28	22	15	400	100	500	200

(Subject Code: 4-Semester IV, T-Theory, P-Practical)

Note: Foundation Course for Students from Other Discipline.

Tensions in Secondary and Familial situation.

Alternate families – Single Parent, Childless Families and Female Headed Families.

Unit - IV

- a) Family relationships
Influence of the family on children.
Influence of parental attitude on family relationship.
Disciplinary methods used by elders, its effect on the family.
- b) Family size, its influence on family relationship.
Sibling relationship, its effect on family relationship.
Influence of broken homes on family relationship
- c) Preference for one parent and its effect on parent – child relationship.
Influence of concept of family roles on family relationship.

Sessional:

20 Marks

- a. Assignment on curriculum related topics. **10 Marks**
- b. Survey and Report writing. (Sample size 20) **10 Marks**
 - Types of family/Types of Marriage.

References:

1. Marriage and Parenthood – F. Philip Rice. University of Maine.
2. Marriage, the family and personal fulfillment – David Schulz.
3. Marriage and divorce problems – S.K. Sharma.
4. Personal adjustment and Marriage – Landis and Landis.
5. Sociology – Bogardus.
6. Vivaha aani Kautimbik Sambandh- Triveni Pharkade.

Unit –IV

a) Concept of Vastushastra in Housing

Historical background of Vastushastra.

Location of rooms and walls.

Placement of doors and accessories.

b) Landscaping :-

Concept and importance of landscaping.

Approaching landscape design with an artistic touch – space, line, form, texture, colour, balance, rhythm, scale and proportion.

Factors associated with the choice of landscape design.

c) Bonsai :-

History.

Preparation of Soil and Selection of Plants.

Selection of Containers, Potting and Repotting, Care Of Bonsai.

Sessional:

20 Marks

1. Seminar/Assignments based on curriculum
2. Project work, survey based on subject curriculum and Report writing .

References:

1. Ruth Morran, 'The Home and Its Furnishings.
 2. Shrivastav – 'Remedial Vastushastra, Manoj Publications, Delhi, 2001.
 3. Wonderworld of Tropical – Bonsai - Jyoti & Nikunj Parekh
 4. The complete practical encyclopedia of Bonsai - Ken Norman.
-

- c) Law of diminishing marginal utility, Marginal and Total Utility, utility and price of the commodity, consumer's equilibrium – scale of preference, Indifference curve.

Unit - III

- a) Consumer's Demand, demand and types of elasticity of Demand.
b) Determinants of Elasticity of Demand. Factors affecting Demand.
c) Characteristics of a good budget planning, A budget for family with fixed income and seasonal income.

Unit – IV

- a) Consumer Buyer Decision Process, Types and Motivating factors of purchase decision, social effects of consumer's decisions. Types of purchasing practices of consumers and their merits and demerits.
b) Price and price level, Role of price, factors affecting price, demand and supply. Price determination under perfect competition and monopoly, Characteristics of Monopoly.
c) Factors affecting price level and effect of price level and fluctuations on consumers and society.

Sessional:

20 Marks

- i) Survey and report writing on (Sample size 20) **15 Marks**
- Motivating factors of purchase decisions
- OR
- Types of purchasing Practices
- ii) Assignment on curriculum related topics. **05 Marks**

Reference Books:

- 1) Consumer Economics – Principles and Problems – Wilhelms and Heamer.
- 2) The Family as Consumers – Oppenheim
- 3) Economics for Consumers – L.J. Gordon

Meaning of peace, importance of introduction of peace education at home and in schools.

Unit – III: Concept of Aging and the Aging Process

- a) Biological and physiological aspects, psychological aspect, Social aspect, retired status, single status, economic status, security, social adjustment and recognition, spiritual aspect.
- b) Adjustment pattern and changing lifestyle during old – age. Family pattern during old-age :- changing roles and the aging family, conjugal husband-wife relationship, sexual adjustment. Intergenerational family relations, grand parenthood, widowhood, Alternative life style, second marriage in old-age.
- c) Services and programs for the aged : - Laws and facilities favoring the senior citizens. Categories of services : - Housing, Health, leisure time activities, institution for the aged, (old age homes, adoption of the old) day care centers, rearrangement after retirement, economic programmes – retirement pension, death cum retirement gratuity, provident fund, insurance schemes.

Unit – IV: Mental health and hygiene

- a) Emotions and mental health :- Anger and hostility, fear and anxiety, defense mechanisms, kinds of mental illnesses, Reasons leading to Mental Ill health, Factors affecting mental health and maintaining mental health.
- b) Concept of mental hygiene. Value of prevention of mental ill health during child-hood.
- c) Mental health agencies- National Association of Mental Health, State Mental Health Agencies , Child Guidance Clinics, Government and non – government mental health agencies.
- d)

Sessional:

20 Marks

- a. Assignment on curriculum related topics. **05 Marks**
- b. Survey and Report writing. (Sample size 20) **15Marks**

Problems faced by working women/Home for the aged (1 home)

References:

1. Women in India – a search for identity – Sharada Rath.
2. Women and Society – G. Vijayeshwari Rao
3. Contemporary social problems in India. – B. Ghosh.
4. Aging and the aged.- Paul Chowdhry.
5. Women and the Law. – Anjani Kant.
6. Health and Safety for you – Franklin C. Vaughn.

c) Role of Different Organizations in Environment Management

Role of National and International organizations in environment management.

Public policy toward environment management.

Environment protection enactments.

Sessional:

20 Marks

1. Seminar/Assignments based on curriculum
2. Project work, survey based on subject curriculum and Report writing.

References:

1. Agan. T.C.- 'The House', Oxford and I.B.H. publishing co.
2. Deshpande, R.S. – 'Modern India Homes in India', United Book Corporation, Poona, 2nd edition.
3. Rutt, A. – 'Home Furnishing', Wiley Eastern Pvt. Ltd., New Delhi, 2nd edition.
4. Pak-Fin and Helen Yeap – 'Feng-Shui, Health Harmony', B. Jain Publishers Pvt. Ltd., New Delhi, 1998.
5. Goptlied, L.D., 'Environment and Design in Housing'
6. Paryavarnshastra - Erak Bharucha
7. Gruha Vyavastha aevam Gruha Kala- Dr G.P. Shiery
8. dkSVqafcd lalk/kukaps O;oLFkkiu vkf.k x`g ltkoV & f=os.kh QjdkMs vkf.k lqyHkk xksaxs-

Unit –III

- a) Market – Meaning and types of market, Organization, functions and control of market, channels of distribution – Retail shop, wholesale marketing, Departmental stores, Co-operative stores, shopping Malls, Role and utility of middleman in the market.
- b) Packing and delivery, Return facility, Facility for inspection and selection Gurantee, use of phone and internet in purchasing.
- c) Methods of payment, Cash, Credit, Credit Card and Debit Card, Hire purchase and installment payments.

Unit –IV

- a) Advertising and Salesmanship - Meaning and objectives of Advertisement, Modes of Advertisement.
- b) Responsibility of women as consumer. Deteriorating image of women in advertisement.
- c) Need for control over advertising –By Government, Traders, Associations and Consumers.

Sessional:

20 Marks

- ii) Survey and report writing on (Sample size 20) **15 Marks**
 - Awareness about consumer protection ActsOR
 - Methods of payment.

- ii) Assignment on curriculum related topics. **05 Marks**

Reference Books:

- 1) Consumer Economics – Principles and Problems – Wilhelms and Heamer.
- 2) The Family as Consumers – Oppenheim
- 3) Economics for Consumers – L.J. Gordon
- 4) Consumer Economics J.N. Morgon
- 5) Consumer Economics Problems – E.B. Phil
- 6) Consumer Problems and Personal Finance – A.W. Troelstrup.

M. COM. SEMESTER-I
C-11: Paper-I: Advanced Financial Accounting

Marks: 80

Unit- I

Accounting standards: Indian Accounting standards, International Accounting standards
Valuations of Goodwill and shares – Including preference and Bonus shares.
Accounts of Holding companies (Including rights issue and Bonus Issue of Shares, Inter
owing)

Unit- II

Computer Software Accounting.

Company Statutory Records, Statutory Books of Accounts & Registers.
Statutory Reports Corporate Governance.

Fire insurance Claims – (Poor Selling Live Goods) Including Loss of Profit Policies

Unit- III

New Trends in Accounting:-

Inflation Accounting, Human Resources Accounting, Social Accounting, Lease Financing.
Internal and External reconstruction, Amalgamation and Absorption of the companies.

Unit- IV

Hire Purchase Accounting :

Re-possession ; Partial Re-possession and Complete Re-possession
Hire Purchase stock and Debtors Method

Books Recommended:-

- 1) Gupta R. L. – Advanced Financial Accounting – S. Chand & Sons
- 2) Kumar, Anil S. – Advanced Financial Accounting – Himalaya Publication House
- 3) Shukla and Grewal : Advanced Accounts (S. Chand & Ltd. New Delhi)
- 4) Jain and Narang : Advanced Accounts (Kalyani Publishers, Ludhiana)
- 5) Sr. K. Paul : Accountancy, Volume –I and II (New Central Book Agency, Kolkata)
- 6) R. K..Lele and Jawaharlal : Accounting Theory (Himalaya Publishers)
- 7) Dr. L. S. Porwal : Accounting Theory (Tata McGraw Hill)
- 8) Robert Anthony, D. F. Hawkins & K. A. Merchant : Accounting Text & Cases
(Tata McGraaw Hill)
- 9) Dr. S. N. Maheshwari : Corporate Accounting (Vikas Publishing House Pvt.
Lit. New Delhi)
- 10) Dr. Ashok Sehgal& Dr. Deepak Sehgal : Advanced Accounting (Taxmann,
New Delhi)

International Business Environment

Time: 3 Hours

Marks: 80

**N.B. 1) All questions are compulsory.
2) All questions carry equal marks.**

1	Unit –I	a.	Theory	08 marks
		b	Theory	08marks

OR

			C Theory	16 marks
2	Unit –II	a.	Theory	08 marks
		b	Theory	08marks

OR

			C Theory	16 marks
3	Unit –	a.	Theory	08 marks
		b	Theory	08marks

OR

			C Theory	16 marks
4	Unit –IV	a.	Theory	08 marks
		b	Theory	08marks

OR

			C Theory	16 marks
5	Unit-I	a	Theory	04 marks
	Unit-II	b	Theory	04 marks
	Unit-III	c	Theory	04 marks
	Unit-IV	d	Theory	04 marks

2) C42-PROJECT WORK

SYLLABUS for M. Sc. BIOTECHNOLOGY
Choice Based Credit System (Semester Pattern)
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
Effective from 2018-2019

Candidates opting for this course are advised to go through the direction relating to the course “DIRECTION RELATING TO THE EXAMINATION LEADING TO THE DEGREE OF MASTER OF SCIENCE, SEMESTER PATTERN (CHOICE BASED CREDIT SYSTEM) AND DEGREE OF MASTER OF SCIENCE AND TECHNOLOGY (APPLIED GEOLOGY). SEMESTER PATTERN, (CHOICE BASED CREDIT SYSTEM) (FACULTY OF SCIENCE & TECHNOLOGY)” which is available on R. T. M. Nagpur University website.

The direction will provide details on admission criteria, rules for ATKT, scheme of examination, absorption scheme for CBS students into CBCS pattern, elective papers, foundation course papers, subject centric papers, coding pattern, pattern of question papers, practicals, distribution of marks, seminars, project work, internal assessment, calculation of SGPA and CGPA, etc.

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

M. Sc. Biotechnology Semester I												
Code	Theory / Practical	Teaching scheme (Hours / Week)				Credits	Examination Scheme					
		Th	Pract	Total	Duration in hrs.		Max. Marks		Total Marks	Minimum Passing Marks		
							External Marks	Internal Ass		Th	Pract	
Core 1 (1T1)	Paper 1: Cell Biology and Enzymology	4	-	4	4	3	80	20	100	40		
Core 2 (1T2)	Paper 2: Molecular Biology	4	-	4	4	3	80	20	100	40		
Core 3 (1T3)	Paper 3: Biomolecules	4	-	4	4	3	80	20	100	40		
Core 4 (1T4)	Paper 4: Biophysical Techniques	4	-	4	4	3	80	20	100	40		
Pract. Core 1 & 2 (1P1)	Practical 1: Cell Biology and Enzymology	-	8	8	4	3-8*	100*	-	100		40	
Pract. Core 3 & 4 (1P2)	Practical 2: Macromolecules & Analytical Techniques	-	8	8	4	3-8*	100*	-	100		40	
Seminar 1 (1S1)	Seminar 1	2	-	2	1			25	25	10		
	TOTAL	18	16	34	25		520	105	625	170	80	

M. Sc. Biotechnology Semester II											
Code	Theory / Practical	Teaching scheme (Hours / Week)			Credits	Examination Scheme					
		Th	Pract	Total		Duration in hrs.	Max. Marks		Total Marks	Minimum Passing Marks	
							External Marks	Internal Ass		Th	Pract
Core 5 (2T1)	Paper 5: Microbiology	4	-	4	4	3	80	20	100	40	
Core 6 (2T2)	Paper 6: Immunology	4	-	4	4	3	80	20	100	40	
Core 7 (2T3)	Paper 7: Fundamentals of Genetic Engineering	4	-	4	4	3	80	20	100	40	
Core 8 (2T4)	Paper 8: Applied Molecular Biology	4	-	4	4	3	80	20	100	40	
Pract. Core 5 & 6 (2P1)	Practical 3: Microbiology & Immunology	-	8	8	4	3-8*	100*	-	100		40
Pract. Core 7 & 8 (2P2)	Practical 4: Genetic Engineering & Applied Molecular Biology	-	8	8	4	3-8*	100*	-	100		40
Seminar 2 (2S1)	Seminar 2	2	-	2	1			25	25	10	
TOTAL		18	16	34	25		520	105	625	170	80

M. Sc. Biotechnology Semester III												
Code	Theory / Practical	Teaching scheme (Hours / Week)				Credits	Examination Scheme					
		Th	Pract	Total	Duration in hrs.		Max. Marks		Total Marks	Minimum Passing Marks		
							External Marks	Internal Ass		Th	Pract	
Core 9 (3T1)	Paper 9: Genetic Engineering & its Applications	4	-	4	4	3	80	20	100	40		
Core 10 (3T2)	Paper 10: Plant Biotechnology	4	-	4	4	3	80	20	100	40		
Core Elective 1 (3T3)	Paper 11: A) Industrial Biotechnology I (3T3A) OR B) Environmental Biotechnology I (3T3B)	4	-	4	4	3	80	20	100	40		
Foundati on Course 1 / Core Subject Centric 1 (3T4)	Paper 12: Introductory Biotechnology (3T4A) / Diagnostic Medical Biotechnology (3T4B)	4	-	4	4	3	80	20	100	40		
Pract. Core 9 & 10 (3P1)	Practical 5: Genetic Engineering & Plant Biotechnology	-	8	8	4	3-8*	100*	-	100		40	
Pract. Core Elective 1 (3P2)	Practical 6: A) Industrial Biotechnology OR B) Environmental Biotechnology	-	8	8	4	3-8*	100*	-	100		40	
Seminar 3 (3S1)	Seminar 3	2	-	2	1			25	25	10		
	TOTAL	18	16	34	25		520	105	625	170	80	

M. Sc. Biotechnology Semester IV											
Code	Theory / Practical	Teaching scheme (Hours / Week)			Credits	Examination Scheme					
		Th	Pract	Total		Duration in hrs.	Max. Marks		Total Marks	Minimum Passing Marks	
							External Marks	Internal Ass		Th	Pract
Core 11 (4T1)	Paper 13: Animal Biotechnology	4	-	4	4	3	80	20	100	40	
Core 12 (4T2)	Paper 14: Biostatistics, Bioinformatics, Ethics & Patenting	4	-	4	4	3	80	20	100	40	
Core Elective 2 (4T3)	Paper 15: A) Industrial Biotechnology II (4T3A) OR B) Environmental Biotechnology II (4T3B)	4	-	4	4	3	80	20	100	40	
Foundation Course 2 / Core Subject Centric 2 (4T4)	Paper 16: Basic rDNA Technology (4T4A)/ Therapeutic Medical Biotechnology (4T4B)	4	-	4	4	3	80	20	100	40	
Pract. Core 11, 12 & Elective 2 (4P1)	Practical 7: Animal Biotechnology, Biostatistics, Bioinformatics, Ethics & Patenting And A) Industrial Biotechnology II OR B) Environmental Biotechnology	-	8	8	4	3-8*	100*	-	100		40
Project (4PROJ1)	Project	-	8	8	4	3-8*	100*	-	100		40
Seminar 4 (4S1)	Seminar 4	2	-	2	1			25	25	10	
	TOTAL	18	16	34	25		520	105	625	170	80

Note: Th = Theory; Pr = Practical/lab, * = If required, for two days.

** = The Practical and Project shall be evaluated by both the External and Internal Examiner in the respective Department / Center / Affiliated College.

SYLLABUS

FOR

CHOICE BASED CREDIT SYSTEM SEMESTER

PATTERN

IN

M.Sc. HOME SCIENCE

HUMAN DEVELOPMENT

RASHTRASANT TUKADOJI MAHARAJ

NAGPUR UNIVERSITY

NAGPUR

MAHARASHTRA

INDIA

M.Sc. Home Science (HUMAN DEVELOPMENT)					
Choice Based Credit System Semester Pattern					
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (M.S.), India					
Paper	Subject Code	Name of Paper	Marks	Credits	
Semester – I					
Paper 1 (Core 1)	1HD-T-1	Programmes for Children and Families	100	25	
Paper 2 (Core 2)	1HD-T-2	Materials and Methods for Working with Young Children	100		
Paper 3 (Core 3)	1HD-T-3	Theories in Human Development-I	100		
Paper 4 (Core 4)	1HD-T-4	Research Methods and Statistics - I	100		
Practical					
Practical Core 1	1HD-P-1	Programmes for Children and Families	100		
Practical Core 2	1HD-P-2	Materials and Methods for Working with Young Children	100		
Seminar	1HD-P-3	Current Trends - I	25		
Semester – II					
Paper 1 (Core 1)	2HD-T-1	Psychological Testing in Human Development	100	25	
Paper 2 (Core 2)	2HD-T-2	Early Childhood Care And Education	100		
Paper 3 (Core 3)	2HD-T-3	Theories in Human Development-II	100		
Paper 4 (Core 4)	2HD-T-4	Research Methods and Statistics - II	100		
Practical					
Practical Core 1	2HD-P-1	Methods of Studying Human Development	100		
Practical Core 2	2HD-P-2	Early Childhood Care and Education	100		
Seminar	2HD-P-3	Current Trends – II	25		
Semester – III					
Paper 1 (Core 1)	3HD-T-1	Advanced Psychological Disorders	100	25	
Paper 2 (Core 2)	3HD-T-2	Special Children	100		
Paper 3 (Elective 1)	3HD-T-3	Care of Children with Disabilities	100		
		OR			
	3HD-T-3	Parenting			
Paper 4 (Foundation I)	3HD-T-4	Foundation I*/ Child and Human Rights	100		
Practical					
Practical Core 1	3HD-P-1	Advanced Psychological Disorders	100		
Practical Core 2	3HD-P-2	Special Children	100		
Research Project	3HD-R-P	Research Project Synopsis	25		
Semester – IV					
Paper 1 (Core 1)	4HD-T-1	Guidance and Counseling	100	25	
Paper 2 (Core 2)	4HD-T-2	Mental Health	100		
Paper 3 (Elective 2)	4HD-T-3	Media in Human Development	100		
		OR			
	4HD-T-3	Curriculum of ECE			
Paper 4(Foundation II)	4HD-T-4	Foundation II*/Care of Elderly	100		
Practical					
Practical Core 1	4HD-P-1	Guidance and Counseling	100		
Research Project	4HD-R-P	Research Project and Viva Voce	100		
Seminar	4HD-S-1	Research Seminar	25		
Total			2500	100	

**HUMAN DEVELOPMENT
SEMESTER – III
RESEARCH PROJECT (SYNOPSIS)**

Internal Assessment: 25

The students should Research and find suitable topics for Research. Topics will be selected under the guidance of department faculty. The students are supposed to prepare a synopsis and submit.

**HUMAN DEVELOPMENT
SEMESTER – IV
RESEARCH PROJECT- (VIVA-VOCE)**

Maximum Marks:100

The students will have to carry out the Research based Project work. The students in consultation with supervisor will finalize the topic of the project work at the beginning of the third semester. Each student is required to carry out Experimental / Field based Project Work related Research Topic of the subject / course. It must be an original work and must submit the Project Report (typed and properly bound) in three copies of semester IV. The Project shall comprise of introduction, review of literature, methodology, results and discussion, summary, conclusion and references.

The Project Work will be evaluated by the examiners.

- a. Internal Assessment : 20 Marks**
- b. External Assessment : 80 Marks**

**POST GRADUATE COURSE
IN HOME SCIENCE
(EXTENSION EDUCATION)**

CBCS

SEMESTER - I
PRACTICAL CORE – 2
COMMUNITY HEALTH
Practical Subject Code : 1 P2

Periods : 8 hours / week	Practical	: 80 Marks
	Internal Assessment	: 20 Marks

Practicals :

1. Practice of preparing and standardizing low cost weaning foods.
2. Preparing low cost supplementary foods.
3. Developing portion rich recipes from locally available food stuff.
4. Developing iron rich recipes from locally available food stuff.
5. Visit to ongoing public health nutrition programmes, day Care Centres.
6. Planning and implementation of Nutrition and Health programme for community.

Internal Assessment (Any Two)

1. Report writing on assessment of nutritional status of balwadi children.
2. Report writing on visit to public health centre.
3. Diet surveys – 24 hour recall, food frequency and weighment of food.

SEMESTER - III
CORE –10
RESEARCH PROJECT DESIGN
Subject Code: 3RP

Marks : 125

Content:

Course work will include:

5. Workshop on research methodology & Statistics
6. Assignment on related topics
7. Pilot Study
8. Documentation & Presentation of Research Project Design

The Research Project (Design) Semester III will be continued as Research Project in Semester IV.

SEMESTER - IV
CORE-13
RESEARCH PROJECT (Viva-Voce)
Subject Code: 4 RP

Marks: 125

Submission of Research Project Report & Open viva-voce.



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

(Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st of August, 1923 & presently a State University governed by Maharashtra Universities Act, 1994)

FACULTY OF HOME SCIENCE

DIRECTION NO. 78 OF 2016

**DIRECTION GOVERNING THE EXAMINATION LEADING TO
THE DEGREE OF M.SC. HOME SCIENCE SEMESTER PATTERN
(CHOICE BASED CREDIT SYSTEM)**

(Issued by the Vice-Chancellor under Section 14(8) of the M.U. Act, 1994)

Whereas, Maharashtra Universities Act, 1994 (hereinafter referred to as Act) has come into force from 22nd July, 1994 was amended from time to time.

AND

Whereas, the University Grants Commission, New Delhi vide letter No.D.O.No.F-1-1/2015 (CM) dated 8th January 2015 regarding reforms pertaining to the introduction of Choice Based Credit System at the earliest from the academic session 2015-16 to provide option to students and also seamless mobility across the institutions.

AND

Whereas, the Board of Studies / Special Task Force in all the Home Science subjects in their meeting held on dated 25.8.2016 prepared the syllabi and scheme of examination for the M.Sc. Home Science course and recommended for starting of the Choice Based Credit System in Faculty of Home Science from the academic session 2016-17,

AND

Whereas, the Faculty Coordinator, Faculty of Home Science in its meeting held on 25-8-2016 vide item No. 1, has considered, accepted and recommended to Academic Council, the policy decision regarding introduction of Choice Based Credit System and the draft syllabi of M.Sc. Home Science Semester I – IV with draft direction and other details.

AND

Whereas, the new draft direction and scheme of semester pattern examination as per Choice based credit system is to be implemented from the Academic Session 2016-17 for M.Sc. Home Science semester I and onwards which is to be regulated by this direction and as such there is no existence and framing of an Ordinance for the above examination is a time consuming process.

AND

Semester-III

Semester-III												M.Sc. Home Science (Extension Education)											
Code	Paper/Code		Theory/ Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme															
				Theory	Practical	Total		Duration (Hrs)	Max. Marks		Total Marks	Min. Passing Marks											
									External Marks	Internal Marks													
Core 9	Paper 9 (3T1)		Non - Formal Education	4	--	4	4	3	80	20	100	50											
Core 10	Paper 10 (3T2)		Diffusion of Innovations	4	--	4	4	3	80	20	100	50											
Elective 1	Paper 11	3T3a OR 3T3b	Programme Planning In Extension OR Rural Development & Extension Services	4	--	4	4	3	80	20	100	50											
Foundation 1* OR Core 11	Paper 12	3T4a OR 3T4b	Foundation 1 OR Human Rights of Women & Children	4	--	4	4	3	80	20	100	50											
Practical Core 9	Practical 5 (3P1)		Non - Formal Education	--	8	8	4	4	80	20	100	50											
Practical Core 10	Practical 6 (3P2)		Diffusion of Innovation	--	8	8	4	4	80	20	100	50											
Research Project (Design)	3RP		Research Project (Design)	--	2	2	1	--	--	25	25	13											
TOTAL				16	18	34	25	--	480	145	625	313											

Note:

1. Minimum Passing marks in each head (Theory [External +Internal], Practical [External +Internal] and Project Design and Research Project) will be 50%.
2. The Research Project (Design) of III Semester will be continued as Research Project in Semester IV.
3. For Semester III & IV from Elective group students will opt for only one paper.
4. List of *Foundation courses is provided by University, out of them students will have to opt for any one subject each for semester III & IV.

OR

Instead of Foundation courses, students can opt the optional core paper from the given scheme during III & IV semester.

Semester-IV		M.Sc. Home Science (Extension Education)									
Code	Paper/Code	Theory/ Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme				
			Theory	Practical	Total		Duration (Hrs)	Max. Marks		Total Marks	Min. Passing Marks
								External Marks	Internal Marks		
Core 12	Paper 13 (4T1)	Distance Education	4	--	4	4	3	80	20	100	50
Core 13	Paper 14 (4T2)	Adoption of Innovations	4	--	4	4	3	80	20	100	50
Elective II	Paper 15	4T3a OR 4T3b	4	--	4	4	3	80	20	100	50
Foundation 2* OR Core 14	Paper 16	4T4a OR 4T4b	4	--	4	4	3	80	20	100	50
Practical Core 12	Practical 5 (4P1)	Distance Education	--	8	8	4	4	80	20	100	50
Research Project	(4RP)	Research Project (Viva - Voce)	--	8	8	4	4	80	20	100	50
Seminar 3	Seminar (4S1)	Research Project Seminar	--	2	2	1	--	--	25	25	13
TOTAL			16	18	34	25	--	480	145	625	313

Note:

1. Minimum Passing marks in each head (Theory [External +Internal], Practical [External +Internal] and Project Design and Research Project) will be 50%.
2. The Research Project (Design) of III Semester will be continued as Research Project in Semester IV.
3. For Semester III & IV from Elective group students will opt for only one paper.
4. List of *Foundation courses is provided by University, out of them students will have to opt for any one subject each for semester III & IV.

OR

Instead of Foundation courses, students can opt the optional core paper from the given scheme during III & IV semester.



**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY NAGPUR
FACULTY OF HOME SCIENCE**

DIRECTION No. 77 of 2016

**DIRECTION GOVERNING THE EXAMINATION LEADING TO
POST GRADUATE DIPLOMA IN FASHION TECHNOLOGY
(SEMESTER PATTERN)**

(Issued under section 14(8) of the Maharashtra University Act 1994)

Whereas the Maharashtra Universities act No. XXXV of 1994 has come into force with effect from 22nd July, 1994 and was amended from time to time.

AND

WHEREAS, the University Grants Commission, New Delhi vide letter No.D.O.No.F-2/2008/(XI Plan), dated 31st 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 Task Force in Textile and clothing in the Faculty of Home Science at its meeting held on 25/08/2016, have recommended for starting of semester pattern and prepared the syllabus and scheme of examination for P.G Diploma in Fashion Technology, commensurate with the governing guidelines.

AND

Whereas the Coordinator, Faculty of Home Science concurred with the recommendations of the Task Force in Textile and Clothing in the Faculty of Home science vide her observations dated 25/08/2016

AND

Whereas, the new draft direction and scheme of examination as per semester pattern is to be implemented from the academic session 2016-2017 for P.G Diploma in Fashion Technology which is to be regulated by this direction and as such there is no existence and framing of an ordinance for the above examination

Appendix-III

SEMESTER-I V P.G. DIPLOMA IN FASHION TECHNOLOGY												
S. No	SUBJECT CODE	Theory/Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme					
			Theory	Practical	Total		Exam Duration	Max Marks		Total Marks	Minimum Passing marks	
								External Marks	Internal Marks		T	P
1	3P1	Internship	---	-		--	-	-	100	100	--	50
2	3P2	Research Project, Research Project viva	6	10	16	11	---	100 50	---	150	--	50 25
3	3S3	Research seminar	---	2	2	1	--	---	50	50	---	25
	Total		6	12	18	12	---	150	150	300		150

Note:

1. Minimum passing marks in each head (Theory [External + Internal] will be 50 %.
2. Separate passing in Practical [External + Internal] and seminar will be 50 %.
3. Four weeks Internship is compulsory



(4)

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DIRECTION NO. 16 OF 2020

**ADMISSION AND EXAMINATIONS LEADING TO THE AWARD OF DEGREE OF
MASTER OF FASHION DESIGN (CHOICE BASED CREDIT SYSTEM)
(SEMESTER PATTERN) DIRECTION 2020.**

Whereas, The Maharashtra Public Universities Act, 2016 (hereinafter 'Act') (VI of 2017) has come into force from 1st March 2017 and the same has been made applicable to Rashtrasant Tukadoji Maharaj Nagpur University (hereinafter "the University");

AND

Whereas, the University has issued Direction No. 15 of 2017 dealing with the composition of the four faculties created by the Act, where under the existing different faculties of the University have been merged into the four new faculties created by the Act, by which the subjects of Fashion Design have been included in the faculty of Science and Technology;

AND

Whereas, the University has issued Direction No. 10 of 2019 prescribing "conditions for conduct of undergraduate and post graduate examinations based on credit based/choice based credit system, in all faculties";

AND

WHEREAS, the Special task committees in various subjects of home science, including in the subject of Fashion Design, in their meetings held on 25th April 2019 considered and accepted the scheme of subjects, syllabi and scheme of examinations of the Master of Fashion Design;

AND

WHEREAS, the Dean of the Faculty of Science and Technology considered and approved the proposal of the Special task committees in various subjects of home science including fashion design, in the Faculty of Science and Technology, and recommended to the Vice-Chancellor to accept the syllabus and the Scheme of examinations for the course of Master of Fashion

APPENDIX I

SEMESTER-I, MASTER OF FASHION DESIGN

SEMESTER-I MASTER OF FASHION DESIGN													
S · N o	SUBJE CT CODE	Theory/Practical	Teaching Scheme (Hrs/week)				Examination Scheme						
			Theory	Practical	Total	Credits	Exam Duration	Max Marks		Total Marks	Minimum Passing marks		
								Theory/Practical, Univ. exam	Internal Marks		Th	Pr	
1	IT-1	Core I – Fashion Illustration	4	--	4	4	3	80	20	100	50	--	
2	IT-2	Core II - Pattern Making	4	--	4	4	3	80	20	100	50	--	
3	IT-3	Core III- Textile Studies	4	--	4	4	3	80	20	100	50	--	
4	IT-4	Core IV - History of Fashion	4	--	4	4	3	80	20	100	50	--	
5	IP-1	Core I Practical - Fashion Illustration	--	8	8	4	6	80	20	100	--	50	
6	IP-2	Core II Practical - Pattern Making	--	8	8	4	6	80	20	100	--	50	
7	IP-3	Fashion communication skills	--	2	2	1	--	--	25	25	--	13	
	Total		16	18	34	25	--	480	145	625	200	113	

Note : 1. Minimum passing marks in each Course, Theory/Practical + internal assessment will be 50%.

2. Minimum passing marks in sessional courses will be 50%.

SEMESTER-I I , MASTER OF FASHION DESIGN

SEMESTER-I I MASTER OF FASHION DESIGN													
S. No	SUBJECT CODE	Theory/Practical	Teaching Scheme (Hrs/week)				Examination Scheme						
			Theory	Practical	Total	Credits	Exam Duration	Max Marks		Total Marks	Minimum Passing marks		
								Theory/Practical, Univ. exam	Internal Marks		T	P	
1	2T-1	Core I – CAD in Fashion	4	--	4	4	3	80	20	100	50	--	
2	2T-2	Core II - Grading	4	--	4	4	3	80	20	100	50	--	
3	2T-3	Core III-Weaving & Knitting Technology	4	--	4	4	3	80	20	100	50	--	
4	2T-4	Core IV –History of World Costume	4	--	4	4	3	80	20	100	50	--	
5	2P-1	Core I Practical - CAD in Fashion	--	8	8	4	6	80	20	100	--	50	
6	2P-2	Core II Practical - Grading	--	8	8	4	6	80	20	100	--	50	
7	2P-3	Makeup & Styling	--	2	2	1	--	--	25	25	--	13	
	Total		16	18	34	25	--	480	145	625	200	113	

Note : 1. Minimum passing marks in each Course, Theory/Practical + internal assessment will be 50%.

2. Minimum passing marks in sessional courses will be 50%.

SEMESTER-III

SEMESTER-III		MASTER OF FASHION DESIGN											
S. No	SUBJECT CODE	Theory/Practical	Teaching Scheme (Hrs/week)				Credits	Examination Scheme					
			Theory	Practical	Total	Exam Duration		Max Marks		Total Marks	Minimum Passing marks		
								Theory/Practical, Univ. exam	Internal Marks		T	P	
1	3T-1	Core I –Garment Production Technology	4	--	4	4	3	80	20	100	50	--	
2	3T-2	Core II - Research Designing & Planning	4	--	4	4	3	80	20	100	50	--	
3	3T-3	Elective I Film & Theater Costume or Elective-II Indian Art application	4	--	4	4	3	80	20	100	50	--	
4	3T-4	Foundation-I ** (refer Appendix -A) or Fashion Retail Marketing	4	--	4	4	3	80	20	100	50	--	
5	3-P-1	Core I Practical-Garment Production Technology	--	8	8	4	6	80	20	100	--	50	
6	3P-2	Craft survey & Documentation	--	6	6	3	--	50	25	75	--	38	
7	3P-3	Elective I or Elective II	--	4	4	2	--	--	50	50	--	25	
	Total		16	18	34	25	--	450	175	625	200	111	

Note : 1. Minimum passing marks in each Course, Theory/Practical + internal assessment will be 50%.

2. Minimum passing marks in sessional courses will be 50%.

** In Semester III, student will have to opt any one foundation subject paper (1 & 2) other than his/her main subject paper for Post Graduation, as per Annexure -1, (List of Foundation

Subjects for Post Graduation). Once student opt foundation subject in Semester –III, it cannot be changed in Semester –IV, in option to the foundation course from the list, student may opt for elective given as option to the foundation course also.

SEMESTER-I V

SEMESTER-I V		MASTER OF FASHION DESIGN										
S · N o	SUBJE CT CODE	Theory/Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme					
			Theory	Practical	Total		Exam Duration	Max Marks		Total Mar ks	Minimum Passing marks	
								Theor y/Prac tical, Univ. exam	Inter nal Mark s		T	P
1	4T-1	Core I - Conceptual Design Development	4	--	4	4	3	80	20	100	50	--
2	4T-2	Core II – Visual Merchandising	4	--	4	4	3	80	20	100	50	--
3	4T-3	Elective I Fashion Accessory Design or Elective II Global Fashion Trend	4	-	4	4	--		50	50		25
4	4T-4	Foundation 2 (Refer Appendix A) or Fashion forecasting	4	--	4	4	3	80	20	100	50	--
5	4P-1	Core I Practical-Conceptual Design Development	--	8	8	4	6	80	20	100	--	50
6	4P-2	Research Project Internship	--	8	8	4	--	80	20 25	100 25	--	50 13
7	4S-1	Fashion show Management	2	--	2	2	--	--	50	50	--	25
-	-	Total	18	16	34	26	--	400	225	625	150	16

Note : 1. Minimum passing marks in each Course, Theory/Practical + internal assessment will be 50%.

2. Minimum passing marks in sessional courses will be 50%.

3. Four weeks Internship is compulsory in semester IV.

APPENDIX – II

A. Project Work Scheme, Guidelines for the Students, Supervisors and Examiners

Every student is required to carry out **Project Work** (semester IV) on a related research topic of the subject /course. It must be an original 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 Examination of Semester IV. The project report shall comprise of Introduction, Review of literature and Methodology, Results ,Discussion, Summary, Conclusions 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 Experimental project work shall be from the following.

A person selected by the duly constituted selection committee in the relevant subject and approved by the University, exclusively for P. G. Course.

OR

A person selected by the duly constituted selection committee of the University approved by the University and appointed as a full time regular teacher with Masters Degree at U. G. Level in the relevant subject and having at least 10 years teaching experience.

OR

A person selected by the duly constituted selection committee of the University approved by the University and appointed as a full time regular teacher with Ph. D. Degree at U. G. Level in the relevant subject and having at least 5 years teaching experience.

B. General Rules and Regulations

Pattern of Question Paper

1. There will be four units in each paper.
2. Question paper will consist of five questions.
3. Four questions will be from four units.
4. Fifth question will be from each of the four units having equal weightage.
5. Maximum marks of each paper will be 100 i.e. Theory paper 80 Marks and Internal assessment 20 Marks.
6. Each paper will be of 3 hours duration.

MCT 1 –T1 **MASTER OF COSMETIC TECHNOLOGY Semester I**
FORMULATION AND DEVELOPMENT – I (FD I)

Max. Marks –	100
Paper -	80
Sessional -	20

- I. Consideration of physical and chemical problems inherent in the formulation and development of cosmetic preparations.
- a) Physical properties :- Physical forms, practical size, solubility, wetting of solids and flow, cohesiveness and organolaptic properties.
 - b) Chemical properties and stability of ingredients and additives.
- II. Formulation Additives :
- Antioxidants and preservatives, perfumes, colouring and diluting agents, emulsifying and suspending agents, basic materials for creams/ointment bases, solvents and miscellaneous additives.
- III. Pilot Plant scale up Techniques: General considerations. Review of formula, Raw materials, equipments etc. Process evaluation, Preparation of Master Manufacturing process.
- IV. Establishing pilot plant, studies, scale-up the manufacture of product to intermediate and large scale production.
- Requirements & Methods for maintenance of sterile area.

RECOMMENDED BOOKS :

1. Cosmetic Science and Technology Vol. I, II, III by Sagarin
2. Harry's Cosmeticology
3. Industrial Pharmacy by Leon Lachman
4. Perfume:History & chemistre By D.D.Wasule
5. New Cosmetic Science
6. Indian Herbs by Chopra
7. Wealth of India, published by CSIR

MASTER OF COSMETIC TECHNOLOGY SEMESTER IV

MCT 4 –P1

PROJECT AND VIVA-VOCE

Max. Marks – 300

Main-- 250

Sessional - 50

Every student for the degree of Master of Cosmetic Technology shall be required to undertake project work involving methodical research and submit three copies of the report of the project work, duly certified by the supervisor / Guide to the Head of the Department.

MASTER OF COSMETIC TECHNOLOGY SEMESTER IV

MCT 4-P 2

SEMINAR / REVIEW

Max. Marks – 50

Sessional-- 50

Internal Assessment marks should be allotted on the basis of at least three seminar/reviews during Project work.

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SYLLABUS

FOR

MASTER OF HOSPITALITY MANAGEMENT

RASHTRASANT TUKADOJI MAHARAJ NAGPUR

UNIVERSITY, NAGPUR (M.S.)

20 - 20

INDIA

Semester –III for Master of Hospitality Management

Paper Code	Subject	Teaching Scheme (Hrs/Week)			Credits	Examination Scheme				
		Theory	Practical	Total		duration	Max. Marks		Total	Minimum Passing Marks
							External Marks	Internal Marks		
MHM 3-T-1	Core I Materials Management	4	-	4	4	3	80	20	100	50
MHM 3-T-2	Core II Tourism Destination India	4	-	4	4	3	80	20	100	50
MHM 3-T-3	Elective I Food & Beverage Management -I OR Elective 2 Accommodation Management-I	4	-	4	4	3	80	20	100	50
MHM 3-T-4	Foundation -I Project Design and Planning	4	-	4	4	3	80	20	100	50
MHM 3-P-1	Practical Elective -I Food & Beverage Management -I OR Elective - II Accommodation Management -I	-	8	8	4	3	80	20	100	50
MHM 3-P-2	Elective - I Tourism Destination India OR Elective - II Foreign Language (French/Germen)	-	8	8	4	3	80	20	100	50
MHM 3-P-3	Seminar Industrial Training ** (Foundation)	-	6	6	3	--	--	25	25	12
Total		16	14	38	27		480	145	625	312

**Training in recognized hotel and resort; travel agency should be done for 6 weeks. Log book to be maintained during the training and submitted for evaluation. Certificate of training to be submitted. On completion of training presentation is compulsory to be evaluated by External and Internal Examiners.

Semester -IV for Masters in Hospitality Management

Paper Code	Subject	Teaching Scheme (Hrs/Week)			Credits	Examination Scheme				
		Theory	Practical	Total		Duration	Max. Passing Marks		Total	Minimum Passing Marks
							External Marks	Internal Marks		
MHM 4-T-1	Core I Quality Management & Assurance	4	-	4	4	3	80	20	100	50
MHM 4-T-2	Core II Food Tourism	4	-	4	4	3	80	20	100	50
MHM 4-T-3	Elective I Food & Beverage Management -II OR Elective II Accommodation Management-II	4	-	4	4	3	80	20	100	50
MHM 4-T-4	Foundation I Strategic Management	4	-	4	4	3	80	20	100	50
MHM 4-P-1	Practical Core I Elective I Food & Beverage Management -II OR Elective II Accommodation Management-II	-	8	8	4	3	80	20	100	50
MHM 4-P-2	Project Work & Viva / Voce	--	4	4	2	2	80	20	100	50
MHM 4-P-3	Seminar	-	4	4	2		--	25	25	12
Total		16	16	32	24	17	480	145	625	312

Note:-

1. In each semester student will have to give seminar on any topic relevant to the syllabus encompassing the recent trends and development in that field. 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.