

**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR
FACULTY OF HOME SCIENCE
DIRECTION NO.8 OF 2013**

**DIRECTION RELATING TO THE EXAMINATION LEADING TO THE DEGREE OF
HOME SCIENCE (MASTER OF HOME SCIENCE) (CREDIT BASED SEMESTER
PATTERN**

(FACULTY OF HOME SCIENCE)

(Issued under Section 14(8) of the Maharashtra Universities 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-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 Board of Studies in all the Home Science subjects in their meeting held during **18 February, 2012** prepared the syllabi and scheme of examination for the M.Sc. degree course and recommended for starting of the credit based semester pattern in Faculty of Home Science from the academic session 2012-13.

AND

WHEREAS, the Dean, Faculty of Home Science has consented to the syllabi and the scheme of examination for the award of M.Sc. degree in Home Science.

AND

Whereas, ordinance making is a time consuming process, therefore, I, Dr. V.S. Sapkal, Vice Chancellor Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur in exercise of powers vested under Section 14(8) of the Act do hereby issue the following Direction.

1. This Direction may be called "Direction relating to examinations leading to the Degree of – Master of Home Science in the Faculty of Home Science (Credit Based Semester Pattern).
2. The direction shall come into force from the date of its issue by Hon'ble Vice Chancellor and shall remain in force till the relevant ordinance comes into being in accordance with the provisions of the Act.

3. The duration of the M.Sc. course shall be of two academic years consisting of four semester with University examinations at the end of each semester namely:
 - a. Home Science [M.Sc. Semester I Exam]
 - b. Home Science [M.Sc. Semester II Exam]
 - c. Home Science [M.Sc. Semester III Exam]
 - d. Home Science [M.Sc. Semester IV Exam]
4. The examination shall be held at such places and dates which are notified by the University.

ELIGIBILITY TO THE COURSE:

5. Subject to their compliance with the provisions of this direction and of other ordinances in force from time to time, the following applicant candidates shall be eligible for the admission to _____ Master of Home science and examinations their of

- A. a) For _____ () [M.Sc. (**Food and Nutrition**)Semester-I]

For admission to the M.Sc. Semester I in Food and Nutrition a candidate shall have B.Sc. (Home Science), B.Sc. with Postgraduate Diploma in Dietetics, M.B.B.S, B.Sc. with Nutrition of the university or of any other statutory university recognized equivalent thereto.

- b) For _____ () [M.Sc. (**Resource Management**) Semester-I]

For Admission to the M.Sc. Semester I in Resource Management, a candidate shall have offered B.Sc. (Home Science), M.A. (Home Economics) of the university or of any other statutory university recognized equivalent thereto.

- c) For _____ () [M.Sc. (**Human Development**) Semester –I]

For admission to the M.Sc. Semester I in Human Development, a candidate shall have B.Sc. (Home Science), M. A. (Home Economics), M.S.W., M.B.B.S., M.A. (Psychology) of the university or of any other statutory university recognized equivalent thereto.

- d) For _____ () [M.Sc. (**Textile and Clothing**)Semester-I]

For admission to the M.Sc. Semester I in Textile and Clothing, B.Sc. (Home Science), Bachelor of Fashion Design, Bachelor of Textile Design of the university, B.Sc. in fashion Technology from Annamalai University or of any other statutory university recognized equivalent thereto.

e) For _____ () [M.Sc. (Home Science Extension)Semester-I]

For Admission to the M.Sc. Semester I in Extension Education, a candidate shall have offered B.Sc.(Home science), M.A. (Home Economics), B.S.W., B.V.Sc., B.A.(Rural Services), Postgraduate diploma in Mass Communications. B.Sc. (Agriculture) of the university or of any other statutory university recognized equivalent thereto.

Candidates shall have passed any one of the above examinations from Rashtrasant Tukadoji Maharaj Nagpur University or any other statutory University of India or abroad, recognized by the UGC or any other concerned apex regulatory apex regulatory authority/ body of India.

6) a) Home Science M.Sc. **Semester-I** Examination

Students who have fulfilled the eligibility criteria as mentioned in Section 5 and have been admitted to this course in Semester I.

b) Home Science M.Sc. **Semester-II** Examination

Students who have been admitted to this course in semester -II.

c) Home Science M.Sc. **Semester-III** Examination

Students who have been admitted to this course in semester III.

d) Home Science M.Sc. **Semester-IV** Examination

I. Students who have been admitted to this course in semester IV.

II. Every student shall submit three copies of the project report (typed and properly bound) for the Fourth Semester to the University at least one month prior to the commencement of the final practical examination through the Head of the Department/ Centre/the Principal of the college concerned along with the certificate signed by the supervisor and declaration by the candidate towards original work which is not submitted to any university or organization for award of the degree. The scheme / guidelines for the students and supervisors regarding Project Work Report are given in Appendix -B.

(**Note** : Subject to the Rules of ATKT as mentioned in para 8 of this direction)

7) a) _____[M.Sc. (Food Science and Nutrition/ Resource management / Human Development Textile and Clothing/Home Science Extension) Semester I Examination

Students who have fulfilled the eligibility criteria as mentioned in Section 5 and have been admitted to this course in Semester I.

b) _____ [M.Sc. Food Science and Nutrition/ Resource management / Human Development Textile and Clothing/Home Science Extension] Semester II Examination
Students who have been admitted to this course in semester II.

c) _____[M.Sc. Food Science and Nutrition/ Resource management / Human Development Textile and Clothing/Home Science Extension] Semester III Examination
Students who have been admitted to this course in semester III.

d) _____[M.Sc. Food Science and Nutrition/ Resource management / Human Development Textile and Clothing/Home Science Extension] Semester IV Examination

Students who have been admitted to this course in semester IV.

- 8) A) The ATKT rules for admission for the Home Science M.Sc. Course (Theory and Practical as separate passing head) shall be given in the following table.

Admission to semester	Candidate should have passed in all the subjects of the following examination of R.T. M Nagpur University	Candidate should have passed at least two third of the passing heads of the following examinations
Semester I	As provided in the para 5 & 6 of the direction	-----
Semester II	-----	-----
Semester III	-----	Semester I and II taken together
Semester IV	-----	Semester I, II and III taken together

- 9) ***Without prejudice to other provisions of Ordinance no. 6 relating to the examination in general, provisions of para 5,8,9,10,26,31 and 32 of the said ordinance shall apply to every student admitted to this course.***
- 10) The fess for the tuition, examination, laboratory and other fees shall be as prescribed by the university from time to time.
- 11) (a) The scope of the subjects shall be as prescribed in the syllabus.
(b) The medium of instruction and examination shall be English,however the answer books can be written in English/Hindi/Marathi.
- 12) The number of papers and maximum marks assigned to each paper and minimum marks/grade, as examinee must obtain in order to pass the examination shall be as prescribed in **appendix 1, 2,3,4 and 5** appended with this direction.
- 13) The examinee at each of the examination shall have option of not being declared successful at the examination in case he/she does not secure a minimum of grade equivalent to 40% marks at the examination. This option will have to be exercise every time the application is submitted to any of the examinations. Once this option is exercised, the option shall be binding on the examinee and it shall not be evoked in under any circumstances.
- 14) The classification of the examinee successful at the semester and examinations and at the end of final semester examination shall be as per the rules and regulations of credit based semester pattern as prescribed in appendix, appended with this direction.
- 15) **The provisions of direction no. 3 of 2007 for the award of grace marks of passing an examination, securing higher grade in subject(s) as updated from time to time shall apply to the examination under this direction.**

- 16) The names of the successful examinee passing the examination as a whole in the minimum prescribed period and obtaining prescribed number of places securing the grades equivalent to first and second division shall be arranged in order of merit as provided in ordinance 6 relating to examination in general.
- 17) No candidate shall be admitted to an examination under this direction, if he/she has already passed the same examination of this university or of any other university.
- 18) Examinee successful at the final examination shall on payment of the prescribed fees, will be entitled for the award of the degree in the prescribed form signed by the Vice Chancellor.
- 19) This course is based on credit based semester pattern and therefore, it will be also regulated by guidelines and regulation given in appendices which are part of this direction.
- 20) With the issuance of this Direction, the Direction No. 16 of 2012 shall stand repealed.

Nagpur
Dated

Sd/-
Dr. V.S. Sapkal
Vice-Chancellor

Appendix-1
(Food Science and Nutrition)

Scheme of teaching and examination under credit based semester pattern for
M.Sc. (Food Science and Nutrition) Programme
Semester-I

SN	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Credi ts	Examination Scheme					
			Th	Pr	Tota l		Dur atio n (Hrs)	Max. Marks		Tota l Mar k	Min. Pass Marks	
								Exter nal Mark s	Interna l Marks		T	P
1	1FNT-1	Advanced Nutritional Biochemistry-I	4		4	4	3	80	20	100	40	-
2	1FNT-2	Advanced Food Science -I	4		4	4	3	80	20	100	40	-
3	1FNT-3	Institutional Food Administration- I	4		4	4	3	80	20	100	40	-
4	1RMST -4	Research Methods & Statistics-I	4		4	4	3	80	20	100	40	-
5	1FNP-1	Advanced Nutritional Biochemistry-I	--	8	8	4	3	80	20	100	-	40
6	1FNP-2	Advanced Food Science -I	--	8	8	4	3	80	20	100	-	40
7	1FNS-3	Current Trends and issues in FSN	2		2	1	---	--	25	25	10	-
		Total	18	16	34	25		480	145	625	170	80

Semester-II

S N	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme					
			Th	Pr	Tot al		Duration (Hrs)	Max. Marks		Total Mark	Min. Pass Mark	
								Extern al Marks	Intern al Marks		T	P
1	2FNT-1	Advanced Nutritional Biochemistry-II	4	-	4	4	3	80	20	100	40	-
2	2FNT-2	Advanced Food Science -II	4	-	4	4	3	80	20	100	40	-
3	2FNT-3	Institutional Food Administration-II	4	-	4	4	3	80	20	100	40	-
4	2 RMST -4	Research Methods & Statistics-II	4	-	4	4	3	80	20	100	40	-
5	2FNP-1	Advanced Nutritional Biochemistry-II	--	8	8	4	3	80	20	100	-	40
6	2FNP-2	Advanced Food Science -II	--	8	8	4	3	80	20	100	-	40
7	2FNS-3	Current Trends and Issues in FSN	2	-	2	1	---	--	25	25	10	-
		Total	18	16	34	25		480	145	625	170	80

Note :

1. Minimum passing marks in each head (Theory [External +Internal], Practical [External + Internal] and Seminar,) will be 40 %
2. 1RMST-4 & 2RMST-4 is common for all specializations of Home Science.
3. Four weeks internship in Food Industry is compulsory after Semester II.

Semester-III

S N	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme					
			Th	Pr	Total		Duration (Hrs)	Max. Marks		Total Mark s	Min. Pass Mark	
								External Marks	Internal Marks		T	P
1	3FNT-1	Clinical & Therapeutic Nutrition-I	4		4	4	3	80	20	100	40	-
2	3FNT-2	Advanced Nutrition -I	4		4	4	3	80	20	100	40	-
3	3FNT-3	Community Nutrition & Public Health-I	4		4	4	3	80	20	100	40	-
4	3FNP-1	Clinical & Therapeutic Nutrition-I	--	8	8	4	3	80	20	100	-	40
5	3FNS-1	Advanced Nutrition -I	--	4	4	2	---	-	50	50	-	20
6	3FNS-2	Community Nutrition & Public Health-I	--	4	4	2	---	-	50	50	-	20
7	3FNPD-1	Project Design	5	--	5	5	.	.	125	125	50	-
		Total	17	16	33	25		320	305	625	170	80

Semester-IV

S N	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Cre dits	Examination Scheme					
			Th	Pr	Total		Duratio n (Hrs)	Max. Marks		Total Mark s	Min Pass Mark	
								Externa l Marks	Intern al Marks		T	P
1	4FNT-1	Clinical & Therapeutic Nutrition-II	4		4	4	3	80	20	100	40	-
2	4FNT-2	Advanced Nutrition –II	4		4	4	3	80	20	100	40	-
3	4FNT-3	Community Nutrition & Public Health-II	4		4	4	3	80	20	100	40	-
4	4FNP-1	Clinical & Therapeutic Nutrition-II	--	8	8	4	---	80	20	100	-	40
5	4FNS-1	Advanced Nutrition -II	-	4	4	2	---	--	50	50	-	20
6	4FNS-2	Community Nutrition & Public Health-II	-	4	4	2	---	--	50	50	-	20
7	4FNRP-1	Research Project (Viva- voce)	5	-	5	5	3	125		125	50	-
		Total	17	16	33	25		445	180	625	170	80

Note :

1. Minimum passing marks in each head (Theory [External +Internal], Practical [External + Internal] Sessional and Project Design and Research Project) will be 40%
2. SIX weeks internship in Hospitals with Food Service under a registered dietitian is compulsory after the IV Semester.

Appendix-2 (RESOURCE MANAGEMENT)

Scheme of Teaching & Examination under Semester Pattern credit based semester pattern for M.Sc
(Resource Management) Programme

Semester – I for M.Sc Programme in Resource Management											
Sr. No	Code/ Paper	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		
1	IRMT-1	Theory of Management – I	4	-	4	4	3	80	20	100	40%
2	IRMT-2	Housing & Interiors - I	4	-	4	4	3	80	20	100	
3	IRMT-3	Hospitality Administration & Services – I	4	-	4	4	3	80	20	100	
4	IRMS-4	Research Methods & Statistics – I	4	-	4	4	3	80	20	100	
5	IRMP-1	Theory of Management – I	-	8	8	4	3	80	20	100	
6	IRMP-2	Housing & Interiors – I	-	8	8	4	3	80	20	100	
7	IRMP-3	Current Trends & Issues in Resource Management	2	-	2	1	-	-	25	25	
Total			18	16	34	25		480	145	625	

Semester – II for M.Sc Programme in Resource Management											
Sr. No	Code/ Paper	Theory/ Practical	Teaching Scheme (Hrs/Week)			Credits	Examination Scheme				
			Theory	Practical	Total		Duration	Max. Marks		Total Marks	Min. Passing Marks
								External marks	Internal Marks		
1	2RMT- 1	Theory of Management – II	4	-	4	4	3	80	20	100	40%
2	2RMT- 2	Housing & Interiors – II	4	-	4	4	3	80	20	100	
3	2RMT- 3	Hospitality Administration & Services – II	4	-	4	4	3	80	20	100	
4	2RMS- 4	Research Methods & Statistics – II	4	-	4	4	3	80	20	100	
5	2RMP- 1	Theory of Management – II	-	8	8	4	3	80	20	100	
6	2RMP- 2	Housing & Interiors – II	-	8	8	4	3	80	20	100	
7	2RMP- 3	Current Trends & Issues in Resource Management	2	-	2	1	-	-	25	25	
Total			18	16	34	25		480	145	625	

NOTE: -

- 1) Every Examiner to be successful at the examination shall be required to obtain not less than 40 % of the maximum marks prescribed to each theory paper.
- 2) Aggregate passing marks should be 40 % in practical and Theory
- 3) Paper IV is common for all specializations of Home Science
- 4) Four weeks internship is compulsory after IInd Semester in interior decorator/architect gallery.

Semester – III for M.Sc Programme in Resource Management											
Sr. No	Code/ Paper	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		
1	3RMT- 1	Ergonomics – I	4	-	4	4	3	80	20	100	40%
2	3RMT- 2	Entrepreneurship Management – I	4	-	4	4	3	80	20	100	
3	3RMT- 3	Residential Interior Space and Design and Landscaping -I	4	-	4	4	3	80	20	100	
4	3RMP- 1	Ergonomics – I	-	8-	8	4	3	80	20	100	
5	3RMS- 1	Entrepreneurship Management – I	-	4	4	2	-	-	50	50	
6	3RMS- 2	Residential Interior Space and Design and Landscaping -I	-	4	4	2	-	-	50	50	
7	3RMPD- 1	Project Design	5	-	5	5	-	-	125	125	
Total			17	16	33	25		320	305	625	

Semester-VI

S N	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme				Min. Pass Marks
			Th	Pr	Total		Duration (Hrs)	Max. Marks		Total Mark	
								External Marks	Interna l Marks		
1	4RMT-1	Ergonomics – II	4	-	4	4	3	80	20	100	40%
2	4RMT-2	Entrepreneurship Management – II	4	-	4	4	3	80	20	100	
3	4RMT-3	Residential Interior Space and Design and Landscaping -II	4	-	4	4	3	80	20	100	
4	4RMP--1	Ergonomics – II	-	8	8	4	-	80	20	100	
5	4RMS-1	Entrepreneurship Management – II	--	4	4	2	-	-	50	50	
6	4RMS-2	Residential Interior Space and Design and Landscaping -II	--	4	4	2	-	-	50	50	
7	4RMPD- 1	Research Project	5	-	5	5	3	125	-	125	
		Total	17	16	33	25		445	180	625	

NOTE: -

- 1) Every Examiner to be successful at the examination shall be required to obtain not less than 40 % of the maximum marks prescribed to each theory paper
- 2) Aggregate passing marks should be 40 % in practical and Theory
- 3) Six weeks internship is compulsory after IVth Semester in front office and Housekeeping Department of any Hotel related Enterprises-

Appendix-3 (HUMAN DEVELOPMENT)

Scheme of teaching and examination under credit based semester pattern for
M.Sc. (Human Development) Programme

Semester-I

S N	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme					
			Th	Pr	Tot al		Duration (Hrs)	Max. Marks		Total Mark	Min. Pass Marks	
								External Marks	Interna l Marks		T	P
1	1HDT-1	Management of programmes for children and families -1	4		4	4	3	80	20	100	40	-
2	1HDT-2	Early childhood care and education-1	4		4	4	3	80	20	100	40	-
3	1HDT-3	History and theory of Human Development -1	4		4	4	3	80	20	100	40	-
4	1RMST-4	Research Methods & Statistics-I	4		4	4	3	80	20	100	40	-
5	1HDP-1	Management of programmes for children and families-1	--	8	8	4	3	80	20	100	-	40
6	1HDP-2	Early childhood care and education-1	--	8	8	4	3	80	20	100	-	40
7	1HDP-3	Current Trends and issues in Human Development	2		2	1	---	--	25	25	10	-
		Total	18	16	34	25		480	145	625	170	80

Scheme of teaching and examination under credit based semester pattern for
M.Sc. (Human Development) Programme
Semester-II

S N	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Cre dits	Examination Scheme					
			Th	Pr	To tal		Durat ion (Hrs)	Max. Marks		Tot al Mar k	Min. Pass Mark	
								Exter nal Mark s	Internal Marks		T	P
1	2HDT- 1	Method of studying Human Development-II	4		4	4	3	80	20	100	40	-
2	2HDT- 2	Parenting in Early Childhood- II	4		4	4	3	80	20	100	40	-
3	2HDT- 3	Study of Family in Society-II	4		4	4	3	80	20	100	40	-
4	2RMS T-4	Research Methods & Statistics-II	4		4	4	3	80	20	100	40	-
5	2HDP- 1	Method of studying Human Development-II	--	8	8	4	3	80	20	100	-	40
6	2HDP- 2	Parenting in Early Childhood- II	--	8	8	4	3	80	20	100	-	40
7	2HDP- 3	Current Trends and issues in Human Development-II	2		2	1	---	--	25	25	10	-
		Total	18	16	34	25		480	145	625	170	80

Note :

1. Minimum passing marks in each head(Theory [External +Internal], Practical [External + Internal] and Seminar) will be 40% .
2. 1RMST-4 & 2RMST-4 is common for all specializations of Home Science.
3. Four weeks internship in Balwadi/Nursery/Anganwadi/Creche/Kinder Garden/Day Care Centre/Montessori after II Semester

Scheme of teaching and examination under credit based semester pattern for
M.Sc. (Human Development) Programme
Semester-III

S N	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Cre dits	Examination Scheme					
			Th	Pr	To tal		Durat ion (Hrs)	Max. Marks		Tota l Mar ks	Min. Pass Mark	
								Exte rnal Mar ks	Inter nal Mar ks		T	P
1	3HDT-1	Disorder of childhood and Adolescent -1	4		4	4	3	80	20	100	40	-
2	3HDT-2	Care of Children with Disabilities and Illness-1	4		4	4	3	80	20	100	40	-
3	3HDT-3	Child and Human Right-1	4		4	4	3	80	20	100	40	-
4	3HDP-1	Disorder of childhood and Adolescent -1	--	8	8	4	3	80	20	100	-	40
5	3HD-S1	Care of Children with Disabilities and Illness-1	--	4	4	2	---	-	50	50	-	20
6	3HD-S- 2	Child and Human Right-1	--	4	4	2	---	-	50	50	-	20
7	3HDPD- 1	Project Design	5	--	5	5	.	.	125	125	50	-
		Total	17	16	33	25		320	305	625	170	80

Scheme of teaching and examination under credit based semester pattern for
M.Sc. (**Human Development**) Programme
Semester-IV

S N	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Credi ts	Examination Scheme					
			Th	Pr	Total		Duration (Hrs)	Max. Marks		Total Marks	Min Pass Mark	
								External Marks	Internal Marks		T	P
1	4HDT-1	Development of Creativity -II	4		4	4	3	80	20	100	40	-
2	4HDT-2	Guidance and Counselling-II	4		4	4	3	80	20	100	40	-
3	4HDT-3	Psychotherapies and skill training-II	4		4	4	3	80	20	100	40	-
4	4HDP-1	Development of Creativity -II	--	8	8	4	---	80	20	100	-	40
5	4HD-S1	Guidance and Counselling-II	-	4	4	2	---	--	50	50	-	20
6	4HD-S2	Psychotherapies and skill training-II	-	4	4	2	---	--	50	50	-	20
7	4HDRP-1	Research Project (Viva-voce)	5	-	5	5	3	125		125	50	-
		Total	17	16	33	25	-	445	180	625	170	80

Note :

1. Minimum passing marks in each head(Theory[External+Internal],Practical[External+Internal]Sessional and Project Design and Research Project) will be 40%
2. SIX weeks internship is compulsory under psychologist/ psychotherapist after the IV Semester.

Appendix-4 (TEXTILES AND CLOTHING)
Scheme of teaching and examination under credit based semester pattern for
M.Sc. (Textiles and Clothing) Programme

Semester-I

S.No	Subject Code	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme					
			Th	Pr.	Total		Duration (Hrs)	Max. Marks		Total Marks	Min. Passing Marks	
								External Marks	Internal Marks		T	P
1	1TCT-1	Textile testing & quality Control-Paper-I	4		4	4	3	80	20	100	40	-
2	1TCT-2	Advance Pattern making & construction Techniques Paper-II	4		4	4	3	80	20	100	40	-
3	1TCT-3	Textile Science Paper-III	4		4	4	3	80	20	100	40	-
4	1RMST-4	Research Methods and Statistics-I. Paper-IV	4		4	4	3	80	20	100	40	-
5	1TCP-1	Textile testing & quality Control Practical I	--	8	8	4	3	80	20	100	-	40
6	1TCP-2	Advance Pattern marking & construction Techniques Practical II	--	8	8	4	3	80	20	100	-	40
7	1TCP-3	Current Trends and issue in textile and Clothing*	2		2	1	---	--	25	25	10	-
		Total	18	16	34	25		480	145	625	170	80

Scheme of teaching and examination under credit based semester pattern for
M.Sc. (Textiles and Clothing) Programme

Semester-II

S.No	Subject Code	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme					
			Th	Pr.	Total		Duration (Hrs)	Max. Marks		Total Marks	Min. Passing Marks	
								External Marks	Internal Marks		T	P
1	2TCT-1	Advance Draping Paper-I	4		4	4	3	80	20	100	40	-
2	2TCT-2	Advance Textile Designing paper-II	4		4	4	3	80	20	100	40	-
3	2TCT-3	Sociological and Psychological Aspects of Clothing and Historic Costume , Paper-III	4		4	4	3	80	20	100	40	-
4	2RMST- 4	Research Methods and Statistics –II, Paper-IV	4		4	4	3	80	20	100	40	-
5	2TCP-1	Advance Draping Practical I	--	8	8	4	3	80	20	100	-	40
6	2TCP-2	Advance Textile Designing Practical II	--	8	8	4	3	80	20	100	-	40
7	2TCP-3	Current Trends and issue in textile and Clothing*	2		2	1	---	--	25	25	10	-
		Total	18	16	34	25		480	145	625	170	80

Note :

1. Minimum passing marks in each head
(Theory[External+Internal],Practical[External+Internal]and Seminar) will be 40%
2. 1RMST-4 & 2RMST-4 is common for all specializations of Home Science.
3. Four weeks internship in Fashion Designing export houses or Boutique is compulsory after Semester-II.

Scheme of teaching and examination under credit based semester pattern for
M.Sc. (Textiles and Clothing) Programme

Semester-III

Sr. No	Subject Code	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme					
			Th	Pr.	Total		Duration (Hrs)	Max. Marks		Total Marks	Min. Passing Marks	
								External Marks	Internal Marks		T	P
1	3TCT-1	Fashion Designing, Paper-I	4		4	4	3	80	20	100	40	-
2	3TCT-2	Programme Design and Evaluation in Textile Clothing, Paper-I	4		4	4	3	80	20	100	40	-
3	3TCP-1	Textile Chemistry, Paper-I	4		4	4	3	80	20	100	40	-
4	3TC-P1	Fashion Designing-I	--	8	8	4	3	80	20	100	-	40
5	3TCS-1	Programme Design and Evaluation in Textile Clothing, Paper I	--	4	4	2	---	-	50	50	-	20
6	3TCS-2	Textile Chemistry, Paper -I	--	4	4	2	---	-	50	50	-	20
7	3TCPD-1	Project Design	5	--	5	5	.	.	125	125	50	-
		Total	17	16	33	25		320	305	625	170	80

Scheme of teaching and examination under credit based semester pattern for
M.Sc. (Textiles and Clothing) Programme

Semester-IV

S.No	Subject Code	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme					
			Th	Pr.	Total		Duration (Hrs)	Max. Marks		Total Marks	Min. Passing Marks	
								External Marks	Internal Marks		T	P
1	4TCT-1	Entrepreneurship Development in Textile and Clothing, -II	4		4	4	3	80	20	100	40	-
2	4TCT-2	Indian Textile Industry, -II	4		4	4	3	80	20	100	40	-
3	4TCT-3	Apparel Merchandising, -II	4		4	4	3	80	20	100	40	-
4	4TCP-1	Entrepreneurship Development in Textile and Clothing -II	--	8	8	4	---	80	20	100	-	40
5	4TCS-1	Indian Textile Industry -II		4	4	2	---	--	50	50	-	20
6	4TCS-2	Apparel Merchandising -II		4	4	2	3	--	50	50	-	20
7	4TCPR-1	Research project (viva-voce)	5	--	5	5	-	125	-	125	50	-
		Total	17	16	33	25		445	180	625	170	80

Note :

1. Minimum passing marks in each head(Theory[External+Internal],Practical[External+Internal]Sessional and Project Design and Research Project) will be 40%
2. SIX weeks internship in any Textile Industry/garment manufacturing company.

Appendix-5 (HOME SCIENCE EXTENSION)
Scheme of teaching and examination under credit based semester pattern for
M.Sc. (Home Science Extension) Programme

Semester-I

SN	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme					
			Th	Pr	Total		Duration (Hrs)	Max. Marks		Total Mark	Min. Pass Marks	
								External Marks	Internal Marks		T	P
1	1EXTT-1	Communication Technology-1	4	-	4	4	3	80	20	100	40	-
2	1EXTT-2	Community Health & Development-I	4	-	4	4	3	80	20	100	40	-
3	1EXTT-3	Socio-Economic Environment-I	4	-	4	4	3	80	20	100	40	-
4	1RMST-4	Research Methods & Statistics -I	4		4	4	3	80	20	100	40	-
5	1EXTP-1	Communication Technology-I	--	8	8	4	3	80	20	100	-	40
6	1EXTP-2	Community Health & Development-I	--	8	8	4	3	80	20	100	-	40
7	1EXTP-3	Current Trends & Issues in Home Science Extension	2	-	2	1	---	--	25	25	10	-
		Total	18	16	34	25		480	145	625	170	80

Semester-II

S N	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Cre dits	Examination Scheme					
			Th	Pr	Total		Duration (Hrs)	Max. Marks		Tota l Mar k	Min. Pass Mark	
								Extern al Marks	Internal Marks		T	P
1	2EXTT-1	Communication Technology-II	4		4	4	3	80	20	100	40	-
2	2EXTT-2	Community Health & Development-II	4		4	4	3	80	20	100	40	-
3	2EXTT-3	Socio-Economic Environment-II	4		4	4	3	80	20	100	40	-
4	2RMST-4	Research Methods & Statistics -II	4		4	4	3	80	20	100	40	-
5	2EXTP-1	Communication Technology-II	--	8	8	4	3	80	20	100	-	40
6	2EXTP-2	Community Health & Development-II	--	8	8	4	3	80	20	100	-	40
7	2EXTP-3	Current Trends & Issues in Home Sci. Extension	2		2	1	---	--	25	25	10	-
		Total	18	16	34	25	-	480	145	625	170	80

Note :

1. Minimum passing marks in each head(Theory[External+Internal],Practical[External+Internal]Sessional and Seminar) will be 40%
2. IRMST-4 & 2RMST-4 is common for all specializations of Home Science.
3. Four weeks internship /Participation in field training in community health/ welfare programme is compulsory after II semester.

Semester-III

SN	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Cred its	Examination Scheme					
			Th	Pr	Tot al		Durati on (Hrs)	Max. Marks		Total Marks	Min. Pass Mark	
								Extern al Marks	Intern al Mark s		T	P
1	3EXTT-1	Non- formal Education-I	4	-	4	4	3	80	20	100	40	-
2	3EXTT-2	Adoption of Innovation-I	4	-	4	4	3	80	20	100	40	-
3	3EXTT-3	Programme Building & Extension-I	4	-	4	4	3	80	20	100	40	-
4	3EXTP-I	Non- formal Education-I	--	8	8	4	3	80	20	100	-	40
5	3EXTS-1	Adoption of Innovation-I	--	4	4	2	---	-	50	50	-	20
6	3EXTS-2	Programme Building & Extension-I	--	4	4	2	---	-	50	50	-	20
7	3EXTPD- 1	Project Design	5	--	5	5	.	.	125	125	50	-
		Total	17	16	33	25		320	305	625	170	80

Semester-IV

S N	Code/ Paper	Theory Paper/ Practical	Teaching Scheme (Hrs/week)			Credits	Examination Scheme					
			Th	Pr	Total		Duration (Hrs)	Max. Marks		Total Marks	Min Pass Mark	
								External Marks	Internal Marks		T	P
1	4EXTT-1	Non –formal Education-II	4		4	4	3	80	20	100	40	-
2	4EXTT-2	Adoption of Innovation-II	4		4	4	3	80	20	100	40	-
3	4EXTT-3	Programme Building & Extension-II	4		4	4	3	80	20	100	40	-
4	4EXTP-I	Non –formal Education-II	--	8	8	4	---	80	20	100	-	40
5	4EXTS-1	Adoption of Innovation-II	-	4	4	2	---	--	50	50	-	20
6	4EXTS-2	Programme Building & Extension-II	-	4	4	2	---	--	50	50	-	20
7	4EXTRP-1	Research Project (Viva- voce)	5	-	5	5	3	-	125	125	50	-
		Total	17	16	33	25	-	320	305	625	170	80

Note :

1. Minimum passing marks in each head(Theory[External+ Internal], Practical[External+ internal], Sessional and Project Design and Research Project) will be 40 %
2. SIX weeks internship in NGO (Non government organization)/ government /semi government).

Appendix A

Master of Home Science (Textile and Clothing/Home Science Extension/ Human Development/
Resource management/ Food Science and Nutrition)

Two year (Four Semesters) Degree Course

RASHTRASANT TUKDOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

POST GRADUATE

HOME SCIENCE SYLLABUS

CREDIT –GRADE BASED PERFORMANCE AND ASSESSMENT SYSTEM (CGPA)

Features of the Credit System

With effect from Academic Session 2012-2013

FEATURES OF THE CREDIT SYSTEM

- Master's degree in Home Science would be of 100 credits.
- Four credit course of theory will be of four clock hours per week running for 15 weeks
- One credit course of practical will be of two clock hours of laboratory exercise for 7.5 weeks
- Four credit course of practical will be of 8 clock hours of laboratory exercise for 15 weeks

EVERY STUDENT SHALL COMPLETE 100 CREDITS IN A MINIMUM OF FOUR SEMESTERS.

4 SEMESTERS X 25 CREDITS = 100 CREDITS

SCHEME OF SYLLABUS AND CREDIT SYSTEM (Appendix 1 to 5)

1. Each theory paper is supposed to cover minimum 60 clock hours (15 clock hours per unit) of teaching and 240 clock hours per semester for all the four theory papers in the first two semesters and 180 clock hours per semester for all the three papers in the third and fourth semesters.
2. One credit course of theory will be of one clock hour per week of 25 marks running for 15 weeks and four credit course of theory will be of four clock hours per week of 100 marks running for 15 weeks.
3. One credit course of practical will consist of two clock hours of laboratory exercise of 25 marks running for 15 weeks and four credit course of practical will consist of eight hours of laboratory exercise of 100 marks running for 15 weeks.
4. **Scheme For First And Second Semester :**

THEORY: First two semesters include total 4 Theory classes. First three papers would be of respective specializations of Home-Science and 4th Theory Paper would be common to all specializations. All 4 Theory papers would be of 4 credits each in first two semesters.

PRACTICALS: There shall be two Practical's consisting of 100 marks (4 credits each) in first and second semester.

SEMINAR: Apart from Theory and Practical's, in first two semesters, student's will have to give seminar on any topic relevant to the syllabus encompassing the current /recent trends and development in that field. The topic of the seminar will be decided at the beginning of the semester in consultation with the supervising teacher. 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.

INTERNSHIP : After the completion of the second semester, the student shall be required to undertake internship of 4 weeks duration in Food Industry as an compulsory assignment.

5. **Scheme For Third And Fourth Semester :**

THEORY: Third and Fourth semesters include total 3 Theory classes. First three papers would be of respective specializations of Home-Science. All 3 Theory papers would be of 4 credits each.

PRACTICALS: There shall be only 1 Practical of Paper I consisting of 100 marks (4 credits) in third and fourth semester.

SESSIONALS : Paper II and Paper III in Semester III & IV shall have Sessional Marks consisting of 2 credits each. The students shall submit the sessional work as per the specialization and paper wise syllabus framed.

PROJECT DESIGN AND RESEARCH PROJECT : As per the Instructions given in APPENDIX B, student have to design the project and complete the research project and complete the research project.

INTERNSHIP : After the completion of the fourth semester, the student of food science and nutrition shall be required to undertake internship of 6 weeks duration in Hospitals with Food Service under a Registered Dietitian as an compulsory assignment.

6. INTERNAL ASSESSMENT [20 MARKS]

1. CLASS TEST / SUBMISSIONS– 15 MARKS

2. ATTENDANCE -5 MARKS

100 To 96% - 5

95% To 91% - 4

90% To 86% - 3

85% To 81% - 4

80 To 75% - 5

Below 75 - 0

Note:- 0.5 difference should be rounded off to next digit

7. General Instructions

1. Syllabus to be implemented with effect from academic session 2012-13.
2. The syllabus shall have Four units in each paper.
3. The students shall be required to participate in Educational/ Industrial tour / visit at least once during PG course.

A) Pattern of question paper

1. Four units in each paper.
2. One question on each unit.
3. Fifth question on all units
4. Maximum marks of each paper 80
5. Project shall be evaluated by internal and external examiners. 50% marks of the project shall be allotted for Viva taken by external and internal examiners.
6. Duration of question paper is 3 hours

B) Absorption scheme:

1. While switch over to semester system, failure students of annual pattern will be given three chances to clear the examination.
2. The candidates who have cleared first year annual pattern examination in the subject shall get admission to third semester directly by matchable scheme. However, candidates who are allowed to keep the term will not be eligible for admission to third semester unless they clear all the papers and practicals of first year annual pattern examination.
3. The unsuccessful students of old course shall be permitted to appear for higher class as per the new course examination of the post graduate programme (semester, credit and grade system) provided that they submit a certificate from the head of the department / Principal of the college stating that they have satisfactorily undergone a course of the study in all the subjects of the new course as per the absorption scheme of a particular post graduate programme.
4. The absorption scheme of the post graduate programme will be effective till the introduction of new syllabus with new absorption scheme.
5. To get the admission in the third semester students should clear first semester including theory as well as practicals.

C) Grade point Average (GPA) and Course Grade Point Average (CGPA)

1. On clearing a paper, based on the cumulative score (Out of 100) in that paper, a student will be given Grade point Average (GPA) (Maximum of 10 and minimum of 4) for that paper on the following basis:

Sr. No	Score (Out of 100)	Grade	Grade Point Average (Out of 10)
1	100 to 75	O: Outstanding	10
2	74 to 65	A: Very Good	09
3	64 to 55	B: Good	08
4	54 to 50	C: Average	07
5	49 to 45	D: Satisfactory	06
6	44 to 40	E:Pass	05
7	Below 40	F: Fail.	00 or Fail

The description for each of the grades are as follows:

Grade Proposed Norms

O: Outstanding: Excellent analysis of the topic,(75% and above)

Accurate knowledge of the primary material, wide range of reading, logical development of ideas, originality in approaching the subject, neat and systematic organization of content, elegant and lucid style;

A: Very Good : Excellent analysis of the topic ,(65 to 75% and above)

Accurate knowledge of the primary material, acquaintance with seminal publications, logical development of ideas, neat and systematic organization of content, effective and clear expression;

B: Good: Good analysis of the topic ,(55 to 64%)

C: Average: Some important points covered ,(50 to 54%)

Basic knowledge of the primary material, logical development of ideas, neat and systematic organization of content, good language and expression;

D: Satisfactory: Some important points discussed ,(45 to 49%)

Basic knowledge of the primary material, some organization, acceptable language or expression;

E: Pass: Any two of the above(40 to 44%)

F: Fail: None of the above (Below 40 %)

2. On clearing all the papers in a semester, a student will be allotted a **Semester Grade Point Average, (SGPA)** for that particular semester. As the pattern given above does not have differential weights for papers, **SGPA** of students for a particular semester will be the average of the GPA's for all the papers.
3. A student will be allotted a **Cumulative Grade Point Average (CGPA)** after clearing all the four semesters. Again as there is no differential weight system for semesters, the CGPA of students will be the average of the four SGPA's of that student.

Conversion of CGPA into Grade shall be follows:

Sr. No	CGPA	Grade	Equivalent Class/ Division
1	9.01 to 10.00	O	First Class (Outstanding)
2	8.00 to 8.99	A	First Class(Excellent)
3	7.00 to 7.99	B	First Class with Distinction
4	6.00 to 6.99	C	First Class
5	5.00 to 5.99	D	Second Class
7	4.00 to 4.99	E	Second Class
8	Below 4.00	F	Fail

- a) A student failed to score minimum 40% marks in each head of passing and in aggregate shall be given F grade.
 - b) Students with F grade in a course would be granted credit for that course but not the grade for that course.
 - c) Grade points earned in each paper shall be calculated as Grade points obtained x credits for the paper.
 - d) The formula for GPA will be based on the weighted average. The GPA will not be printed unless a student passes courses equivalent to minimum 100 credits.
4. While declaring the result, the existing relevant ordinance is applicable. For verification and revaluation existing rules will be applicable.
 5. The candidate may take all the examinations as per the provision of ATKT simultaneously but his result of final semester shall not be declared unless he/she is declared successful at lower examination.
 6. If the examinee failed to pass the post graduate programme within five successive years (for four semester degree) from the date of his/ her first admission to particular post graduate 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.
 7. The computation of semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) of an examinee shall be given below:
 - a) The marks will be given in all the examinations which will include the college assessment marks and the total marks for each theory/shall be converted into grades as per above table. SGPA shall be calculated based on the Grade Points corresponding to grade as given in above

table and the credits allotted to respective theory /practical shown in the scheme for respective semester.

- b) SGPA shall be computed for every semester and CGPA shall be computed openly in IV semester. The CGPA of IV semester shall be calculated based on SGPA of all four semesters.

$$SGPA = \frac{C_1 \times G_1 + C_2 \times G_2 + \dots + C_n \times G_n}{C_1 + C_2 + \dots + C_n}$$

Where C_1 = Credit of Individual theory/ practical

G_1 + Corresponding grade point obtained in the respective theory/practical

$$CGPA = \frac{(SGPA)_1 \times (Cr)_1 + (SGPA)_2 \times (Cr)_2 + \dots + (SGPA)_n \times (Cr)_n}{(Cr)_1 + (Cr)_2 + \dots + (Cr)_n}$$

$(SGPA)_1$ = SGPA of semester-I; $(Cr)_I$ = Total Credit for Semester-I

$(SGPA)_2$ = SGPA of semester-II; $(Cr)_{II}$ = Total Credit for Semester-II

$(SGPA)_3$ = SGPA of semester-II; $(Cr)_{II}$ = Total Credit for Semester- II

$(SGPA)_4$ = SGPA of semester-IV; $(Cr)_{IV}$ = Total Credit for Semester-VI

Final marks will only show the grade, points and not the marks, CGPA equal to 6.75 and above shall be considered as equivalent to class which shall be mentioned on grade card of IVth semester as food note.

APPENDIX –B

MASTER OF HOME SCIENCE (Food Science and Nutrition / Human Development/ Resource management/
Textile and Clothing/Home Science Extension/)
TWO YEAR (FOUR SEMESTERS) DEGREE COURSE

PROJECT WORK

SCHEME / GUIDELINES FOR THE STUDENTS, SUPERVISORS & EXAMINERS:

The Project work will carry total 125 marks in semester III and IV. Every student is required to carry out Experimental/ Field based Project works on related research topic of the subject / course. It must be an original work and must submit the project Report (typed and properly bound) in two copies at least one month prior to commencement of the final practical / lab examination of semester IV. The project report shall comprise of introduction, review of literature material and methods, 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 degree and certificate by the supervisor and forwarded through Head/ Course – Coordinator/ Director of the department / centre or the Principal of the college.

The Project Work will be evaluated by the examiners.

The supervisors for the 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 at U.G. level in the relevant subject and having at least 15 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 at U.G. level having M. Phil degree with 10 years teaching experience at UG level, or a person who has Ph.D. Degree, with 5 years teaching experience in relevant subject.

OR

Scientists of National Laboratories/ Regional Research Laboratories who are approved by dint of their appointments in such facilities by the Union Government / the State Government / Nagpur University / Other Universities recognized by UGC with at least in the Grade Pay of Rs.8000/-.

Students will be assigned the topic for Project Work by their respective supervisors. Topics of Project Work of students shall be forwarded to Controller of Examination for an appointment of external Examiners. Project Work shall be evaluated by both external and internal examiner in the respective Department /Center / Affiliated Colleges.

The examiner will evaluate the Project Work taking into account the following considerations:

- 1] Coverage of subject matter
- 2] Arrangement & Presentation
- 3] References

General Instructions/ Directions

1. Syllabus to be implemented with effect from academic session 2012-13.
2. Question paper shall have five questions with equal marks / credits.
3. There will be four long questions one question from each unit. Long questions can be subdivided into two short questions.
4. The questions shall comprise of four very short questions, one question of each unit.
5. There shall be internal choice from each unit.
6. Practical examination shall be of minimum 3hours durations.
7. There shall be at least one major and two minor experiments in the practical examination.
8. The students shall be required to participate in educational/ Industrial tour one during PG course.