



GONDWANA UNIVERSITY, GADCHIROLI.

DIRECTION NO. 26 OF 2017.

EXAMINATIONS LEADING TO THE DEGREE OF BACHELOR OF HOME SCIENCE (B.SC.) (SIX SEMESTER DEGREE COURSE) BASED ON CHOICE BASED CREDIT SYSTEM IN THE FACULTY OF SCIENCE AND TECHNOLOGY DIRECTION, 2017.

(Issued under Provision of Section 12(8) of the Maharashtra Public Universities Act, 2016.)

Whereas, The Maharashtra Public Universities Act, 2016 has come into force with effect from 1st March 2017(Maharashtra Act No. VI of 2017) (hereinafter referred to as the Act);

AND

Whereas, the above mentioned Act is applicable to the Gondwana University, Gadchiroli from 1st March, 2017;

AND

Whereas, the chairman, U.G.C. New Delhi has directed the Vice-Chancellor of the university to initiate steps for successful implementation of the choice based credit system(CBCS) from the Academic Session 2015-16 vide letter D.O.No.F-1-1/2015(CM) dated 8/01/2015 ;

AND

Whereas, the U.G.C. has formulated and issued guidelines on adoption of choice based credit system in all the universities;

AND

Whereas, the vice-chancellor has directed, on the basis of the resolution of the authorities of the university, to formulate and introduce choice based credit system at U.G. and P.G. level programme in all the faculties in the university;

AND

Whereas, the matter to introduce choice based credit system is required to be regulated by an ordinance to be made in this behalf;

AND

Whereas, no Ordinance is in existence in the university for introducing choice based credit system in the faculty of Science and Technology;

AND

Whereas, making of an Ordinance for introducing choice based credit system in the faculty of Science and Technology is a time consuming process;

AND

Whereas, the choice based credit system is to be introduced at the Bachelor of Home Science Degree level in the faculty of Science and Technology from the Academic year 2017-18.

Now, therefore, I, Dr. N.V. Kalyankar, Vice-chancellor, Gondwana University, Gadchiroli in exercise of the powers vested in me under provision of section 12(8) of the Maharashtra Public Universities Act, 2016 do hereby issue following Directions:-

1. This Direction shall be called “Examinations leading to the Degree of Bachelor of Home Science (B.SC.) (Six semester Degree Course) based on Choice based credit system in the faculty of Science and Technology, Direction, 2017.”
2. This Direction shall come into force with effect from the Academic year 2017-18 for Ist and IInd semester of the Bachelor degree course and onwards i.e. Bachelor of Home Science Degree.
3. (i) The following shall be the examinations leading to the Degree of Bachelor of Home Science in the faculty of Science & Technology.
 - (1) (गृहविज्ञान) Bachelor of Home Science Part I, semester I and II examinations.
 - (2) (गृहविज्ञान) Bachelor of Home Science Part II, semester III and IV examinations. and
 - (3) (गृहविज्ञान) Bachelor of Home Science Part III, semester V and VI examinations.
- (ii) The Duration of the program: The duration of undergraduate (U.G.) program in the faculty of Science & Technology Bachelor of Home Science (B.Sc. Home Sc.) shall be of three academic years consisting of six semesters.
 - a) **Admission and Eligibility criteria:** Subject to his compliance with the provisions of this direction and of other ordinances in force from time to time, an applicant for admission to semester I of Bachelor of Home Science, have passed XII standard examination of MS Board of Secondary and Higher Secondary education or any other examination recognized as equivalent thereto under the following discipline - Science/Home Science/Arts/commerce/MCVC.
4. (1) **In the case of (Bachelor of Home Science Part-II, Sem. III & IV) Examinations:** - have passed, not less than one academic year previously, the Bachelor of Home Science Part-I (Sem. -I & II) Examinations of the University or an examination recognized as equivalent thereto, and

- (2) **In the case of (Bachelor of Home Science Final, Sem. V & VI) Examinations:-** have passed, not less than one academic year previously, the Bachelor of Home Science Part-II (Sem. III & IV) Examinations of the University or an examination recognized as equivalent thereto:

5. Norms of A.T.K.T:-

The admission to the program shall be subjected to ATKT rules as given below:

For admission to Semester	Candidates should have passed in all subjects of the following examination	Candidates should have satisfactorily completed the term work and appeared for at least one paper of the following exam.	Candidates should have passed at least 40% subjects of
Sem. I	XII th class or equivalent	-----	-----
Sem. II	----	I st Semester	-----
Sem. III	----	-----	Semester I & II separately (two subjects from each)
Sem. IV	----	III rd Semester	-----
Sem. V	Semester I & II	-----	Semester III & IV separately (one subject from each)
Sem. VI	----	V th Semester	-----

- 6.** There shall be total six semester, in U.G. level Bachelor of Home Science program. Each semester shall comprise 90 (Ninety) actual teaching days.
- 7.** Home Science program shall comprise of 5 core subjects i.e- Food Science and Nutrition, Human Development, Textiles and Clothing, Resource Management and Home Science Extension, whereas allied subjects shall comprise of Basic and Applied Chemistry, Applied Physiology, Household, Biology, Health Science, Nutritional Biochemistry and Computer Basics and applications. There shall be no theory paper for the subjects related to Computer (Basic Computer / Application) & Skill base Course & Project.
- 8.** English is compulsory for 1st Sem and 2nd Sem only.
- 9.** All theory papers shall be divided into four units.
- 10.** The scope and limitations of the subjects of all semester opted by the students shall be indicated in the respective syllabi. The medium of instructions and examinations shall be English, / Marathi / Hindi except for the course in language (English)
- 11.** The fees for the tuition, examinations, Laboratory and other fees shall be as prescribed by the University from time to time. The theory question paper will follow similar pattern for maximum subjects with inter unit choice and equal weightage to all questions. Duration of each theory paper shall be three hours. There will be five questions each of 8 marks. Fifth question will be based on entire syllabus. All questions are compulsory with internal choice. Questions may be subdivided into sub questions.

12. All theory examinations shall be conducted by Gondwana University Gadchiroli at the end of each Semester.
13. Practical examination for all semesters shall be conducted once in a year, at the end of 2nd, 4th and 6th semester, by Gondwana University, Gadchiroli. At every odd semester i.e. 1st, 3rd and 5th semester there shall be internal assessment for the practicals completed, record of which should be put before the external examiner at the time of university practical examination.
Project : Every student is required to vary out project work (Sem-VI) on a related research topic of the subject / Course. It must be on original work. On the basis of this work student must submit the project report (typed & properly bound) atleast 15 days prior to commencement of the final practical examination of Sem-VI.
14. Duration of practical examinations shall be 3 hrs, for one or two day, depending upon subject and number of students
15. Practical batch shall be of 16 students.
16. Marks should be allotted according to the marking scheme.
17. The number of papers, practicals, teaching hours, the maximum marks allotted and minimum marks which an examinee must obtain in order to pass the examination, all details are shown in **Appendices A & B** appended to this Direction.
18. The scheme of absorption and matching shall be as per **appendix C** appended with this Direction.
19. Notwithstanding anything to the contrary of this direction no candidates shall be admitted to Bachelor of Home Science I, (semester I and II), Bachelor of Home Science II- (Sem-III and IV) and Bachelor of Home Science final (semester V and VI) examinations under this direction, if she has already passed the corresponding or an equivalent examination of any other statutory University.
20. As soon as possible after the examinations the Board of Examination and evaluation shall publish a list of successful examinees at the Bachelor of Home Science Sem-I & II; Bachelor of Home Science Sem-III & IV and Bachelor of Home Science Sem-V & VI Examinations. The result of all examinations shall be classified on the basis of semester Grade point Average 'SGPA' evaluated as specified in the adopted model Credit-Grade system (Appendix **D**).
21. The examinees who have secured pass grade in all subjects prescribed for all the examinations shall be eligible for the award of Degree of Bachelor of Home Science . The classification of division of examinees for the award of Degree of Bachelor of Home Science shall be on the basis of Cumulative Grade Point Average 'CGPA' evaluated by accounting SGPA of V and VI semester as demonstrated in the Appendix **D** appended with this Direction.
22. Successful Examinees at the final examination, on payment of the prescribed fees, will be entitled for the award of the degree in the prescribed form signed by the Vice Chancellor.

23. Absorption scheme to switch over from yearly to semester pattern

(From other University to Gondwana University)

- a) The candidates who have cleared first year annual pattern examination in the subject shall get admission to third semester directly by match able scheme. However, candidates who are allowed to keep term will not be eligible for admission to third semester unless they clear all the papers and practicals of first year annual pattern examination.
- b) For Admission to 5th semester, student should clear second year annual pattern examination in all subjects.

(Dr. N. V. Kalyankar) Gadchiroli.

Date :- 29/07/2017.

**Sd/-
Vice Chancellor**

Gondwana University
Bachelor of Home Science
TEACHING / MARKING SCHEME
Three Years / Six Semesters Degree Course

SEMESTER – I :

Paper No.	Subjects	Examination Scheme Max. Marks				Examination scheme Max. Marks		Credit		Course Duration of Exam	
		Th.	IA	I Pract	Total	Th+ IA	IA (P)	Th.	P.	Th.	P.
1	Fundamentals of Food Science and Nutrition	60	15	25	100	30	10	03	01	3 Hrs.	
2	Fundamentals of Human Development	60	15	25	100	30	10	03	01	3 Hrs.	
3	Fundamentals of Textiles and Clothing	60	15	25	100	30	10	03	01	3 Hrs.	
4	Fundamentals of Family Resource Management	60	15	25	100	30	10	03	01	3 Hrs.	
5	English & Communication Skills	40	10	-	50	20	-	02	-	3 Hrs.	
6	Basic Computer	-	-	50	50	-	20	-	02	-	-
Total		280	70	150	500			14	06		

Separate Passing for Theory and Practical

Combined passing 40% –Theory +Internal Assessment (IA) taken together

40%- Practical + Internal Assessment (IA) taken together

Practical examination of Semester I and Semester II taken together at the end of Semester II

Gondwana University
Bachelor of Home Science
TEACHING / MARKING SCHEME
Three Years / Six Semesters Degree Course

SEMESTER – II :

Paper No.	Subjects	Examination Scheme Max. Marks				Examination scheme Max. Marks		Credit		Course Duration of Exam	
		Th.	IA	U Prac.	Total	Th+ IA	IA (P)	Th.	P.	Th.	P.
1	Basic Food Science & Nutrition	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
2	Infant Stimulation And Toddlerhood	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
3	Fabric Study	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
4	Fundamentals of Home Science Extension	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
5	English & Communication Skill	40	10	-	50	20	-	02	-	3 Hrs.	-
6	Basic Computer	-	-	50	50	-	20	-	02	-	3 Hrs.
Total		280	70	150	500			14	06		

Separate Passing for Theory and Practical

Combined passing 40% –Theory +Internal Assessment (IA) taken together

40%- Practical + Internal Assessment (IA) taken together

Practical examination of Semester I and Semester II taken together at the end of Semester II

U.Prac. – University Practical Exam

Gondwana University
Bachelor of Home Science
TEACHING / MARKING SCHEME
Three Years / Six Semesters Degree Course

SEMESTER – III :

Paper No.	Subjects	Examination Scheme Max. Marks				Examination scheme Max. Marks		Credit		Course Duration of Exam	
		Th.	IA	I Prac.	Total	Th+ IA	IA (P)	Th.	P.	Th.	P.
1	Meal Management	60	15	25	100	30	10	03	01	3 Hrs.	-
2	Early Childhood Development & Education	60	15	25	100	30	10	03	01	3 Hrs.	-
3	Textile Design	60	15	25	100	30	10	03	01	3 Hrs.	-
4	i) Extension Learning OR ii) Housing & Home Furnishing } Any one	60	15	25	100	30	10	03	01	3 Hrs.	-
5	i) Applied Physiology OR ii) Basic Chemistry } Any one	60	15	25	100	30	10	03	01	3 Hrs.	-
6	Apparel Construction (Skill base)	-	-	50	50	-	20	-	02	-	-
Total		300	75	175	550			15	07		

Separate Passing for Theory and Practical

Combined passing 40% –Theory +Internal Assessment (IA) taken together

40%- Practical + Internal Assessment (IA) taken together

Practical examination of Semester III taken together at the end of Semester IV

Gondwana University
Bachelor of Home Science
TEACHING / MARKING SCHEME
Three Years / Six Semesters Degree Course

SEMESTER – IV :

Paper No.	Subjects	Examination Scheme Max. Marks				Examination scheme Max. Marks		Credit		Course Duration of Exam	
		Th.	IA	U Prac.	Total	Th+ IA	IA (P)	Th.	P.	Th.	P.
1	Community Nutrition	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
2	Late Childhood & Adolescence	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
3	Dyeing & Printing	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
4	iii) Extension Edu. (Rural Sociology) OR iv) Housing & Home Furnishing } Any one	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
5	i) Basic Chemistry OR ii) Applied Physiology } Any one	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
6	Apparel Construction (Skill base)	-	-	50	50	-	20	-	02	-	3 Hrs.
Total		300	75	175	550			15	07		

Separate Passing for Theory and Practical

Combined passing 40% –Theory +Internal Assessment (IA) taken together

40%- Practical + Internal Assessment (IA) taken together

Practical examination of Semester III taken together at the end of Semester IV

U.Prac. – University Practical Exam

Gondwana University
Bachelor of Home Science
TEACHING / MARKING SCHEME
Three Years / Six Semesters Degree Course

SEMESTER – V :

Paper No.	Subjects	Examination Scheme Max. Marks				Examination scheme Max. Marks		Credit		Course Duration of Exam	
		Th.	IA	IP	Total	Th+ IA	IA (P)	Th.	P.	Th.	P.
1	Diet Therapy	60	15	25	100	30	10	03	01	3 Hrs.	
2	Dynamics of Marriage & Family	60	15	25	100	30	10	03	01	3 Hrs.	
3	Apparel Pattern Design	60	15	25	100	30	10	03	01	3 Hrs.	
4	v) Extension Programme Planning vi) Advance Resource Management } Any One	60	15	25	100	30	10	03	01	3 Hrs.	
5	vii) Health Science OR viii) Applied Chemistry OR ix) Nutritional Biochemistry } Any One	60	15	25	100	30	10	03	01	3 Hrs.	
6	Project	-	-	50	50	-	20	-	02	-	-
Total		300	75	175	550			15	07		

Separate Passing for Theory and Practical

Combined passing 40% –Theory +Internal Assessment (IA) taken together

40%- Practical + Internal Assessment (IA) taken together

Practical examination of Semester V taken together at the end of Semester VI

Gondwana University
Bachelor of Home Science
TEACHING / MARKING SCHEME
Three Years / Six Semesters Degree Course

SEMESTER – VI :

Paper No.	Subjects	Examination Scheme Max. Marks				Examination scheme Max. Marks		Credit		Course Duration of Exam	
		Th.	IA	U.Pra.	Total	Th+ IA	IA (P)	Th.	P.	Th.	P.
1	Nutritional & Dietetics	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
2	Developmental Assessment	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
3	Fashion Design	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
4	i) Extension Training Management ii) Advance Resource Management } Any One	60	15	25	100	30	10	03	01	3 Hrs.	3 Hrs.
5	i) Household Biology OR ii) Applied Chemistry OR iii) Nutritional Biochemistry } Any One	60	15	-	100	20	10	03	01	3 Hrs.	3 Hrs.
6	Project	-	-	50	50	-	20	-	02	-	3 Hrs.
Total		300	75	175	550			15	07		

Separate Passing for Theory and Practical

Combined passing 40% –Theory +Internal Assessment (IA) taken together

40%- Practical + Internal Assessment (IA) taken together

Practical examination of Semester V taken together at the end of Semester VI

U.Prac. – University Practical Exam

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 Practical's 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.
- The pattern of question papers shall be as follows :
 1. Four units in each paper
 2. One question on each unit (including sub questions)
 3. Fifth question on all units
 4. Maximum marks of each theory paper shall be as provided in Appendix A-I to A-VI of this Direction.

III. Practicals

- i) Practical exam shall be of 3 hours duration.
- ii) The Practical Record/ Laboratory Manual of every student shall carry a certificate as shown below, duly signed by the teacher-in-charge and the Head of the Department.
- iii) If the student fails to submit her certified Practical Record/ Laboratory manual duly signed by the Teacher-in-Charge and the Head of the Department, she shall not be allowed to appear for the Practical Examination and no Marks shall be allotted to the student.
- iv) The certificate template shall be as follows:

C E R T I F I C A T E

Name of the College / Institution _____

Name of the Department: _____

This is to certify that this Practical Record/ Laboratory Manual contains the bonafide record of the Practical work of Kumari / Shrimati _____ of _____ Semester _____ during the academic year _ _ _ _ _ . The candidate has satisfactorily completed the experiments prescribed by RashtrasantTukdojiMaharaj Nagpur University for the subject _____

Dated :

Signature of the teacher who taught the examinee

1. _____

2. _____

Head of the Department

Appendix: C

Absorption / Matching Scheme

- a) While switching over to CBCS pattern, the failure students of CBC will be given total five (three plus two) chances to clear each examination.
- b) After availing five chances for clearing the examination as per Semester, no examination would be held for Semester Pattern candidates.
- c) The candidates who have cleared first Semester and IInd Semester from CBS pattern examination shall get admission to third semester directly. However, candidates who are allowed to keep term will not be eligible for admission to third semester unless they clear all the papers and practicals.
- d) The candidates who have cleared second Semester & III Semester (CBS) examination in the subject shall get admission to fifth semester directly. However, candidates who are allowed to keep term will not be eligible for admission to fifth semester unless they clear all the papers and practicals of IIIrd & IV Semester (CBS).
- e) For other statutory university candidates with similar yearly pattern programme, shall be applicable.
- f) The guidelines of awarding internal marks / practical marks/ theory marks/ mark list (if any and if required) shall be as per guideline given in the **Appendix-B**.
- g) For other statutory university candidate with semester pattern B.Sc. (Home Science) programme- the candidate shall be admitted to the next higher semester provided that candidate shall have cleared previous semester and Gondwana University committee constituted from time to time for the purpose shall be scrutinised and clear the case on the basis of subject and syllabus contents of her previous semester examination of the other statutory university.
- h) Those student who fail to clear the examination within the available chances (three + two) would be bound by this absorption/matching scheme and would be required to take fresh admission in the CBCS semester pattern course.

Guidelines

1. Students unable to clear Semester (CBS) pattern in five chances in Sem I, III and V can take admission in corresponding semester pattern course.
2. As per the requirement and if necessary, while switching over from CBS Pattern to CBCS semester pattern course, the university shall issue semester pattern course mark list in proportion of marks obtained in the CBS Pattern.
3. As soon as the candidate enters in the CBS semester pattern course from the CBS Pattern as per the given absorption / matching scheme and successfully complete the semester pattern course, the university shall award revised mark list as per the semester pattern course for particular semester.
4. In case of any difference in minimum passing marks in the CBS Pattern and in the CBS semester pattern course, the university shall convert marks proportionately for issuance of mark list in the semester pattern course.
5. During switching over from CBS Pattern to CBCS pattern, the candidate shall be awarded proportionate marks by the university.

Appendix: D

1. Credit, Grade, SGPA & CGPA

B.Sc. Home Science Program shall consist of six semesters, wherein the student has to complete certain number of credits. Each Subject (Paper, Practicals, Project and Seminar) has some fixed number of credits. The types of subject subheads are: Core, Core Practical, Discipline Specific Elective, Discipline Specific Elective Practical's, Skill Enhancement course, Ability Enhancement Course and Elective course.

a) Credits and Grade:

It is a unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work / field work per week. **There will be 1 credit for 16-20 hours for Theory papers and Practical to be spent by the student per course in one semester.**

Depending on the marks scored in a subject, student is given a Grade. Each grade has got certain grade points as follows:

Marks Obtained	Letter Grade	Grade Point
91-100	O (Outstanding)	10
81-90	A+ (Excellent)	09
71-80	A (Very Good)	08
55-70	B+ (Good)	07
51-54	B (Satisfactory)	06
41-50	C (Average)	05
= 40	P (Pass)	04
<40	F (Fail)	0
Ab	Ab (Absent)	0

Table 1: Letter grade and Grade Point based on Marks Scored

A student obtaining Grades F and Ab shall be considered failed and will be required to reappear for the examination.

b) Computation of SGPA and CGPA

Following is the procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

i. The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.

$$\text{SGPA (Si)} = \frac{\sum(C_i \times G_i)}{\sum C_i}$$

Where C_i is the number of credits of the i^{th} course and G_i is the grade point scored by the student in the i^{th} course. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a program, i.e.

$$\text{CGPA} = \frac{\sum (C_i \times S_i)}{\sum C_i}$$

Where S_i is the SGPA of the i^{th} semester and C_i is the total number of credits in that semester.