

# **GONDWANA UNIVERSITY GADCHIROLI**

**Faculty of Home Science**

## **DIRECTION NO. 148 OF 2012**

### **DIRECTION GOVERNING THE EXAMINATION LEADING TO THE DEGREE OF गृहविज्ञान स्नातक BACHELOR OF HOME SCIENCE - SEMESTER PATTERN WITH CREDIT GRADE SYSTEM**

**WHEREAS**, the University Grants commission, New Delhi vide D.O. No. F-2.2008.(XI Plan), dated 31 January 2008 regarding new initiatives under the XI plan- Academic reforms in the University has suggested for improving quality of higher education and to initiate the academic reform at the earliest,

**AND**

**WHEREAS**, the Board of studies in the faculty of Homescience in their meeting held during 25.07.12 prepared the syllabi and scheme of examination for Bachelor of Homescience, Under Graduate Degree course and recommended for introducing the Credit Grade semester pattern in faculty of Home science from the academic session 2012-13,

**AND**

**WHEREAS** the recommendations of Ad-hoc Board of Studies in the Faculty of Home Science regarding framing of various syllabi and introduction and implementation of Semester Pattern Examination System at under graduate level was considered in its meeting held on 03.08.12 and approved the recommendation of board of studies regarding the syllabi and the scheme of examination passed by the respective board of studies for the award of गृहविज्ञान स्नातक Bachelor of Home Science degree in the Faculty of Homescience.

**AND**

**WHEREAS**, new scheme of examination as per semester pattern is to be implemented from the Academic Session 2012-13 for Semester-I & onwards and the matter is required to be regulated by Ordinance,

**AND**

**WHEREAS**, ordinance making is a time consuming process, therefore, I, Dr.V.S.Ainchwar, Vice Chancellor of Gondawana University Gadchiroli in the exercise of powers conferred upon me under section 14(8) of the Maharashtra University Act, 1994 do hereby issue the following Direction.

1. This direction may be called as Examination leading to गृहविज्ञान स्नातक the **Degree of Bachelor of Home Science** (Three years degree course semester pattern), Direction, 2012.
2. The Direction shall come in to force with effect from the date of its issuance.
3. (i)The following shall be the examination leading to the Degree of Bachelor of Homescience in the faculty of Homescience.

1. गृहविज्ञान स्नातक B.Sc Part-I, semester I and II Examination
2. गृहविज्ञान स्नातक B.Sc. Part II, semester III and IV examination
3. गृहविज्ञान स्नातक B.Sc. Part III, semester V and VI examination.

(ii)The Duration of the program: The duration of undergraduate (U.G.) program for faculty of HomeScience (B.Sc) shall be of three academic years consisting of six semesters.

4. Admission and Eligibility criteria: Subject to their compliance with the provisions of this direction and of other ordinance in force from time to time, an applicant for admission to semester I of B.Sc. H.Sc. I, must have passed higher secondary (10+ 2) or an equivalent course recognized from M.S. Board/ CBSE/or recognized body in any stream

**In the case of (B.Sc H.Sc. Part-II, Sem-III & IV) Examination:** - have passed not less than one

academic year previously the (B.Sc.H.Sc. Part-I, Sem-I & II) Examination of the University or an examination recognized as equivalent thereto, and

**In the case of the (B.Sc. Final, Sem-V & VI) Examination:-** have passed not less than one academic year previously the (B.Sc H.Sc.. Part-II, Sem-III & IV) Examination 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 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 <sup>th</sup> class or equivalent	-----	-----
Sem II	----	I <sup>st</sup> semester	-----
Sem III	----	-----	Semester I & II separately(two subjects from each)
Sem IV	----	III <sup>rd</sup> semester	-----
Sem V	Semester I and II	-----	Semester III & IV separately(one subject from each)
Sem VI	----	V <sup>th</sup> semester	-----

6. There shall be total six semester, in U.G. level B.Sc. program Each semester shall comprise 90 (Ninety) actual teaching days.
7. Home science 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 Chemistry, Applied Physiology, Household Biology, Health Sciences, Nutritional Biochemistry, and Computer Basics and applications. There shall be no theory paper for the subjects related to Computer (Basic Computer/Application ).

8. English is compulsory for 1<sup>st</sup> and 2<sup>nd</sup> semester only.
- 9 All theory papers shall be divided into four units.
9. The scope and limitations of the subjects of all semester opted by the students shall be indicated in the respective syllabi from time to time. The medium of instruction and examination shall be English,/ Marathi / Hindi except for the course in language.
10. The fees for the tuition, examination, Laboratory and other fees shall be prescribed by the University from time to time. The theory question paper will follow similar pattern for maximum subjects with interunit choice and equal weightage to all questions. Duration of each theory paper shall be three hours. There will be five questions each of 10 marks. Fifth question will be based on entire syllabus. All questions are compulsory with internal choice. Questions may be subdivided into sub questions.  
All theory examinations shall be conducted by Gondwana University Gadchiroli at the end of each Semester.
11. Practical examination for all semesters shall be conducted once in a year, at the end of 2<sup>nd</sup>, 4<sup>th</sup> and 6<sup>th</sup> semester, by Gondwana University, Gadchiroli. At every odd semester i.e 1<sup>st</sup>, 3<sup>rd</sup> and 5<sup>th</sup> 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.
12. Duration of practical examinations shall be 3 hrs, for one or two day, depending upon subject and number of students.
13. One theory credit is equal to 60 minutes and one practical credit is equal to 120 minutes.
14. Practical batch shall be of 16 students.
15. The theory paper shall be of 50 marks whereas the practical exam shall be of 15 marks (at even semesters-Except Basic Computers and English). The internal assessment of practical shall be of 10 marks each (Except Basic Computers and English). For Basic Computers there shall be only Practical Internal Assessment of 50 marks, and for English Internal Assessment shall be of 25 marks.
16. 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.
17. The scheme of awarding marks for internal assessment with every detail shall be as per appendix C with this Direction.
18. Notwithstanding anything to the contrary of this direction no candidates shall be admitted to B.Sc. part I, semester I and II, B.Sc II- Sem-III and IV and B.Sc final semester V and VI examinations under this direction, if he has already passed the corresponding or an equivalent examination of any other statutory University.
19. As soon as possible after the examinations the Board of Examination shall publish a list of successful examinees at the B.Sc H.Sc. Part-I, Sem-I &II; B.Sc.H.Sc Part-II, Sem-III & IV and B.Sc.H.Sc. Final 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).

20. The examinees who have secured pass grade in all subjects prescribed for all the examination shall be eligible for the award of Degree of Bachelor of Home Science. The classification of division of examinee 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---

21. Successful Examinees at the final examination shall be 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 matchable 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) Admission to 5<sup>th</sup> semester, student should clear second year annual pattern examination in all subjects.

I, further direct that the aforesaid Direction shall come into force from the date of issuance and shall remain in force till the relevant Ordinance comes into being in accordance with the provisions of the Maharashtra Universities Act, 1994 or is repealed by an issuance of another Direction.

Place: Gadchiroli  
Date 31-08-2012

Sd/-  
(Dr. V.S. Ainchwar)  
Vice-chancellor

**Appendix-A**  
**Bachelor of Home Science**  
Teaching scheme  
Three year (Six SEMESTERS) Degree course  
**B. Sc. HOME SCIENCE**  
**Semester I**

Sr. No.	Subject	Theory	Min.passing Marks	IA (Pra)	Min passing Marks	Total Marks	C R ED	I T S
1	Fundamentals of Food Science & Nutrition (PaperI)	50	17.5	25	12.5	75	Th 2	Pra 1
2	Fundamentals of Human Development (PaperII)	50	17.5	25	12.5	75	2	1
3	Fundamentals of Textiles & Clothing ( PaperIII)	50	17.5	25	12.5	75	2	1
4	Fundamentals of Resource Management(Interior decorations & Design) (PaperIV)	50	17.5	25	12.5	75	2	1
5	Fundamentals of Home Science Extension( PaperV)	50	17.5	25	12.5	75	2	1
6	English & Communication Skills (PaperVI)	50	17.5	25	12.5	75	2	1
7	Basic Computer (PaperVII)	----		50	25	50	----	2
	Total	300	105	200	100	500	12	8

**Pract=Practical, IA= Internal Assessment. Th=Theory**

Minimum marks for passing theory will be 35% of the total marks allotted to theory , and for internal assessment/ practical 50% of the total marks allotted to Internal assessment / Practicals .A candidate has to pass individually in theory , internal assessment/ practical separately.

Note: 1) The strength of a batch of practical for Under-Graduate classes shall be 16 with an addition of 10% with the permission of Vice-Chancellor.

**B. Sc. HOME SCIENCE  
Semester II**

Sr. No.	Subject	Theory	Min. passing Marks	Pract +IA	Min passing Marks	Total Marks	C R E Th	D I T S Pra	Total Marks	C R E D	I T S
1	Basic Food Science & Nutrition( PaperI)	50	17.5	15+10	7.5+5	75	2	1	75	Th 2	Pra 1
2	Infant Stimulation And Toddlerhood ( PaperII)	50	17.5	15+10	7.5+5	75	2	1	75	2	1
3	Fabric Study (PaperIII)	50	17.5	15+10	7.5+5	75	2	1	75	2	1
4	Fundamentals of Resource Management(Interior decorations & Design) (PaperIV)	50	17.5	15+10	7.5+5	75	2	1	75	2	1
5	Extension Education ( PaperV)	50	17.5	15+10	7.5+5	75	2	1	75	2	1
6	English & Communication Skills (Paper VI)	50	17.5	0+25	12.5	75	2	1	75	2	1
7	Basic Computer (paper-VII)	----	.....	0+50	25	50	---	2	50	----	2
	Total	300	105	200	100	500	12	8			

**Pract=Practical, IA= Internal Assessment. Th=Theory**

Minimum marks for passing theory will be 35% of the total marks allotted to theory, and for internal assessment/ practical 50% of the total marks allotted to Internal assessment and Practicals. A candidate has to pass individually in theory / internal assessment practical separately

. Note: 1) The strength of a batch of practical for Under-Graduate classes shall be 16 with an addition of 10% with the permission of Vice-Chancellor.

## B.Sc.HOME-SCIENCE

### Semester III

Sr. No.	Subject	Theory	Min.passing Marks	IA (Pra)	Min.passing Marks	Total Marks	C R E D	I T S
1	Meal Management (PaperI)	50	17.5	25	12.5	75	Th 2	Pra 1
2	Early Childhood Development & Education (PaperII)	50	17.5	25	12.5	75	2	1
3	Textile Design (PaperIII)	50	17.5	25	12.5	75	2	1
4	Housing & Home Furnishing (PaperIV)	50	17.5	25	12.5	75	2	1
5	Extension Learning (PaperV)	50	17.5	25	12.5	75	2	1
6	Applied Physiology(PaperVI)	50	17.5	25	12.5	75	2	1
7	Basic Chemistry. ( PaperVII)	50	17.5	25	12.5	75	2	1
	Total	350	122.5	175	87.5	525	14	7

**Pract=Practical, IA= Internal Assessment. Th=Theory**

Minimum marks for passing theory will be 35% of the total marks allotted to theory, and for internal assessment/ practical 50% of the total marks allotted to Internal assessment and Practicals. A candidate has to pass individually in theory / internal assessment practical separately

Note: 1) The strength of a batch of practical for Under-Graduate classes shall be 16 with an addition of 10% with the permission of Vice-Chancellor.

**B. Sc. HOME SCIENCE**  
**Semester IV**

Sr. No.	Subject	Theory	Min. passing Marks	Pract+IA	Min. passing Marks	Total Marks	C R E D	I T S
1	Community Nutrition (Paper I)	50	17.5	15+10	7.5+5	75	Th 2	Pra 1
2	Late Childhood & Adolescence (PaperII)	50	17.5	15+10	7.5+5	75	2	1
3	Dyeing & Printing (PaperIII)	50	17.5	15+10	7.5+5	75	2	1
4	Housing & Home Furnishing(PaperIV)	50	17.5	15+10	7.5+5	75	2	1
5	Rural Sociologyy(PaperV)	50	17.5	15+10	7.5+5	75	2	1
6	Applied Physiology(PaperVI)	50	17.5	15+10	7.5+5	75	2	1
7	Basic Chemistry (PaperVII)	50	17.5	15+10	7.5+5	75	2	1
	Total	350	122.5	175	52.5+35	525	14	7

**Pract=Practical, IA= Internal Assessment. Th=Theory**

Minimum marks for passing theory will be 35% of the total marks allotted to theory, and for internal assessment/ practical 50% of the total marks allotted to Internal assessment and Practicals. A candidate has to pass individually in theory / internal assessment practical separately

Note: 1) The strength of a batch of practical for Under-Graduate classes shall be 16 with an addition of 10% with the permission of Vice-Chancellor.



**B. Sc. HOME SCIENCE**  
**Semester V**

Sr. No.	Subject	Theory	Min. Passing Marks	IA	Min. Passing Marks	Total Marks	C R E D	I T S
1	Diet Therapy (PaperI)	50	17.5	25	12.5	75	Th 2	Pra 1
2	Dynamics of Marriage & Family (PaperII)	50	17.5	25	12.5	75	2	1
3	Apparel Pattern Design (PaperIII)	50	17.5	25	12.5	75	2	1
4	Advanced Resource Management PaperIV)	50	17.5	25	12.5	75	2	1
5	Extension Programme Planning (PaperV)	50	17.5	25	12.5	75	2	1
6	Household Biology (PaperVI)	50	17.5	25	12.5	75	2	1
7	Applied Chemistry (Paper-VII)	50	17.5	25	12.5	75	2	1
	Total	350	122.5	175	87.5	525	14	7

**Pract=Practical, IA= Internal Assessment. Th=Theory**

. Minimum marks for passing theory will be 35% of the total marks allotted to theory, and for internal assessment/ practical 50% of the total marks allotted to Internal assessment and Practicals. A candidate has to pass individually in theory / internal assessment practical separately

Note: 1) The strength of a batch of practical for Under-Graduate classes shall be 16 with an addition of 10% with the permission of Vice-Chancellor.

## B.Sc.HOME-SCIENCE

### Semester VI

Sr. No.	Subject	Theory	Min.passing Marks	Pract+IA	Min.Passing Marks	Total Marks	C R E D	I T S
1	Nutrition & Dietetics (PaperI)	50	17.5	15+10	7.5+5	75	Th 2	Pra 1
2	Developmental Assessment(PaperII)	50	17.5	15+10	7.5+5	75	2	1
3	Fashion Design( PaperIII)	50	17.5	15+10	7.5+5	75	2	1
4	Advanced Resource (Management(PaperIV)	50	17.5	15+10	7.5+5	75	2	1
5	Extension Training Management (PaperV)	50	17.5	15+10	7.5+5	75	2	1
6	Health Sciences/ Nutritional Biochemistry (Paper-VI)	50	17.5	15+10	7.5+5	75	2	1
7	Applied Chemistry (PaperVII)	50	17.5	15+10	7.5+5	75	2	1
	Total	350	122.5	175	52.5+35	525	14	7

**Pract=Practical, IA= Internal Assessment. Th=Theory**

Minimum marks for passing theory will be 35% of the total marks allotted to theory, and for internal assessment/ practical 50% of the total marks allotted to Internal assessment and Practicals. A candidate has to pass individually in theory / internal assessment practical separately

Note: 1) The strength of a batch of practical for Under-Graduate classes shall be 16 with an addition of 10% with the permission of Vice-Chancellor.

### Appendix-B

#### **Bachelor of Home-Science Three year (Six SEMESTERS) Degree course Evaluation of Internal Assessment**

Internal assessment shall be done by the respective college one month prior to the final exam of each semester. The marks shall be sent to the university immediately after the internal assessment is over.

Internal assessment parameters

- Attendance

- Seminar or project etc.
- Industrial visit/field work/visit to research Institute.
- Overall conduct as a responsible student, skill in articulation, leadership qualities expressed in co-curricular activities etc.

Note:

1. The concerned teacher shall have to keep the record of all the above activities till the passing out of that batch.
2. At the beginning of each semester, every teacher shall inform his/her students unambiguously the method he/she proposes to adopt a scheme of marking for the internal assessment.
3. Teacher shall announce the schedule of activity for Internal Assessment in advance in consultation with HOD/ Principal.

### **Appendix-C**

#### **CREDIT-GRADE SYSTEM FOR U.G. (B.Sc.)**

##### **Course credit:**

It is the unit of measurement of course works. Each course shall have an integer number of credits which reflects its weightage. **One Credit means one period of one hour duration.**

The number of Credits of a course in a given semester shall ordinarily calculated as under

$$\text{Number of Credits} = L + T + P/2$$

Where L, T and P represent the number of Lecture, Tutorial and Practical hours per week. The fraction is to be rounded off to next integer value. One Practical / Lab without theory of one hour equal to one credit.

##### **Grade:**

It is the measure of performance quality. At the end of each semester, a student is awarded a letter grade in each of his/her course taking into account his/her performance based on the various component of evaluation i.e. on the basis of total marks in each theory course and in each laboratory course.

When the performance exhibited by examinees is assessed in qualitative terms and impressions so obtained by the examiners are directly expressed in terms of letter grades, it is called 'Direct grading'.

The method that is based on a predetermined standard which become a reference point for a learner's performance is called "Absolute grading".

The Absolute grading system of Seven (07) points is the most popular grading system.

##### **Grading Scale**

Marks Obtained %	Grade	Grade Point
75 & above	O	6
65 to 74.99	A	5
55 to 64.99	B	4
45 to 54.99	C	3
40 to 44.99	D	2
35 to 39.99	E	1
34.99 & below	F	0

##### **Grade Proposed Norms**

O: Outstanding                      A: Very Good                      B: Good                      C: Average  
 D: Satisfactory                      E: Pass                      F: Fail

##### **Conversion of Marks to Grades and Calculations of GPA (Grade Point Average)**

In the Credit and Grade Point System, the assessment of individual Courses in the concerned examinations will be on the basis of marks only, but the marks shall later be converted into Grades by some mechanism wherein the overall performance of the Learners can be reflected after considering the Credit Points for any given course. However, the overall evaluation shall be designated in terms of Grade. There are some abbreviations used here that need understanding of each and every parameter involved in grade computation and the evaluation mechanism. The abbreviations and formulae used are as follows:-

**Abbreviations and Formula’s Used:-**

G: Grade

GP: Grade Points

C: Credits

CP: Credit Points

CG: Credits X Grades (Product of credits & Grades)

∑CG: Sum of Product of Credits & Grades points

∑C: Sum of Credits points

$$SGPA = \frac{\sum CG}{\sum C}$$

**Semester Grade point average (SGPA)**

It is indicative of performance of a student in the given semester. The Grade Point average for a semester is obtained by adding the products of Actual Grade points and relative weightage for different courses as shown in the scheme for respective semester and dividing the total credit hours for that semester as illustrated below.

$$SGPA = [ C_iG_i + C_{ii}G_{ii} + \dots + C_nG_n ] / ( C_i + C_{ii} + \dots + C_n )$$

SGPA: Semester Grade Point Average shall be calculated for individual semesters. (It is also designed as GPA)

**Cumulative Grade Point Average (CGPA)**

The cumulative Grade Point Average (CGPA) is indicative of the overall academic performance of a student in all the courses registered up to and including the latest completed semester. It is the cumulative total of the products of actual grade point and its weightage upto last semester divided by total credits of all the semesters.

$$CGPA = \frac{\sum_{i=0}^n c_i g_i}{\sum_{i=0}^n c_i}$$

CGPA: Cumulative Grade Point Average shall be calculated for the entire Program by considering all the semesters taken together.

Note: If a student is permitted to repeat any semester/course, the new letter grade will replace the old letter grade in the computation of the CGPA.

After calculating the SGPA for an individual semester and the CGPA for entire program, the value can be matched with the grade in the Grade Point table as per the Seven (07) Points Grading System and expressed as a single designated GRADE such as O, A, B, etc...

**Illustration of Calculation:-**

The illustration for the conversion of marks into grades in theory & practical, if any in individual courses are as shown below:

**For e g:Pass in all the courses with more than 35% marks**

Courses in the semester	Marks % obtained	Grade	Grade points (G)	Credits (C) per Course	$\sum CG = (C \times G)$	SGPA $=\frac{\sum CG}{\sum C}$
Course- I	55	B	4	4	16	82/20= 4.1
Course-II	60	B	4	4	16	
Course-III	70	A	5	4	20	
Course-IV	80	O	6	3	18	
Course-V	40	D	2	3	06	
Course-VI	45	C	3	2	06	
Passes Credit earned = 20				$\sum C = 20$	$\sum CG = 82$	Grade = B

### Reporting of Learners Performance (Grade Card)

The grade cards can be issued to the Learners on the basis of the above calculations in a uniform format given by the University. The grade cards of the Examinations conducted by the University shall be signed by the Controller of Examinations only as per the provision in the University Act.

The grade card will reflect the marks obtained by the Learner, Credit points of the individual Course as well as Semester, conversion of marks into grades, calculation of SGPA for each individual semester and the CGPA for the complete Program at the end of the final semester.

The grade card shall be issued with SGPA & Grade in case of middle semesters or CGPA & Grade in case of final semester only to those learners who have completed all the Courses & semesters of that program successfully. However, the learners those who are unsuccessful or carry the courses under ATKT rule will not get the SGPA & Grade in case of middle semesters or CGPA & Grade in case of the final semester unless and until they successfully complete their pending courses or semesters under the concerned program