



GONDWANA UNIVERSITY, GADCHIROLI.
DIRECTION NO 27 OF 2022

ADMISSIONS AND EXAMINATIONS LEADING TO THE AWARD OF THE DEGREE OF BACHELOR OF HOME SCIENCE (SEMESTER PATTERN) (CHOICE BASED CREDIT SYSTEM) IN FACULTY OF SCIENCE AND TECHNOLOGY DIRECTION, 2022.

Whereas, in terms of the provisions of item no. 1 read with 5 of section 73 of the Maharashtra Public Universities Act, 2016 (Maharashtra Act VI of 2017) (for short the “Act”), which regulates the Gondwana University, Gadchiroli (for short the “University) also, an Ordinance is required to be issued by the University for offering any undergraduate, graduate or any other Degree, Diploma, Certificate programme in any of its four faculties;

AND

Whereas, deferring to the directives issued by the Chairman of University Grants Commission vide his letter D.O. No. F-1-1/2015(CM) dated 08/01/2015 with respect to implementation of the Choice Based Credit System from the Academic Session 2015-16 decision was taken in the relevant Board and Authorities of the University to introduce Choice Based Credit System for the under-graduate programme of Bachelor of Home Science in the faculty of Science and Technology from the academic session 2017-18;

AND

Whereas, making of an Ordinance is a time-consuming process and considering the exigency to introduce the “BACHELOR OF HOME SCIENCE (SEMESTER PATTERN) (CHOICE BASED CREDIT SYSTEM) programme from the academic session 2017-18, invoking the powers under section 12(8) of the Act, Direction entitled “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” was issued by the University. Since, however, any Direction issued by the University does lapse automatically after the expiry of the period of six months by virtue of the provisions of proviso to section 12(8) of the Act and an appropriate Ordinance could not be issued by the University in the meanwhile, the said Direction No. 26 of 2017 has lapsed, necessitating issuance of a fresh Direction incorporating the provisions of the lapsed Direction No. 26 of 2017, with suitable modifications pending issuance of an appropriate Ordinance.

Now, therefore, I, Dr. Prashant S. Bokare, Vice-Chancellor, Gondwana University, in exercise of my powers under section 12(8) of the Act, do hereby issue the following Direction: -

1. This Direction shall be called **“ADMISSIONS AND EXAMINATIONS LEADING TO THE AWARD OF THE DEGREE OF BACHELOR OF HOME SCIENCE (SEMESTER PATTERN) (CHOICE BASED CREDIT SYSTEM) IN FACULTY OF SCIENCE AND TECHNOLOGY DIRECTION, 2022”**.

2. This Direction shall come in to force from the date of its issuance. However, notwithstanding anything to the contrary in this Direction or any other Direction, Ordinance, Statute of the University all the admissions of the students and the examinations conducted by the University in terms of the provisions of the lapsed Direction 26 of 2017 shall also be governed by the provisions of this Direction.

3. In this Direction unless the context otherwise requires:-

[a] “Course” Course means a subject [theory or practical] prescribed for any semester, carrying the credits prescribed herein.

[b] “Credit” Credit is measured in terms of the clock hours of teaching, per week, required for a particular course. One credit means one clock hour of teaching per week or two clock hours of practical work/field work per week.

[c] “Grade Point” Grade point stands for performance of students in a particular course. It is a product of total credits of a course and the grade point secured by the student in the concerned course.

[d] “Program” program means the academic program consisting of six semesters leading to the award of the degree of “Bachelor of Home Science”.

[e] “Letter Grade” It is an index of the performance of the students in a particular course. Grades are denoted by letters A+, , B+, B, C+, C, D, F and Z

4. Eligibility criteria for admission to the program:

[a] Subject to his/her 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 Maharashtra State Board of Secondary and Higher Secondary education or any other examination

recognized as equivalent there to in any of the following disciplines-Science/Home Science/Arts/commerce/MCVC.

[b] Notwithstanding anything to the contrary in 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.

5. Fees Structure:- The fees for the tuition, examinations, Laboratory and other fees shall be as prescribed by the University from time to time.

6. Program Structure:-

[a] 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. Each academic year shall consist of two semesters. As such the program of B.Sc [Home Science] shall consist of six semesters in all. Each semester shall comprise 90 (Ninety) actual teaching days.

[b] At the end of each semester there shall be end semester university examination to be conducted at the centers to be notified by the university.

[c] The medium of instructions and examinations shall be English, / Marathi except for the course in language (English)

[d] Subject to the other provisions of this Direction a student shall be eligible to appear for the examinations of the semester III and IV if he/she 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. Similarly, for appearing in the examination of V and VI semester the student should 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.

[e] 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, Applied Physics and Computer Applications. There shall be no theory paper for the subjects related to basic computer, Skill base Course & Project.

- [f] English is compulsory for 1st Sem and 2nd Sem only.
- [g] All theory papers shall be divided into four units.
- [h] The scope and limitations of the subjects of all semester opted by the students shall be indicated in the respective syllabi.
- [i] 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. Fifth question will be based on entire syllabus. All questions are compulsory with internal choice. Questions may be subdivided into sub questions.
- [j] All theory examinations shall be conducted by Gondwana University Gadchiroli at the end of each Semester.
- [k] Practical examination for all semesters shall be conducted once in a year, at end of 2nd, 4th and 6th semester, by Gondwana University, Gadchiroli. At every odd semester i.e. 1st, 3rd and 5th semester here 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 carry 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) at least 15 days prior to commencement of the final practical examination of Sem-VI.
- [k] Duration of practical examinations shall be 3 hrs, for one or two day, depending upon subject and number of students
- [l] Practical batch shall be of 16 students.
- [m] Marks should be allotted according to the marking scheme.
- [n] 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.

7. Rules 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
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	-----

8. As soon as possible after the examinations, the Board of Examination and evaluation shall publish a list of successful examinees of 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-C).
9. 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 -C appended with this Direction.
10. 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. The scheme of absorption and matching shall be as per **appendix-D** appended with this Direction. 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 have cleared second year annual pattern examination in all subjects.

Gadchiroli.

Date: 18/10/2022.


(Dr. Prashant S. Bokare)

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 Min. Marks		Credit		Course Duration of Exam	
		Th.	IA	IPract	Total	Th+IA	IA(P)	Th.	P.	Th.	P.
1	Fundamentals of Food Science and Nutrition	60	15	25	100	30	10	03	01	3Hrs.	
2	Fundamentals of Human Development	60	15	25	100	30	10	03	01	3Hrs.	
3	Fundamentals of Textiles and Clothing	60	15	25	100	30	10	03	01	3Hrs.	
4	Fundamentals of Family Resource Management	60	15	25	100	30	10	03	01	3Hrs.	
5	English & Communication Skills	40	10	-	50	20	-	02	-	3Hrs.	
6	Applied Physics and Basic Computer-I	-	-	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 Min. Marks		Credit		Course Duration of Exam	
		Th.	IA	UPrac.	Total	Th+IA	IA(P)	Th.	P.	Th.	P.
1	Basic Food Science & Nutrition	60	15	25	100	30	10	03	01	3Hrs.	3Hrs.
2	Infant Stimulation And Toddlerhood	60	15	25	100	30	10	03	01	3Hrs.	3Hrs.
3	Fabric Study	60	15	25	100	30	10	03	01	3Hrs.	3Hrs.
4	Fundamentals of Home Science Extension	60	15	25	100	30	10	03	01	3Hrs.	3Hrs.
5	English & Communication Skill	40	10	-	50	20	-	02	-	3Hrs.	-
6	Applied Physics and Basic Computer-II	-	-	50	50	-	20	-	02	-	3Hrs.
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 Min. Marks		Credit		Course Duration Of Exam	
		Th.	IA	IPrac.	Total	Th+IA	IA(P)	Th.	P.	Th.	P.
1	Meal Management	60	15	25	100	30	10	03	01	3Hrs.	-
2	Early Childhood Development & Education	60	15	25	100	30	10	03	01	3Hrs.	-
3	Textile Design	60	15	25	100	30	10	03	01	3Hrs.	-
4	i) Extension Learning OR ii) Housing & Home Furnishing	60	15	25	100	30	10	03	01	3Hrs.	-
5	i) Applied Physiology OR ii) Basic Chemistry OR iii) Applied Physics & Computer Applications -I	60	15	25	100	30	10	03	01	3Hrs.	-
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/MARKINGSCHEME
Three Years/ Six Semesters Degree Course

SEMESTER- IV:

Paper No.	Subjects	Examination Scheme Max. Marks				Examination scheme Min. Marks		Credit		Course Duration of Exam	
		Th.	IA	UPrac.	Total	Th+IA	IA(P)	Th.	P.	Th.	P.
1	Community Nutrition	60	15	25	100	30	10	03	01	3Hrs.	3Hrs.
2	Late Childhood & Adolescence	60	15	25	100	30	10	03	01	3Hrs.	3Hrs.
3	Dyeing & Printing	60	15	25	100	30	10	03	01	3Hrs.	3Hrs.
4	i) Extension Edu.(Rural Sociology) OR ii) Housing & Home Furnishing	60	15	25	100	30	10	03	01	3Hrs.	3
5	i) Basic Chemistry OR ii) Applied Physiology iii) Applied Physics & Computer Applications -II	60	15	25	100	30	10	03	01	3Hrs.	3Hrs.
6	Apparel Construction (Skill base)	-	-	50	50	-	20	-	02	-	3Hrs.
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 Min. 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	3Hrs.	
2	Dynamics of Marriage & Family	60	15	25	100	30	10	03	01	3Hrs.	
3	Apparel Pattern Design	60	15	25	100	30	10	03	01	3Hrs.	
4	i) Extension Programme Planning ii) Advance Resource Management } Any One	60	15	25	100	30	10	03	01	3Hrs.	
5	i) Health Science OR ii) Applied Chemistry OR iii) Nutritional Biochemistry <small>Student can select anyone subject depending upon his interest</small>	60	15	25	100	30	10	03	01	3Hrs.	
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 Min. 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	3Hrs.	3Hrs.
2	Developmental Assessment	60	15	25	100	30	10	03	01	3Hrs.	3Hrs.
3	Fashion Design	60	15	25	100	30	10	03	01	3Hrs.	3Hrs.
4	i) Extension Training Management ii) Advance Resource Management Any one	60	15	25	100	30	10	03	01	3Hrs.	3Hrs.
5	i) Household Biology OR ii) Applied Chemistry OR iii) Nutritional Biochemistry Student can select anyone depending upon his interest	60	15	-	100	20	10	03	01	3Hrs.	3Hrs.
6	Project	-	-	50	50	-	20	-	02	-	3Hrs.
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.

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 appendix 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 Gondwana University, Gadchiroli for the subject _____

Dated:

Signature of the teacher who taught the
examinee

1. _____

2. _____

Head of the Department

Appendix:C

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, Practical, 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 appear for the examination

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 for all the courses undergone by a student, i.e.

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

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.

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

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

Appendix: D

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, an 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.