

# THIRUVALLUVAR UNIVERSITY

CHOICE BASED CREDIT SYSTEM (CBCS)

BACHELOR DEGREE COURSES

UNDER THE FACULTY OF SCIENCE (B.Sc.)

(Effective from the Academic year 2008- 2009)

## *REGULATIONS*

### CBCS

Choice-Based Credit System is a flexible system of learning. 'Credit' defines the quantum of contents / syllabi prescribed for a course and determine the number of hours of instruction required. The distinguishing features of CBCS are the following:

It permits the students to:

- ❖ learn at their own pace
- ❖ Choose electives from a wide range of elective courses offered by the departments of the affiliated colleges
- ❖ undergo additional courses and acquire more than the required number of credits
- ❖ adopt an inter - disciplinary approach in learning
- ❖ make best use of the expertise of available faculty

### 1. Eligibility for Admission:

Candidates for admission to the first year of the Degree of Bachelor of Science Courses, shall be required to have passed the Higher Secondary Examinations (Academic or Vocational Stream) conducted by the Government of Tamil Nadu or an Examination accepted as equivalent thereto by the Syndicate of the Thiruvalluvar University.

Provided that candidates for admission into the specific main subject of study shall also possess such other qualifying conditions as may be prescribed by the University in the Regulations governing respective courses of study. **[Annexure - III ]**

## 2. Eligibility for the Award of Degree:

A Candidate shall be eligible for the award of the Degree only if he/she has undergone the prescribed course of study in a College affiliated to the University for a period of not less than three academic years and passed the examinations of all the Six Semesters prescribed earning 140 credits (in Parts-I,II,III,IV and V).

## 3. Duration:

- a. Each academic year shall be divided into two semesters. The first academic year shall comprise the first and second semesters, the second academic year the third semester and fourth semesters and the third academic year the fifth and sixth semesters respectively.
- b. The odd semesters shall consist of the period from June to November of each year and the even semesters from December to April of each year. There shall be not less than 90 working days for each semester.

## 4. Course of Study:

The main Subject of Study for Bachelor Degree Courses shall consist of the following.

PART - I TAMIL /OTHER LANGUAGES

PART - II ENGLISH

PART - III CORE SUBJECTS

ALLIED SUBJECTS

PROJECT/ELECTIVES WITH THREE COURSES

PART - IV

1. (a). Those who have not studied Tamil up to XII Std. and taken a Non - Tamil Language under Part - I shall take Tamil comprising of two courses (level will be at 6<sup>th</sup> Standard)
- (b). Those who have studied Tamil up to XII Std. and taken a Non - Tamil Language under Part - I shall take Advanced Tamil comprising of two courses.
- (c). Others who do not come under a / b can choose non - major elective comprising of two courses.

## 2. SKILL BASED SUBJECTS (ELECTIVE):

Four courses are to be offered. The papers are to be accommodated in the second / third year of study for UG courses.

3. ENVIRONMENTAL STUDIES

4. VALUE EDUCATION

PART – V EXTENSION ACTIVITIES

## 5. Extension Activities:

A Candidate shall be awarded a maximum of 1 Credit for Compulsory Extension Service.

All the students shall have to enroll for NSS / NCC/ NSO (Sports and Games) Rotract / Youth Red Cross or any other service organization in the college and shall have to put in Compulsory minimum attendance of 40 hours which shall be duly certified by the Principal of the college before 31<sup>st</sup> March in a year. If a student LACKS 40 hours attendance in the First year, he / she shall have to compensate the same during the subsequent years.

Students those who complete minimum attendance of 40 hours in One year will get Half Credit and those who complete the attendance of 80 or more hours in two years will ONE CREDIT.

Literacy and population Education Field Work shall be compulsory components in the above extension service activities.

The following assessment procedure will be followed for Internal Marks:

### Continuous Internal Assessment (CIA) Test

S. No	Reg No	Name	<u>Test I</u> Marks for 50	<u>Test II</u> Marks for 75	<u>Test III</u> Marks for 75	Marks for 200	Marks converted to 20/30	<u>Assignments / Seminars [5]</u> <u>Records [10]</u>	Marks for 25/40	Total Rounded to Marks for 25/40

Test I : One hour duration for 50 marks (Two Units of the Syllabus)

Test II : Two hours duration for 75 marks (Four Units of the Syllabus)

Test III : Three hours model test for 75 marks (Total Syllabus)

<b>Total marks 200</b>	<b>Theory</b>	<b>Practical</b>
Test marks to be converted to	: 20 marks	/ 30 marks
Assignments / Seminars	: 5 marks	/ -
Records	: -	/ 10 marks
<b>Total</b>	<b>: 25 marks</b>	<b>/ 40 marks</b>

In the Column Rounded to 25/40, any fraction may be rounded to the next number.

## **6. Requirements for proceeding to Subsequent Semester:**

- i. Candidates shall register their names for the First semester Examination after admission in the UG Courses.
- ii. Candidates shall be permitted to proceed from the First Semester up to Final Semester irrespective of their failure in any of the Semester Examination subject to the condition that the candidates should register for all the arrear subject of earlier semesters along the current (subsequent) Semester subjects.
- iii. Candidates shall be eligible to go to subsequent semester, only if they earn, sufficient attendance as prescribed therefor by the Syndicate from time to time. Provided in case of a candidate earning less than 65% of attendance in any one of the Semesters due to any extraordinary circumstances such as medical grounds, such candidates who shall produce Medical Certificate issued by the Authorised Medical Attendant (AMA), duly certified by the Principal of the College, shall be permitted to proceed to the next semester and to complete the Course of study. Such Candidates shall have to repeat the missed Semester by rejoining after completion of Final Semester of the course, after paying the fee for the break of study as prescribed by the University from time to time.

## **7. Requirements to take the University Examinations**

- a) A candidate will be permitted to take the University Examination of any Semester, if
- i) he / she secures not less than 75% of attendance out of the 90 instructional days during- the Semester.

(In the case of married women students the minimum attendance requirement shall be 55% of the total instructional days.)

- ii) he / she earns a Progress Certificate from the Head of the Institution, of having satisfactorily completed the prescribed Course of Study in the subjects as required by these Regulations, and
- iii) his / her conduct has been satisfactory.

Provided that it shall be open to the Syndicate or any authority delegated with such powers by the Syndicate to grant exemption to a candidate who has failed to earn 75% of the attendance prescribed for any valid reason(s) subject to the usual conditions.

- b) A candidate who has secured attendance less than 75% but 65% and above shall be permitted to take the Examination on the recommendation of the Head of the Institution to condone the lack of attendance as well as on the payment of the prescribed fees to the University.

## 8. Passing Minimum:

A Candidate shall be declared to have passed the whole examination, if he/she passes in all the papers and practicals wherever prescribed / as per the scheme of examinations by earning 140 CREDITS in Parts - I,II,III,IV and V. He/She shall also fulfill the extension activities prescribed earning one Credit to qualify for the Degree

**In fixing the passing minimum marks, the following will be observed:**

- (a). There shall be no Passing Minimum for Internal.
- (b). For External Examination, Passing Minimum shall be of 40% (Forty Percentage) of the maximum marks prescribed for the paper for each Paper/Practical/Project and Viva-voce.
- (c). In the aggregate (External + Internal), the passing minimum shall be of 40%.

## Grading:

Once the marks of the CIA and end-semester examinations for each of the course are available, they will be added. The mark thus obtained will then be graded as per details given below:

Marks	Grade Point	Letter Grade	Class
100	7.00	H	First Class with Distinction
90-99	6.00	O	First Class with Distinction
75-89	5.50	D	First Class with Distinction
60-74	4.75	A	First Class
50-59	4.00	B	Second Class
40-49	3.50	C	Third
Below 40	3.00	F	Fail

From the second semester onwards the total performance within a semester and continuous performance starting from the first semester are indicated respectively by **Grade Point Average (GPA)** and **Cumulative Grade Point Average (CGPA)**. These two are calculated by the following formulae:

$$\text{GPA} = \frac{\sum_{i=1}^n C_i G_i}{\sum_{i=1}^n C_i}$$

Where 'C<sub>i</sub>' is the Credit earned for the Course i in any semester; 'G<sub>i</sub>' is the Grade point obtained by the student for the course i and 'n' is the number of courses **passed** in that semester.

**CGPA = GPA** of all the courses starting from the first semester to the current semester.

**Note: The GPA and CGPA shall be calculated separately for the following three parts:**

For purposes of declaring a candidate to have qualified for the Degree of Bachelor of Arts/ Science/ Commerce / Management / Literature in the First Class / Second Class / Third Class or First Class with Distinction, the marks and the corresponding CGPA earned by the candidate in part III alone will be the criterion, provided he / she has secured the prescribed passing minimum in LCs and ELcs.

Grade in Part IV Extension shall be shown separately and it shall not be taken into account for classification

The marks for the course on "Environmental Studies" will be given in a separate certificate.

## 9. Classification of Successful Candidates:

### PART – I TAMIL / OTHER LANGUAGES:

Successful candidates passing Examinations for the Language and securing the marks (i) 60 percent and above and (ii) 50 percent and above but below 60 percent in the aggregate shall be declared to have passed the examination in the First and Second Class, respectively. All other successful candidates shall be declared to have passed the examination in the Third Class.

### PART – II ENGLISH:

Successful candidates passing Examinations for English and securing the marks (i) 60 percent and above and (ii) 50 percent and above but below 60 percent in the aggregate shall be

declared to have passed the examination in the First and Second Class, respectively. All other successful candidates shall be declared to have passed the examination in the Third Class.

### **PART – III consisting of CORE SUBJECTS, ALLIED SUBJECTS, PROJECT / ELECTIVES**

Successful candidates passing Examinations for Core Courses together and securing the marks (i) 60 percent and above and (ii) 50 percent and above but below 60 percent in the aggregate of the marks prescribed for the Core courses together shall be declared to have passed the examination in the First and Second Class, respectively. All other successful candidates shall be declared to have passed the examination in the Third Class.

**PART – IV:** (consisting of sub items 1 (a), (b) and (c), 2,3 and 4) as furnished in the Regulations 4 Part IV supra.

### **PART - V EXTENTION ACTIVITIES:**

The only credit earned for Part V Extension activities of a Successful Candidate SHALL NOT BE taken into consideration for Classification / Ranking / Distinction.

### **10. RANKING:**

Candidates who pass all the examinations prescribed for the course in the First Appearance Itself alone are eligible for Ranking / Distinction;

Provided in the case of Candidates who pass all the examinations prescribed for the course with a break in the First Appearance due to the reasons as furnished in the Regulations 7. (iii) supra are eligible for Classification / Distinction.

The marks obtained in improvement examinations will not be taken into consideration for Ranking.

### **11. The Medium of Instruction and Examinations**

The medium of instruction and Examinations for the papers under Part I and II shall be in the language concerned. For Part III, the medium of instruction and Examination shall be English / Tamil.

### **12. Submission of Record Notebooks for Practical Examinations**

Candidates taking the Practical Examinations should submit bonafide Record Note Books prescribed for the Practical Examinations. Otherwise the candidates will not be permitted to take the Practical Examinations. However, in genuine case where the students could not

submit the record notebooks may be permitted to take the Practical Examinations provided the Head of the Department concerned certifies that the candidate has performed the experiments prescribed for the Course. For such of those candidates who do not submit Record Books, zero (0) marks will be awarded for record notebooks.

In case a candidate fails in the Practical Examination the marks awarded for the record at the time of first appearance for the Practical Examination should be made available by the University to the Examiners at the subsequent appearance by the candidate.

### **13. Improvement of marks in the subjects already passed**

Candidates desirous of improving the marks secured in a passed subject in their first attempt shall reappear once within a period of subsequent two Semesters. The improved marks shall be considered for classification Distinction but not for ranking. If there is no improvement there shall not be any change in the original marks already awarded.

### **14. Additional Degree**

Any candidate who wishes to obtain any additional UG Degree not involving any practical shall be permitted to do so and such candidate shall join a College in the III year of the Course and he / she will be permitted to take the Examinations only in Part III by granting exemption from taking Part I, Part II Examinations and the common allied subjects if any, already passed by the candidate. A candidate desirous to obtain an additional UG Degree involving practicals shall be permitted to do so and such candidate shall join a College in the 2<sup>nd</sup> year of the Course and he / she be permitted to take the Examination only in Part III, by granting exemption from taking Part I, Part II Examinations and the common allied subjects if any, already passed. Such candidates should obtain exemption from the University by paying the prescribed fee, in force from time to time.

### **15. Evening College**

The above Regulations shall be applicable to the candidates undergoing the respective Courses in the Evening Colleges also.

### **16. Checklist for Inspection**

#### **a. Qualification for**

- i. Teaching Faculty : as prescribed by the UGC and the University
- ii. Technical Faculty : as prescribed by the UGC and the University
- iii. Laboratory Staff : as prescribed by the UGC and the University





## ANNEXURE - III

### *ELIGIBILITY FOR ADMISSION TO THE FOLLOWING COURSES*

#### **1. B.Sc. MATHEMATICS**

Candidates for admission to the first year of the Degree Course of Bachelor of Science shall be required to have passed the Higher Secondary Examinations (Academic or Vocational stream) conducted by the Government of Tamilnadu with Mathematics as a subject of study or an Examination accepted as equivalent thereof by the Syndicate of Thiruvalluvar University subject to such other conditions as may be prescribed.

#### **2. B.Sc. PHYSICS**

Candidate for admission to the first year of the UG Degree Course shall be required to have passed the Higher Secondary Course Examination (Academic) with Mathematics and Physics conducted by the Govt. of Tamilnadu or an Examination of any other University accepted as equivalent thereto by the Syndicate subject to such other conditions as may be prescribed.

#### **3. B.Sc. CHEMISTRY**

Candidate for admission to the first year of the UG Degree in General Chemistry Course shall be required to have passed the Higher Secondary Course Examination (Academic) conducted by the Govt. of Tamilnadu with Chemistry as a subject of study or other Examinations accepted as equivalent thereto by the Syndicate subject to other conditions as may be prescribed.

#### **4. B.Sc. INDUSTRIAL CHEMISTRY (VOCATIONAL STREAM)**

Candidate for admission to the first year of the UG Degree in Industrial Chemistry Course (Vocational stream) shall be required to have passed the Higher Secondary Course Examination (only Academic) conducted by the Govt. of Tamilnadu in the relevant subjects or other Examinations accepted as equivalent thereto by the Syndicate subject to other conditions as may be prescribed.

## ***5. B.Sc. BIOCHEMISTRY***

Candidates for the Degree of Bachelor of Science in Biochemistry shall be required to have passed the Higher Secondary Examination (10 + 2 year) conducted by the Government of Tamilnadu, or an Examination accepted as equivalent there to by the Syndicate, subject to conditions as may be prescribed. Candidates should have studied one of the following Subjects at the +2 level.

- 1) Biochemistry
- 2) Biology (Zoology + Botany)
- 3) Zoology
- 4) Botany
- 5) Chemistry
- 6) Biotechnology
- 7) Nutrition and Dietetics
- 8) Nutritional Biochemistry
- 9) or Any other subject related to Biosciences.

## ***6. B.Sc. ZOOLOGY***

Candidate for admission to the first year of the UG Degree Course shall be required to have passed the Higher Secondary Course Examination with Zoology / Biology as one of the subjects conducted by the Government of Tamilnadu or any other Examination accepted as equivalent thereto by the Syndicate subject to such other conditions as may be prescribed.

## ***7. B.Sc. MICROBIOLOGY***

Candidate for admission to the first year of the UG Degree Course shall be required to have passed the Higher Secondary Course Examination (Academic or Vocational) conducted by the Govt. of Tamilnadu in the relevant subject or other Examinations accepted as equivalent thereto by the Syndicate subject to such other conditions as may be prescribed.

## ***8. B.Sc. PLANT BIOLOGY AND BIOTECHNOLOGY***

Candidate for admission to the first year of the UG Degree Course shall be required to have passed the Higher Secondary Course Examination (Academic or Vocational) conducted by the Government of Tamilnadu or any other Examination accepted as equivalent thereto by the Syndicate subjects to such other conditions as may be prescribed.

### ***9. B.Sc. BIOTECHNOLOGY***

Candidates for the Degree of Bachelor of Science in Biotechnology shall be required to have passed the Higher Secondary Examination (10 + 2 year) conducted by the Government of Tamilnadu with a minimum of 50% of Marks in the aggregate in the Academic Stream of any Science group or an Examination of any other University accepted as equivalent thereto by the Syndicate subject to conditions as may be prescribed.

### ***10. B.Sc. NUTRITION, FOOD SERVICE MANAGEMENT AND DIETETICS***

Candidate for admission to the first year of the UG Degree Course shall be required to have passed the Higher Secondary Course Examination (Academic or Vocational) conducted by the Govt. of Tamilnadu or any other Examination accepted as equivalent thereto by the Syndicate subject to such other conditions as may be prescribed.

### ***11. B.Sc. COMPUTER SCIENCE***

Candidate seeking admission to the first year of the UG Degree Course should have passed the Higher Secondary Course Examination (Academic or Vocational) conducted by the Govt. of Tamilnadu with Mathematics / Business Mathematics / Statistics / Computer Science as a subject or an Examination of any other University accepted as equivalent thereto by the Syndicate subject to such other conditions as may be prescribed. Such candidates shall be permitted to take the B.Sc. Degree Examination of this University after the completion of the Course of three Academic Years in this University / Colleges affiliated to this University and shall qualify for the B.Sc. Degree.

## ***12. B.Sc. GEOLOGY***

Candidates seeking admission to the first year of the UG Degree Course should have passed the Higher Secondary Course Examination (Academic or Vocational) conducted by the Govt. of Tamilnadu with or any other Examination accepted as equivalent thereto by the Syndicate subject to such other conditions as may be prescribed. Such candidates shall be permitted to take the B.Sc. Degree Examination of this University after the completion of the Course of three Academic Years in this University / Colleges affiliated to this University and shall qualify for the B.Sc. Degree.

## ***13. B.Sc. VISUAL COMMUNICATION***

Candidates seeking admission to the first year of the UG Degree Course should have passed the Higher Secondary Course Examination (Academic or Vocational) conducted by the Govt. of Tamilnadu or any other Examination accepted as equivalent thereto by the Syndicate subject to such other conditions as may be prescribed. Such candidates shall be permitted to take the B.Sc. Degree Examination of this University after the completion of the Course of three Academic Years in this University / Colleges affiliated to this University and shall qualify for the B.Sc. Degree.

## ***14. B.Sc. PHYSICAL EDUCATION***

Candidates seeking admission to the first year of the UG Degree Course should have passed the Higher Secondary Course Examination (Academic or Vocational) conducted by the Govt. of Tamilnadu with or any other Examination accepted as equivalent thereto by the Syndicate subject to such other conditions as may be prescribed. Such candidates shall be permitted to take the B.Sc. Degree Examination of this University after the completion of the Course of three Academic Years in this University / Colleges affiliated to this University and shall qualify for the B.Sc. Degree.

## ***15. B.Sc. INFORMATION SYSTEM MANAGEMENT***

Candidates seeking admission to the first year of the UG Degree Course should have passed the Higher Secondary Course Examination (Academic or Vocational) conducted by the Govt. of Tamilnadu, Diploma Course in Computer Science / IT / Electronic and Communications and Civil or any other Examination accepted as equivalent thereto by the Syndicate subject to such other conditions as may be prescribed. Such candidates shall be permitted to take the B.Sc. Degree Examination of this University after the completion of the Course of three Academic Years in this University / Colleges affiliated to this University and shall qualify for the B.Sc. Degree.

#### ***14. B.Sc. SOFTWARE COMPUTER SCIENCE***

Candidate seeking admission to the first year of the UG Degree Course should have passed the Higher Secondary Course Examination (Academic or Vocational) conducted by the Govt. of Tamilnadu with Mathematics / Business Mathematics / Statistics / Computer Science as a subject or an Examination of any other University accepted as equivalent thereto by the Syndicate subject to such other conditions as may be prescribed. Such candidates shall be permitted to take the B.Sc. Degree Examination of this University after the completion of the Course of three Academic Years in this University / Colleges affiliated to this University and shall qualify for the B.Sc. Degree.

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