Curriculum Framework under Choice Based Credit System (CBCS) and

Syllabus for Outcome Based Education (OBE) in

BACHELOR OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

(B.Sc AI&ML) Degree Programme

for the students admitted from the academic year 2022 - 23





SREE SARASWATHI THYAGARAJA COLLEGE

An Autonomous, NAACRe-Accreditedwith 'A' Grade, ISO 21001:2018 Certified Institution, Affiliated to Bharathiar University, Coimbatore, Approved by AICTE for MBA/MCA and by UGC for 2(f) & 12(B) status

Palani Road, Pollachi-642107, Coimbatore Dist, Tamilnadu

Email:stc@stc.ac.in www.stc.ac.in

INDEX

Page No.

- 1. PEOs, POs, PSOs
- 2. Regulations
- 3. Scheme of Examinations & Syllabus
 - a. Scheme of Examinations
 - b.Semester-Wise Syllabus
- 4. Distribution of Marks and Question Paper Pattern



(including end-semester examinations and semester breaks)

ii) Even Semester: December -May

(including end-semester examinations and semester breaks)

(including end-semester examinations and semester).

Any change in the Academic Calendar/Schedule may be made by the college whenever necessary.

Academic Schedule:

Schedule:

The Academic Schedule of all degree programmes under the CBCS shall be administered as po Academic Calendar of the college published for every academic session.

3. Course Structure:

The Course Structure of the Academic Programmes under the CBCS shall be as per the Course Stru given below. The nature of the Courses for all Academic programmes shall be as below:

UG programmes are conducted with a minimum total of 140 credits

Summary of UG Courses Pattern and Credit Distribution in Choice Based Credit System as given un

Curriculum Structure Languages English Core (Major) Courses	No. of Courses 2 - 4 2 - 4	6 - 12 6 - 12
Core (Major) Courses	2-4	6 . 12
, Journal 1	16 – 18	
Allied Courses		72 – 80
lectives		16 - 20
on-Major Electives (NME)		12
alue Based Courses (VBC)		04
kill Based Courses (SBC)		04
xtension Activities	1	08
Total		Grade 140
	lectives Non-Major Electives (NME) Yalue Based Courses (VBC) kill Based Courses (SBC) xtension Activities	lectives 03 Non-Major Electives (NME) 2 Talue Based Courses (VBC) 2 kill Based Courses (SBC) 4 xtension Activities 1

PG Programmes are conducted with a minimum total of 90 credits

Summary of PG Courses Pattern and Credit Distribution in Choice Based Credit Systemas given under

Part	Curriculum Structure	No of Comme	0
	Core courses	110. of Courses	Credits to be earned
III	core courses	17	74
	Electives	4	
	Total		16
	Total		90

MBA/MCA Program me is conducted with a total of 90 credits

Summary of MCA Course Pattern and Credit Distribution in Choice Based CreditSystemas given

Part	CurriculumStructure	No.ofCourses	Creditstobeearned
III	CoreCourses	20	68
	Electives	03	09
1180.	SpecializationElectives	04	13
Sans Sans	Total		90

Part I: Language 1: Tamil or any one of the Indian or foreign languages

i.e. Malayalam, French, Hindi, Telugu and Kannada.

It is mandatory for all the UG students to study a language under part I. A student can select and study any one of the languages offered under part 1. The syllabus drafted would enable the students to communicate with ease and effectiveness in that language. It is offered in the first two semesters with one examination at the end of each semester.

3.2. Part II: Language II: English: The study of English is made compulsory for all UG students under part II. The subject offered during the first two semesters with one examination at the end of each semester.

Part III: A set of major papers that include Theory, Practical, Allied, Core Electives, Project and Internship in the major field of study selected by the student. Core courses are mandatory.

Part IV:

the

Ire

- a) Basic Tamil/ Advanced Tamil/ NME:
 - i. Students who have not studied Tamil up to XII STD and have taken any Language other than Tamil in Part I shall take Basic Tamil comprising of two offers in the third and fourth
 - ii. Students who have studied Tamil up to XII STD and have taken any Language other than Tamil in Part I shall take Advanced Tamil comprising of two Courses.
 - iii.Students who have studied Tamil up to XII STD and also have taken Tamil in Part-I shall take Non-Major Elective comprising of two Courses of NME in the third and fourth semesters. A set of non - major elective courses are offered as choices to the students, outside their major discipline. The courses other than the core and allied shall be opted by the students as Non -Major Electives.
- b) Skill Based Courses: The courses offered as skill based courses of the programme is aimed at imparting Advanced Skills of the programme. This comprises of four courses from 3rd to 6th semesters
- c) Value Based Courses :Courses of cross-cutting issues relevant to the current pressing concerns both nationally and internationally such as gender, environment and sustainability, human values and professional ethics, development of creative and divergent competencies.
- d) Massive Open Online Courses (MOOC): According to the guidelines of UGC, the students are encouraged to avail this option of enriching by enrolling themselves in the MOOC provided by various portals such as SWAYAM, NPTEL, and Spoken Tutorial etc. As per University Grants Commission (UGC) notification, The Massive Open Online Course (MOOC) through any online platform is compulsory. The institute is transferring the equivalent credit earned on receipt of MOOCs completion certificate and it shall incorporate these marks/credits in the overall mark sheet of the student.

Part V: Extension Activities:

All the Students shall have to enroll compulsorily for NSS/NCC/Sports activities. The extension activities are must for each student to take part in at-least in any one of these activities for the fulfillment of the

The mark sheet shall carry the gradation relevant to the marks awarded to the candidates. The grades will be awarded at the end of the Fifth Semester. This grading shall be incorporated in the mark sheet to be issued at the end of the semester.

4 Attendance Eligibility to appear for the End Semester Examinations

A student will be allowed to appear for the end semester examinations only if:

- 1. He/She procures atleast 75% of attendance.
- 2. He/She should show satisfactory progress in studies, in all the tests and examinations conducted by the college / department during the semester and secure at least reasonable minimum marks in them.
- 3. His/Her conduct in the college during the semester is satisfactory.



Regulations 2022

Choice-Based Credit System for the Academic Programmes with effect from 2022-2023

The following Regulations shall be effective for the courses of study leading to the Bachelor Degree which shall be of three years duration comprising of six semesters and Master Degree which shall be of two years duration of four semesters. The Regulations shall come into effect from the Academic Session, 2022-2023. STC College follows the UGC, TANSCHE and Bharathiar University guidelines of CBCS pattern in framing STC College Scheme and scheme of examinations for the students admitted in various UG and PG Programmes from the Academic year 2022-23 and onwards.

The finitions and codification:

The periodic part of the students admitted in various UG and PG Programmes from the Academic year 2022-23 and onwards.

- a) CBCS: CBCS means Choice Based Credit System. Choice Based Credit System is a flexible system of learning. This system permits students to,
 - learn at their own pace
 - choose electives from a wide range of Elective Courses offered for the programme
 - undergo additional courses and acquire more than the required number of credits
 - · adopt an inter-disciplinary approach in learning
 - make the best use of the expertise of the available faculty.
- b) **Programme**: The term 'programme' is used to mean the whole learning experience or combination of courses in a particular field of study
- c) Curriculum: The term "Curriculum" indicates the various components of the programme and branch of study. The UG Curriculum under the CBCS consists of five parts and the medium of instruction is English. The PG Curriculum under the CBCS consists of only part III and the medium of instruction is English. Part four offers additional credits.
- d) Course: A Programme is divided into a number of courses. A course is a unit of instruction or segment of subject area under any programme. The traditional concept 'paper' is replaced by 'course'.
- e) Scheme of examination: It denotes the course outline during the period of study or the components of the particular Programme and branch of study.
- f) Syllabus: The subject contents of each course is referred to as "Syllabus".
- g) Academic Year: An academic year means a period of twelve months consisting of two semesters.
- h) Semester: The word "semester" is used to mean a half-yearly term or term of studies including examinations, vacations and semester breaks.
- i) Semester Duration: A semester normally extends over a period of 15 class weeks. Each week has 30 hours of instruction spread over the week.
- j) CIA: The word "CIA" is used to refer to the continuous internal assessment within the half-yearly term.
- k) End-semester: The word "end-semester" is used to refer to the terminal processes of examinations and evaluations at the end but within the half-yearly term.
- l) Credit: 'Credit' defines the quantum of contents/ syllabus prescribed for a course and determines the number of hours of instruction required per week. Thus, normally in each of the course, credits will be assigned on the basis of the number of lectures/ tutorials/ laboratory work and other forms of learning required to complete the course contents in a 14-15 week schedule:
 - i) 1 Lecture
- = 1 Hour duration
- =1 Credit

- ii) 1Tutorial
 iii) 1 Practical
- = 1 Hour duration= 2 Hours duration
- =1 Credit

Note: The lecture sessions and tutorials shall not be substituted with any other activities like seminars, group discussions etc..

m) Grade point: Grade point is the numerical weightage given to the particular course of study

Admission

The eligibility conditions and the guidelines issued by the Bharathiar University for admitting student are followed for all UG and PG Programmes offered at STC.

Semester Duration:

i) Odd Semesters: June -November

(including end-semester examinations and semester breaks)

ii) Even Semester: December -May (including end-semester examinations and semester breaks) (including end-semester exammations and the college whenever necessary, Any change in the Academic Calendar/Schedule may be made by the college whenever necessary.

Academic Schedule:

Schedule:
The Academic Schedule of all degree programmes under the CBCS shall be administered as per the college nublished for every academic session. Academic Calendar of the college published for every academic session.

Course Structure: 3.

The Course Structure of the Academic Programmes under the CBCS shall be as per the Course Structure

Course Structure:

The Course Structure of the Academic Programmes under the CBCS shall be as below: given below. The nature of the Courses for all Academic programmes shall be as below: UG programmes are conducted with a minimum total of 140 credits Summary of UG Courses Pattern and Credit Distribution in Choice Based Credit System as given under

Part	Curriculum Structure	No. of Courses	Credits to be earned
I	Languages	2 – 4	6 - 12
II	English	2 – 4	6 - 12
	Core (Major) Courses	16 – 18	72 – 80
III	Allied Courses	04 - 05	16 - 20
_	Electives	03	12
	Non-Major Electives (NME)	2	04
IV	Value Based Courses (VBC)	2	04
	Skill Based Courses (SBC)	4	08
V	Extension Activities	1	Grade
	Total		140

PG Programmes are conducted with a minimum total of 90 credits

Summary of PG Courses Pattern and Credit Distribution in Choice Based Credit Systemas given under

Part	Curriculum Structum	N. O.S.	
	Core courses	No. of Courses	Credits to be earned
III		17	74
	Electives	4	16
	Total		16
24.0			90

MBA/MCA Programme is conducted with a total of 90 credits

Summary of MCA Course Pattern and Credit Distribution in Choice Based CreditSystemas given

Par	t CurriculumStructure		DE CONTRACTOR DE
III	CoreCourses	- totol Courses	Creditstobeearned
	Electives	03	68
081	SpecializationElectives	04	09
808	Total		13
1000			90

Part I: Language I: Tamil or any one of the Indian or foreign languages

i.e. Malayalam, French, Hindi, Telugu and Kannada.

It is mandatory for all the UG students to study a language under part I. A student can select and study any one of the languages offered under part 1. The syllabus drafted would enable the students to communicate with ease and effectiveness in that language. It is offered in the first two semesters with one examination at the end of each semester.

3.2. Part II: Language II: English: The study of English is made compulsory for all UG students under part II. The subject offered during the first two semesters with one examination at the end of each semester.

Part III: A set of major papers that include Theory, Practical, Allied, Core Electives, Project and Internship in the major field of study selected by the student. Core courses are mandatory,

Part IV:

- a) Basic Tamil/ Advanced Tamil/ NME:
 - i. Students who have not studied Tamil up to XII STD and have taken any Language other than Tamil in Part I shall take Basic Tamil comprising of two offers in the third and fourth
 - ii. Students who have studied Tamil up to XII STD and have taken any Language other than Tamil in Part I shall take Advanced Tamil comprising of two Courses.
 - iii. Students who have studied Tamil up to XII STD and also have taken Tamil in Part-I shall take Non-Major Elective comprising of two Courses of NME in the third and fourth semesters. A set of non - major elective courses are offered as choices to the students, outside their major discipline. The courses other than the core and allied shall be opted by the students as Non -Major Electives.
- b) Skill Based Courses: The courses offered as skill based courses of the programme is aimed at imparting Advanced Skills of the programme. This comprises of four courses from 3rd to 6th semesters
- c) Value Based Courses : Courses of cross-cutting issues relevant to the current pressing concerns both nationally and internationally such as gender, environment and sustainability, human values and professional ethics, development of creative and divergent competencies.
- d) Massive Open Online Courses (MOOC): According to the guidelines of UGC, the students are encouraged to avail this option of enriching by enrolling themselves in the MOOC provided by various portals such as SWAYAM, NPTEL, and Spoken Tutorial etc. As per University Grants Commission (UGC) notification, The Massive Open Online Course (MOOC) through any online platform is compulsory. The institute is transferring the equivalent credit earned on receipt of MOOCs completion certificate and it shall incorporate these marks/credits in the overall mark sheet of the student.

Part V: Extension Activities:

All the Students shall have to enroll compulsorily for NSS/NCC/Sports activities. The extension activities are must for each student to take part in at-least in any one of these activities for the fulfillment of the

The mark sheet shall carry the gradation relevant to the marks awarded to the candidates. The grades will be awarded at the end of the Fifth Semester. This grading shall be incorporated in the mark sheet to be issued at the end of the semester.

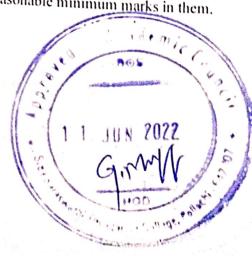
4 AttendanceEligibility to appear for the End Semester Examinations

A student will be allowed to appear for the end semester examinations only if:

1. He/She procures atleast 75% of attendance.

2. He/She should show satisfactory progress in studies, in all the tests and examinations conducted by the college / department during the semester and secure at least reasonable minimum marks in them.

3. His/Her conduct in the college during the semester is satisfactory.



1. Candidates who earn 75% of attendance and above in the current semester are eligible to write the examinations, both arrears and regular subjects. Shortage of Attendance

 Candidates who earn attendance between 65% and 74% (both included) in the current semester are eligible to appear for the association in the current semester are eligible to appear for the association in the current semester are eligible to appear for the association in the current semester are eligible to appear for the association in the current semester are eligible to appear for the association in the current semester are eligible to appear for the association in the current semester are eligible. eligible to appear for the examination if the shortage of attendance is condoned by the Principal after the payment of the condonation for processity. 3. Candidates who earn attendance between 50% and 64% (both included) in the current semester are not eligible to write examinations in the candidates who earn attendance between 50% and 64% (both included) in the candidates are not eligible to write examinations in the current semester subjects but are permitted to continue their studies in the next semester are not that the candidates have earned attendance to the current semester subjects but are permitted to continue their studies in the next semester are not

engible to write examinations in the current semester subjects but are permission to their studies in the next semester provided it is the first time that the candidates have earned attendance between 50% and 640% studies in the next semester provided it is the first time that the course and rejoin in the same between 50% and 64% or else the candidates have to discontinue the course and rejoin in the same semester during and 64% or else the candidates have to discontinue the Registrar. Bharathiyar University. However, the same semester during a seminary of the Registrar and the same semester during the same seminary of the same semester during the same seminary of the same sem between 50% and 64% or else the candidates have to discontinue the control of the Registrar, Bharathiyar University. However, semester during next year with the proper approval of the Registrar, Bharathiyar University. However, these candidates are all of the proper approval of the Registrar. these candidates are eligible to write the arrears if they have any.

4. Candidates who earn attendance below 50% are not eligible to write examinations in the current the course and rejoin in the same semester in the

Candidates who earn attendance below 50% are not engine to the same semester in the next semester subjects and also have to discontinue the course and rejoin in the same semester in the next semester subjects and also have to discontinue the course and rejoin in the same semester in the next semester subjects and also have to discontinue the course and rejoin in the same semester in the next semester subjects and also have to discontinue the course and rejoin in the same semester in the next semester subjects and also have to discontinue the course and rejoin in the same semester in the next semester subjects and also have to discontinue the course and rejoin in the same semester in the next semester subjects and also have to discontinue the course and rejoin in the same semester in the next semester subjects and also have to discontinue the course and rejoin in the same semester in the next semester subjects and also have to discontinue the course and rejoin in the same semester in the next semester subjects and also have to discontinue the course and rejoin in the same semester in the next semester subjects and also have to discontinue the course and rejoin in the same semester in the next semester subjects and also have to discontinue the course semester subjects and also have to discontinue the course seminated the seminated seminated the seminated seminated the seminated seminated seminated the seminated sem semester subjects and also have to discontinue the course and rejoin in the next year with proper approval of the Registrar, Bharathiyar University. However, these candidates are

eligible to write the arrears subjects, if any.

5. Candidates who earn attendance between 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 50% and 64% in the previous semester and have earned 60% and 6 Candidates who earn attendance between 50% and 54% in the current and combined attendance of 75% or more by taking the average of the attendance earned in the current and combined attendance of 75% or more by taking the average along with the current semester and combined attendance of 75% or more by taking the average of the difference of the previous semesters are eligible to write semester subjects along with the current semester subjects.

5. Restrictions to appear for the examinations

Restrictions to appear for the examinations

a) Any candidate having arrears paper(s) shall have to appear in all arrears paper along with the regular

semester papers.
b) "Candidates who fail in any of the course of UG degree examinations shall complete the course within 5 years from the date of admission and "Candidates who fail in any of the course of PG degree years from the date of admission and canada examinations shall complete the course within 4 years from the date of admissionand should they fail to do so, they shall take the examination in the texts/ revised syllabus prescribed for the immediate next batch of candidates. If there is no change in the texts/syllabus they shall appear for the examination in that course with the syllabus in vogue until there is a change in the texts or syllabus. In the event of removal of the course consequent to change of regulation and / or curriculum after 4/5 year period, the candidates shall have to take up an equivalent course in the revised syllabus as suggested by the Chairman of the board of studies concerned and fulfill the requirements as per the regulation of curriculum for the award of the degree.

6. Examination and Evaluation:

a) Examination and evaluation shall be done on a continuous basis, at least three times during each semester.

b) There shall be 50% marks for internal assessment and 50% marks for End-semester examination in each course during every semester.

c) Internal Assessment:

In internal assessment, different tools such as objective tests, written tests, assignments, paper presentation, laboratory work, etc. suitable to the courses may be employed.

d) End Semester Examinations:

- There shall be one End semester examination carrying 50% Marks in each course of a Semester covering the entire syllabus prescribed for the Course. The End semester examination is normally a written/laboratory-based examination/Project Work/Dissertation.
 - The Controller of Examinations shall make necessary arrangements for notifying the dates of the End semester examinations and other procedures as per rules (at least 20 days in advance) and the Academic Calendar notified by the College.

Normally, the End-semester examination for each course shall be of three hour duration.

e) The Procedure for Internal Assessment and End Semester Examination is prescribed in Annexure I.

The pattern of Question paper both the CIA and ESE is prescribed in Annexure II g) Confidential Works: Setting the question papers, scrutinizing of question papers, evaluating the answer scripts, tabulation of marks. scripts, tabulation of marks, etc. and announcement of results, shall be governed by the Controller of

h) The mode of conduct of the end-semester examinations of the practical/ dissertation courses shall be

- The end-semester examinations of all practical/dissertation courses shall be conducted by a Board of Examiners consisting of the internal examiner (the concerned course teacher) and an external examiner appointed by the Controller of Examinations.
- i) The mode of end-semester examination and evaluation of the Course shall be specified in the detailed syllabus of the Course concerned.
- j) End-semester Practical examinations shall normally be held before the theory examinations.

7. Malpractices in Examinations

The students, who indulge in any malpractice, while writing examination, will be directed to report to the Chief Superintendent. The chief superintendent will review and forward the case to Controller of Examinations and the COE in turn will submit the details to Malpractice Committee for the initiation of appropriate disciplinary proceedings.

8. Improvement of Marks in the subjects already passed: Candidates wanting of improving the marks awarded in a passed subject in their first attempt shall reappear in the subsequent semester only. The improved marks shall be considered for classification but not for ranking. When there is no improvement, there shall not be any change in the original marks already awarded.

9. Re-Valuation

i) Photocopyof valued answer scripts: If the candidates intend to apply for the Xerox copy of their answer scripts, they have to annex the Xerox copy of their Identity Cards attested by their respective Heads of Departments, along with their application.

After receiving the photocopy, the student can verify the copy to find out whether there is any discrepancy in the total marks or omission of marking in the valuation process. If any discrepancy is noticed the same may be bought to the notice of the Controller of Examinations for remedial action.

- ii) Revaluation after getting photocopyof valued answer scripts: Those candidates, who have obtained the photocopy of the answer scripts, may apply for revaluation. The valuation of the photocopy of the answer script can be verified by the course teacher and if the course teacher is convinced that the script deserves higher marks than what is awarded, he/she can recommend for applying revaluation by the subject teacher and the Head of the department. Provision available for revaluation is for theory examinations only.
- 10. Supplementary Exam: Candidates, who are having one course as arrears / absent after their final semester results, shall be permitted to appear for special supplementary examinations (There is no provision for revaluation or re-totalling after supplementary examinations).
- 11. Results and Progression:
 - a) A candidate shall be declared as have passed a course, provided he/ she secures-
 - (i) in each Course at least
 - UG: 40% of marks in the ESE and total marks of End Semester Examinations.
 - PG: 50% of marks in the ESE and total marks of End Semester Examinations.
 - (ii) UG: at least 'C' grade in the 10 point scale combining both the in-semester and End Semester Examination performance in all the Courses separately.
 - PG: at least 'B' grade in the 10 point scale combining both the in-semester and End Semester Examination performance in all the Courses separately.
 - (iii) There shall be no separate pass mark for Internal Assessment.
 - b) There may be moderation of Internal Assessment marks/End Semester marks as and when necessary.
 - c) The marks of CIA examinations obtained by the candidate shall be carried over for declaring any result.
 - d) A candidate who fails or does not appear in one or more courses of any end semester examinations up to Sixth Semester shall be provisionally promoted to the next higher semester with the failed course as carry over course(s). Such candidates will be eligible to appear in the carry over course in the next regular examinations of those courses.
 - e) The Controller of Examinations shall declare the results of the Examinations and issue Grade-sheets.
 - f) The first rank holder of a programme shall be decided on the basis of the CGPA. However, the Overall Weighted Percentage of Marks (OWPM) of a candidate shall be considered in case of tie in CGPA.

12. Grading System

2. Grading System

The absolute grading system shall be applied in evaluating the performance of the students. The following scale of grading system shall be applied to indicate the performances of students in terms of the following scale of grading system shall be applied to indicate the performances of students in terms of the following scale of grading system shall be applied to indicate the performances of students in terms of the following scale of grading system shall be applied to indicate the performances of students in terms of the following scale of grading system shall be applied to indicate the performances of students in terms of the following scale of grading system shall be applied to indicate the performances of students in terms of the following scale of grading system shall be applied to indicate the performances of students in terms of the following scale of grading system shall be applied to indicate the performances of students in terms of the following scale of grading system shall be applied to indicate the performances of students in terms of the following scale of grading system shall be applied to indicate the performance of the following states of the following states of the following states of the following system shall be applied to indicate the performance of the following states of the fol

letter grade and grade points as given below: d grade points as given self grade : (Performance in a course/paper)

RANGE OF MARKS	GRADE POINTS	GRADE	DESCRIPTION
(In percent) 90 - 100	9.0 - 10.0	О	OUTSTANDING
80 - 89	8.0 - 8.9	D+	EXCELLENT
75 - 79	7.5 - 7.9	D	DISTINCTION
70 – 74	7.0 - 7.4	A+	VERY GOOD
60 – 69	6.0 - 6.9	A	GOOD
50 – 59	5.0 - 5.9	В	AVERAGE
40 – 49	4.0 - 4.9	C#	SATISFACTORY
00 – 39	0.0	U	RE-APPEAR
ABSENT	0.0	U	ABSENT

Reappearance is necessary for those who score below 50% Marks in PG **;

Reappearance is necessary for those who score below 40% Marks in UG*;

only applicable for UG programs

Grade Point Average (GPA):

Grade point average (GPA) is calculated for each part taking into account of all the courses studied under each part. Calculation of grade point average semester -wise and part -wise is as follows: Sum of the multiplication of grade points by the credits of the courses

Sum of the credits of the courses in a semester

∑(CiGi) ∑Ci

Where Ci = Credit earned for course i in any semester. Gi=Grade points obtained for course i in any semester. Classification of Successful Candidates (Overall):

GRADE	CLASSIFICATION OF FINAL RESULT
O+	and the second
О	First Class - Exemplary *
D++	
D+	First Class with Distinction *
D	
A++	
A+	- First Class
A	- 1 1133 31433
B+	
В	Second Class
C+ #	
C #	- Third Class
U	Re-appear
	O+ O D++ D+ D A++ A+ B C+# C#

[&]quot;*" The candidates who have passed in the first appearance and within the prescribed semester of the Programme (Major, Allied, Inter Departmental and Elective Course alone) are eligible. "#" Only applicable to U.G. Programme

Cumulative Grade Point Average (CGPA): For the entire program CGPA is calculated in the following manner:

CGPA =	Sum of the multiplication of grade points by the credits of the courses of entire program under each part	me
	Sum of the Credits of the Courses of the entire programme under each part	

∑n∑iCniG ni CGPA =----

 $\sum n \sum i C_{ni}$

In order to get through the examination, each student has to earn the minimum marks prescribed in the internal (wherever applicable) and external examinations in each of the theory course, practical course and project viva.

Normally, the ratio between internal and external marks is 50:50. There is no passing minimum for internal component. The following are the minimum percentage and marks for passing of each course, at UG and PG levels for external and aggregate is as follows:

			Passing N	linin um l	pos in Percent
S.No		Program	External (50)	121	Aggregate (LAP)
1		UG Degree	40% (20)	Suc.	49% (40)
2	120 mg	PG Degree	50% (25)	1 3	50% (50)
				1	1/h

13. Ranking: Rank holders of a programme shall be decided on the basis of the CGPA. A candidate who decided on the first attempt within the minutes of the course passing all the examinations in the first attempt within the minutes. qualifies the UG degree course passing all the examinations in the first attempt within the minimum qualifies the UG degree course passing an the course and secures of study from the date of admission to the course and secures period of prescribed for the course of study from the date of admission to the course and secures period of prescribed for the course and such ranking shall be confined to 10 % of the total number of the course and such ranking shall be confined to 10 % of the total number of the course and such ranking shall be confined to 10 % of the total number of the course and secures period of the course period of th period of prescribed for the course of study from the case period of prescribed for the course of study from the class shall be eligible for ranking and such ranking shall be confined to 10 % of the total number of class shall be eligible for ranking and such ranking shall be confined to 10 % of the total number of class shall be eligible for ranking and such ranking shall be confined to 10 % of the total number of class shall be eligible for ranking and such ranking shall be confined to 10 % of the total number of class shall be eligible for ranking and such ranking shall be confined to 10 % of the total number of class shall be eligible for ranking and such ranking shall be confined to 10 % of the total number of class shall be eligible for ranking and such ranking shall be confined to 10 % of the total number of class shall be eligible for ranking and such ranking shall be confined to 10 % of the total number of class shall be eligible for ranking and such ranking shall be confined to 10 % of the total number of class shall be eligible for ranking and such ranking shall be confined to 10 % of the total number of class shall be eligible for ranking and such ranking shall be confined to 10 % of the total number of class shall be eligible for ranking shall be confined to 10 % of the total number of class shall be eligible for ranking shall be confined to 10 % of the total number of class shall be eligible for ranking shall class shall be eligible for ranking and such ranking similar to a maximum of 10 ranks. Results of the candidates qualified in that particular branch of study, subject to a maximum of 10 ranks. Results of the armone to a Arrears Examinations shall not be counted for the armone to a study of the study. candidates qualified in that particular branch of study, such candidates appeared in the improvement or Arrears Examinations shall not be counted for the award of

14. Rules for Admission on Transfer from other Colleges:

- (a) Under Bharathiyar University guidelines, the admission on transfer of students from other institutions shall be allowed. However, such transfer shall be permissible provided that
 - i. there is a vacancy in the respective program of study in the Institution where the transfer is
 - ii. both the institutions conduct the same degree programmes under the CBCS.
 - iii. the course structure along with the nomenclature of the courses are similar between the tw_0
- (b) In fulfillment of the conditions as laid down in clause 13(a), a candidate may be allowed to get admission on transfer from other college on the production of transfer certificate from Bharathiyar University, Previous semester markstatements, , etc. not later than 1 (one) month from the commencement of the classes of the semester concerned.
 - i. The marks obtained in the courses will be converted and grades will be assigned as per the
 - ii. The transfer students are eligible for classification.
 - iii. The transfer students are not eligible for Ranking, Prizes and Medals
- 15. Conferment of the Degree: No candidate shall be eligible for conferment of the Degree unless he / she
 - has undergone the prescribed course of study for a period of not less than six semesters and has passed the examinations as have been prescribed therefor.
 - ii. has completed all the components prescribed under Parts I to Part V in the CBCS pattern to earn 140
 - iii. has successfully completed the prescribed Field Work/ Institutional Training (if any) as evidenced



REGULATIONS ON MOOC PREAMBLE

National Programme on Technology Enhanced Learning (NPTEL) is a joint venture of the IITs and IISc, funded by the Ministry of Education (MoE) Government of India, and was launched in 2003. Initially started as a project to take quality education to all corners of the country, NPTEL now offers courses for certification every semester in almost all the disciplines. NPTEL is a National Coordinator for Engineering courses (UG and PG) under SWAYAM, the National MOOCs portal. NPTEL also offers courses in Humanities andManagement subjects as the NPTEL partner institutes do have these departments. It offers the the courses in online mode which is instructor-lead and self-paced learning environment.

Study Webs of Active-Learning for Young Aspiring Minds (SWAYAM) has emerged as one of the World's biggest Massive Open Online Courses (MOOCs) integrated platform of online courses, covering subjects from high school to higher education including Skill-based courses to ensure that every student benefits from learning material through ICT. There are a total number of 7,041 online courses on SWAYAM platform out of which 6,296 courses are credit courses and the remaining 745 courses are non-credit courses. University Grants Commission (UGC) vide Gazette Notification dated 25th March, 2021 has notified in the UGC (Credit Framework for online Learning courses through SWAYAM) Regulations,2021which facilitates an Institution to allow up to 40% of the total courses being offered by any higher education institution in a particular programme in any semester throughonline learning courses offered on SWAYAM platform. With this, the students studying in conventional Institutes / colleges can transfer the credits earned through the SWAYAM Courses into their academic records.

Sree Saraswathi Thyagaraja College, Pollachi is continuously taking part in promoting quality education as a higher education institution. The faculty members of the institution are also encouraged to complete the course in SWAYAM portal. With reference to the UGC notification, it has framed the regulations for credit transfer in order to encourage the students to undergo and learn the courses through NPTEL-SWAYAM portal.

The following MOOCs regulations would come into the force for the students admitted in the year 2022-23 and onwards.

- All Under Graduate (UG) and Post Graduate (PG) students are encouraged to complete two MOOCs [SWAYAM/NPTEL/NSDC] in their UG before completing the fifth semester and likewise two MOOCs [SWAYAM/NPTEL/NSDC] in PG before completing the third semester.
- The MOOCs, selected by the student from SWAYAM /NPTEL/NSDC, should not be a course that have been already given in their respective curriculum/syllabus.
- The UG & PG students who do not have entrepreneurship related course in their syllabus should choose one MOOC related to entrepreneurship out of two MOOCs;
- The institute is transferring the equivalent credit earned through [SWAYAM/NPTEL/NSDC] to the students on receipt of MOOCs completion certificate and these marks/credits shall be incorporated under extra credit course in the overall marksheet of the student.

- The institution will allot a Single Point of Contact (SPoC) who will provide the list of courses offered in the NPTEL/SWAYAM/NSDC platform in the First / Second / Third/ Fourth / Fifth semester for UG and similarly the list of courses offered in the NPTEL/SWAYAM/NSDC platform in the First / Second / Third semester for PG.
- A mentor will be allotted based on the domain areas of the students to guide, assist and track the status of progress.
- As per the guidelines provided by the Academic Council, an 8 weeks course can be considered for 2 credit course and a 12 weeks course can be considered for 3 credit course.
- Based on this, the student should complete 2 MOOCs [each of 8 weeks duration] and earn in a total of 4 credits [2 credits per MOOC].
- The actual marks scored by the student will be taken as it is, in order to incorporate thescore in the mark statement, if he/she successfully obtained the certification through MOOC.
- he following table describes the certification grade, equivalent marks and the further step(s) required for the student:

Assignment Status	Certification Status	Equivalent Mark	Further Step
Submitted	Elite+Gold	Actual Score by NPTEL	Not required
Submitted	Elite+Silver	Actual Score by NPTEL	Not required
Submitted	Elite	Actual Score by NPTEL	Not required
Submitted	Completed		Not required
Submitted	Not Completed		The student should attend the test in the institute
Not Completed	Not obtained		The student should attend the test in the institute

- If a student has successfully completed the course in NPTEL/SWAYAM/NSDC, then the marks obtained and the appropriate credits will be informed by the SPoC to the Office of the Controller of Examinations (CoE). The marks and its corresponding grade may change as per the CBCS guidelines and regulations of the corresponding programme.
- If any student opts for more than the required number of MOOC, it will be considered as additional credit, and it will not be considered for calculating the CGPA.
- If the student fails in the MOOC examination or the student did not appear for the MOOC examination, there is an alternative option for the student to complete the MOOC through the examination conducted by the college similar to that of MOOCs;

In such case, the student needs to pay the MOOC exam fee at the college and he will be allowed to take up a 100 MCO test at the college lab; the results of this online test will be taken up by the COE section for the

1.1 JUN 2022

REGULATIONS ON CREDIT TRANSFER PREAMBLE

National Programme on Technology Enhanced Learning (NPTEL) is a joint venture of the IITs and IISc, funded by the Ministry of Education (MoE) Government of India, and was launched in 2003. Initially started as a project to take quality education to all corners of the country, NPTEL now offers courses for certification every semester in almost all the disciplines. NPTEL is a National Coordinator for Engineering courses (UG and PG) under SWAYAM, the National MOOCs portal. NPTEL also offers courses in Humanities andManagement subjects as the NPTEL partner institutes do have these departments. It offers the courses in online mode which is instructor-lead and self-paced learning environment.

Study Webs of Active-Learning for Young Aspiring Minds (SWAYAM) has emerged as one of the World's biggest Massive Open Online Courses (MOOCs) integrated platform of online courses, covering subjects from high school to higher education including Skill-based courses to ensure that every student benefits from learning material through ICT. There are a total number of 7,041 online courses on SWAYAM platform out of which 6,296 courses are credit courses and the remaining 745 courses are non-credit courses. University Grants Commission (UGC) vide Gazette Notification dated 25th March, 2021 has notified in the UGC (Credit Framework for online Learning courses through SWAYAM) Regulations,2021which facilitates an Institution to allow up to 40% of the total courses being offered by any higher education institution in a particular programme in any semester throughonline learning courses offered on SWAYAM platform. With this, the students studying in conventional Institutes / colleges can transfer the credits earned through the SWAYAM Courses into their academic records.

Sree Saraswathi Thyagaraja College, Pollachi is continuously taking part in promoting quality education as a higher education institution. The faculty members of the institution are also encouraged to complete the course in SWAYAM portal. With reference to the UGC notification, it has framed the regulations for credit transfer in order to encourage the studentsto undergo and learn the courses through NPTEL–SWAYAM portal. The following credit transfer regulations would come into the force for the students admitted in the year 2022-23 and onwards.

- The possibility of Credit transfer has been provided for PG students only.
- Apart from completing 2 MOOCs as extra credit courses, the students are given this option of Credit transfer also;
- For credit transfer, the courses can be selected from NPTEL/SWAYAM/NSDC with the prior approval of the Head of the Department, Dean or Director and the Controller of Examination.
- The institution will allot a Single Point of Contact (SPoC) who will provide the list of courses [with 3 credits] offered in the NPTEL/SWAYAM/NSDC platform in the First/ Second / Third semester that can be registered by the student under credit transfer instead of the course that the student has to study in the Fourth semester [preferably elective course with 3 credits]. This process will enable the student to register for the MOOC well in advance.
- At least 80 percent of the content of the syllabus from NPTEL SWAYAM/NSDC should n with the approved elective course contents in IV Semester.

- A mentor will be allotted based on the domain areas of the students to guide, assist andtrack the
- status of the progress. status of the progress. As per the guidelines provided by the Academic Council, a 12 weeks course can be considered for 3
- credit course. The actual marks scored by the student will be taken as it is, in order to provide the score in the
- mark statement, if he/she successfully obtains the certification through MOOC. If a student has successfully completed the course in NPTEL/SWAYAM/NSDC, then the marks
- obtained and the appropriate credits will be informed by the SPoC to the Office of the Controller of Examinations (CoE). The marks and its corresponding grade may change as per the CBCS guidelines and regulations of the corresponding programme.
- If the student is not able to complete the MOOCs for credit transfer purpose before third semester, then the student can proceed to study the course offered in IV Semester.
- An exclusive monitoring committee will be constituted to supervise the 80% syllabus content matching and ensure the smooth conduct of the credit transfer process. The committee will resolve any issues that may arise in the implementation of the guidelines and regulations from-time-to-time. The committee will have the following composition:
- The Principal as the Chair Person;
- Single Point of Contact (SPoC) as a Member;
- Controller of Examinations as Member Secretary;
- One Member from the School of Computing Science;
- One Member from the School of Commerce;
- One Member from the School of Management Studies;
- One Member from Humanities and Social Studies (Consist of Tamil, English, Mathematics,



Curriculum Framework with Choice Based Credit System (CBCS) and Syllabus for Outcome Based Education (OBE) in Bachelor of Science (Artificial Intelligence and Machine Learning) degree programme for the students admitted from the academic year 2022 – 23 onwards

The Choice Based Credit System (CBCS) preserves the identity, autonomy and uniqueness of every programme and reinforce their efforts to be student centric in curriculum designing and skill imparting.

Choice Based Credit System (CBCS): Choice based credit system (CBCS), provides a learning platform wherein the student has the flexibility to choose their course from a list of electives, core, allied, non-major courses, value-based courses, and skill-based courses. This is a student-centric approach to learning or acquiring higher education. The curriculum with CBCS aims to achieve and accomplish the students experience their choice of courses and credits for their horizontal and vertical mobility

Outcome Based Education:

"Outcome-Based Education" (OBE) is considered as a student-centered instruction model that focuses on measuring student performance through outcomes. Outcomes include knowledge, skills and attitudes. In the OBE model, the required knowledge and skill sets for a particular degree is predetermined and the students are evaluated for all the required parameters (Outcomes) during the course of the program.

Part – I: Languages: Part – 1 comprises of category namely Tamil/Hindi/Malayalam/French

Part – II: English: Part – 2 comprises of the category namely English

Part – III: Core Courses: A set of major papers that include Theory, Practical, Allied, Core Electives, Project and Internship in the major field of study selected by the student. Core courses are mandatory in nature.

Part – IV: Non - Major Electives (NME): A set of non – major elective courses are offered as choices of the students, outside of their major discipline. The courses other than the core and allied shall be opted by the students as Non – Major Elective.

Value Based Courses (VBC): Courses of cross-cutting issues relevant to the current pressing concerns both nationally and internationally such as gender, environment and sustainability, human values and professional ethics, development of creative and divergent competencies.

Skill Based Courses (SBC): The courses offered as skill - based courses under Part IV of the programme is aimed at imparting Advanced Skill of the programme. This comprises of four courses from 3rd to 6th semesters. Massive Open Online Courses (MOOC): According to the guidelines of UGC, the students are encouraged to avail this option of enriching by enrolling themselves in the

MOOC provided by various portals such as SWAYAM, NPTEL, Coursera, etc. As per University Grants Commission (UGC) notification published in the gazette of India about UGC (Creat Framework for Online Learning Courses through SWAYAM) Regulation, 2016 on 19th July 2016, The Massive Open Online Course (MOOC) through online portal is compulsory. The institute is transferring the equivalent credit earned through SWAYAM on receipt of MOOCs completion certificate and shall incorporate these marks/credits in the overall mark sheet of the student.

Part – V: Extension Activities: Students shall be actively participated in the extension activities such a National Service Scheme (NSS), Youth Red Cross (YRC). Sports, and Red Ribbon Club (RRC). The extension activities are must for each student to take part in at-least in any one of these activities for the fulfilment of the degree.

B.Sc (AI & ML) 2022-2023 Summary of Courses Pattern and Credit Distribution in Choice Based Credit System

Part	Curriculum Structure	No.ofCourses	Credits to be earned
1	Languages	2	6
11	English	2	6
	Core (Major) Courses	21	82
Ш	Allied Courses	4	18
	Core Electives	3	12
	Non-Major Electives		12
1	(NME)	2	4
\mathbf{V}^{i}	Value Based Courses	1	
1	(VBC) A Code Marie Courses	2	4
	Skill Based Courses (SBC)	4	8
	Extension Activities	1	
otal 💸	10.4 2022	-	Grade
	G.MY	41	140
tra Credit C	TIVIOUC	2	
,	0		4
ra Credit Co	Professional Factor	2	
	Professional English	**************************************	6
a Credit Co	urse - Di		, and the second
	Placement	4	
nd Total			4
nu Totai		49	
		77	154

Scheme of Examination (Student admitted from 2022-23 onwards)

	Scheme of Examination (Student admitted from 2022-23 onwards) Semester I										
	Part	Course Type	Course Code	Name of the course	_	Period per Week L P T			ESI	E Tota	al Credi
I	Language-1	Theory	22TAMIL10 22MAL1L10 22HIN1L10 22FRE1L10	Language-I (Tamil/Malayalam/Hindi /French)	i 3	-	1	50	50	100	3
II	English .	Theory	22GEN1L10	Communicative English- I	3	-	1	50	50	100	3
III	Core 1	Theory	22BCA1C10	Digital Fundamentals and Computer Organization	3	-	1	50	50	100	4
III	Core 2	Theory	22BAM1C20	Problem Solving And Programming In C	4	-	-	50	50	100	4
III	Core 3	Practica l	22BAM1C30	Programming In C Lab	-	4	-	50	50	100	3
III	Allied 1	Theory	22BMAGAM0	Fundamentals Of Statistics	5	-	-	50	50	100	4
١٧	VBC1	Theory	22DHE1V10	Value Education-1 Environment Science	2	-	-	50	-	50	2
	ECC .	Theory	22GENIZIO	Professional English for physical sciences – I	3	-	-	50	50	100	3*
		(1 7)	<u> 2023</u>	Total for Semester – I		30		400	350	750	23+3*
		Suter	G.MV	Semester II							
I	Language -2	Theory	22TAM2L20 22MAL2L20 22HIN2L20 22FRE2L20	Language- II(Tamil/Malayalam/Hin di/French)	3	-	1	50	50	100	3
II	English	Theory	22GFN2L20 L	Communicative English-II	3	-	1	50	50	100	3
Ш	Core 4	Theory	22BAM2C10	Artificial Intelligence and Machine Learning Fundamentals	3	-	1	50	50	100	4
III	Core 5	Theory	77RDA7(70 1	Object Oriented Programming with Java	3	-	1 .	50	50	100	4



											3
	II Core 6	Practica 1	22BDA2C30	Object Oriented Programming Lab	-	3	-	50	50	100	4
-	12	Theory	22BMAGA Q0	Mathematics for Machine Learning	5	-	2-	50	50	100	4
IV		Theory	22DHE2V20	Value Education – 2Value Education And Human Rights	2	-	-	50	-	50	2
	ECC	Theory	22GEN2Z10	Professional English for Physical Sciences II	3	-	-	50	50	100	1*
-	ECC		100	Placement	1 ,	-	-	50	-	50	23+4*
				Total for Semester – II		30	Ŀ	450	350	800	2314
511		17 JU	my)	Semester III	,				- * -		
111	Part	Course	Course Code	Name of the course		Perio r We P		CIA	ESE	Tota I	Credit
Iv'	Language -3	Theory	23TAM3L30 23MAL3L30 23HIN3L30 23FRE3L30	Language- III(Tamil/Malayalam/Hi ndi/French)	4	-	-	50	50	100	3
II	English	Theory	2 3 GEN3L30	English Poper Til	4	-	-	50	50	100	3
III	Core 7	Theory	22BAM3C10	Introduction to Database Management System	4	-	-	50	50	100	4
III	Core 8	Theory	22BAM3C20	Python Programming	4	-	-	50	50	100	4
III	Core 9	Practica	22BAM3C40	Python Programming Lab		3	-	50	50	100	3
III	Allied 3	Theory	22BAM3A10	Data Structures and Algorithms	4	-	-	50	50	100	4
IV	SBC1	Practica	22BAM3S10	Database Management System Lab	-	3	-	3 0	45	795	2
IV -	NME1	Theory	22BAM3N10	NME Course -1	2	-	-	-	50	50	2
	ECC	11.001		NPTEL	-	-	-	-	-	# · ·	2*
	ECC		22CTP3P10	COMMUNICATION SKILLS AND PERSONALITY DEVELOPMENT	2	-	-	50	All described	50	1*
		M - s		Total for Semester – III		30	, . H V	300	395	777	25+3*
	100 - 12,914. 27	4 1 1 1 1 1						G.M	Mr.	No.	

				Semester IV							
	Language	-4 Theo	23MAL4L4 23HIN4L40	O Language- III(Tamil/Malayalam/H	i	4		- 50	50		
	English	Theor	2 3 FRE4L40 2 3 GEN4L40			1	+	-	1 30	100	3
11	Core 10	Theor	y 22BAM4C20	R Programming	~			30	50	100	3
111	Core 11	Practic	22BAM4C30	R Programming with	+	+	-	- 30	50	100	4
111	Core12	Theor	y 22BAM4C40	Data Visualization Lab Machine Learning	+	+	-	50	50	100	4
! 	Allied 4.	Theory		Techniques	4		-	50	50	100	4
III	SBC2	Practic		Computational	4	-	1-	50	50	100	4
IV —	NME2	Theor		Intelligence Lab	-	2		30	45	75	2
IV	ECC		,	NME Course – 2 NPTEL	2	-	-	-	50	50	2
_	- 22		2207714710	PERSONALITY	+	-	+	-	-	-	2*
	ECC ·		22CTP4P10	DEVELOPMENT SKILLS & PARETO- II	2	-	-	50	- "	50	. 1*
		<u> </u>		Total for Semester – IV		30		380	395	775	26+3*
				Semester V					. <u>375</u>	/73	20,5
II	Core 13	Theory	22BAM5C10	Natural Language Processing	4	-	1	50	50	100	5
	Core 14 ·	Practica 1	22BAM5C20	Natural Language Processing Lab	-	5	-	50	50	100	4
+	Core 15	Theory	22BAM5C30	Deep Learning	4	-	1	50	50	100	4
	Core 16	Project	22BAM5C40	Project Work Lab	-	4	-	50	50	100	2
	CE1	Theory	22BAM5E10	Core Elective – I	5	-	-	50	50	100	4
	SBC3	Practica I	22BAM5S30	Deep Learning Lab	-	4	-	30	45	75	2
	EAC			Extension Activity – National Service Scheme/ Sports/NCC	(Grad	e	-	-	-	•
E	CC	,	05 11 6	Placement	2	-	-	50	-	50	1*

17 JUN 2023

)

				Total for Semester – V		30		330	295	625	21+1*
				Semester VI				G	W. 1.		
	Part	Course Type	Course Code	Name of the course		Perio		CIA	ESE	Tota I	Credit
	Core 17	Theory	22BAM6C10	Computer Vision	5	-	1	50	50	100	4
111	Core 18	Practica 1	22BAM6C20	Computer Vision lab	-	5	-	50	50	100	4
III	Core 19.	Theory	22BAM6C30	Internet of Things	4	-	1	50	50	100	4
111	CE2	Theory	22BAM6E20	Core Elective – II	5	-	-	50	50	100	4
III	CE3	Theory	22BAM6E30	Core Elective – III	5	-	-	50	50	100	4
IV	SBC4	Practica 1	22BAM6S40	Internet of Things Lab	-	4	-	3 0	45	75	2
-				Total for Semester – VI		30		280	295	575	22
	•			Total		180		2/20	1980	4100	140+ 14*
		L						0	MM		

Students from B.Sc (AI & ML) to choose any one of the course from the following list of Languages courses offered:

List of Part - 1 Language Courses

S No	Semester	Course Type	Course Code	Course Name
1	I	Theory	22TAM1L10	Tamil – I
2	I	Theory	22HIN1L10	Hindi – I
3	I	Theory	22MAL1L10	Malayalam – I
4	I	Theory	22FRE1L10	French – I
5	II	Theory	22TAM2L20	Tamil – II
6	II	Theory	22HIN2L20	Hindi – II
7	II	Theory	22MAL2L20	Malayalam – II
8	II	Theory	22FRE2L20	French – II
9	III	Theory	21TAM3L30	Tamil – III
10	III	Theory	21HIN3L30	Hindi – III
11	III	Theory	21MAL3L30	Malayalam – III
12	III	Theory	21FRE3L30	French – III
1 +3	III	Theory	22TAM4L40	Tamil – IV
14	Ш	Theory	21HIN4L40	Hindi – IV
. 15 ·	III 8 Y	Theory	21MAL4L40	Malayalam – IV
16	S III S	Theory 6	21FRE4L40	French - IV





List of Allied Courses (CBCS)

List						
	Type of course	Course Code	Course Name			
S.No. Semester	Турсого	Allied –				
T	Theory	22BMAGAM0	Fundamentals Of Statistics			
1 1		Allied – 1	II			
1 II	Theory	22BMAGAD0	Optimization Techniques			
1 11		Allied – Il				
1 111	Theory	22BAM3A10	Data Structures and Algorithms			
Allied – IV						
1 IV	Theory	22BAM4A20	Cloud Computing			
List of Value Base	d Courses	·				

List of Value Based Courses

Course Name	Course Code	Semester	S.No.
Environmental Sciences	22DHE1V10	I	1
Value Education and Human Rights	22DHE2V20	II	2
irses (CBCS)	st of Core Elective Cou	Lis	

List of Core Elective Courses (CBCS)

S.No.	Semester	Elective	Type of course	Course Code	Course Name
			Elective	es of B.Sc. (AI&M	L)
88440	Y V	I	Theory	22BAM5E10	Human Computer
80	100				Interaction
2	VI \	// II	Theory	22BAM6E20	AI for Business and intelli
7 1111	2020				marketing
3	2023/1	III	Theory	22BAM6E20	AI and Robotics
·GM	M	1	Elective	es of B.Sc. (DSA)	10001105
1 47		. I	Theory	21BDA5EA0	Dua 1' (
10.20 g	olive VI	II	Theory	21BDA6EA0	Predictive Analytics
3	VI	III	Theory	21BDA6EB0	Web Analytics
<u> </u>					Social Media Analytics
1			Electives	of B.Sc. (DCFS)	
1	V	I	Theory	22DECCE A C	
2 .	VI	II	Theory	22000	Cyber Attack and Cyber Warfa
3.	VI	III		DODECCEDA	
Comme			List of Skill B	ased Con	Cloud Security and Forensics

List of Skill Based Cours

S.No.	Semester	Type of	t of Skill Based Co	Ourses	o de l'orensies
1	III	3 Po or course	Comme		<u> </u>
2		Practical	22BAM3S10	Course Name	== /1 =
2	TV.	Practical	220	Dalabase Manage	Tings.
3	V		22BAM4S20	Computational Intellige	System Lab
г			22BAM5S30	Deep Learning Intellige	ence I
		^	Y 1,	P Learning I at	Lab -



List of Core Courses Type of Core Course Code Semester Course Name No. course Digital Fundamentals and Computer Core 1 Theory 22BCA1C10 I Organization Core 2 Ī Theory 22BAM1C10 Problem Solving And Programming In C Core 3 Practical I 22BAM1C30 Programming In C Lab П Theory Artificial Intelligence and Machine Learning Core 4 22BAM2C10 **Fundamentals** Core 5 Theory H 22BDA2C20 Object Oriented Programming with Java 11 Core 6 Practical 22BDA2C30 Object Oriented Programming Lab Ш Core7 Theory Introduction to Database Management System 22BAM3C10 Core8 Theory III 22BAM3C20 **Python Programming** Core9 Ш Theory 22BAM3C40 Python Programming Lab Ш Core10 Practical 22BAM4C20 R Programming IV Core 11 Theory 22BAM4C10 **Cloud Computing** ΙV Core12 Theory R Programming 22BAM4C20 R Programming with Data Visualization Lab ΙV Core13 Practical 22BAM4C30 IV Core14 Theory Machine Learning Techniques 22BAM4C40 V Natural Language Processing Core15 Theory 22BAM5C10 Natural Language Processing Lab V Practical Core16 22BAM5C20 V Deep Learning Core17 Theory 22BAM5C30 Project Work Lab V Core18 Project 22BAM5C40 Computer Vision Core19 Theory 22BAM6C10 VI Computer Vision lab Core20 Practical 22BAM6C20 VI Internet of Things 22BAM6C30 Core 21 Theory VI List of Non Major Electives: Couse Name Course Code Numerical Ability - I 22BMA3N10 Verbal Reasoning ١ 22BMA3N20 Numerical Ability - II 22BMA4N10 Non-Verbal Reasoning 22BMA4N20 Internet Programming-Lab 1 22BCS3N10 Animation Technique- Lab 1(Flash) 22BCS3N20 2 Basic Programming in C 22BCS4N10 Animation Techniques- Lab (3ds- Max) 22BCS4N20 OfficeAutomation for Documentation L. 5 22BIT3N10 Multimedia Lab I 22BIT3N20 Office Automation Lab 22BIT4N10 Multimedia Lab II 22BIT4N20 Basics of Excel 22BCA3N10

22BAM6S40

Internet of Things Lab

Practical

VI

	22BCA3N20	Digital Publishing Tools-I
	22BCA4N10	Advances in Excel
	22BCA4N10 22BCA4N20	Digital Publishing Tools-II
jė.		Principles of Computer Security
¥.	22BFS3N10	Cyber forensics
	5 22BFS4N10	
	22BFS3N20	Information Security
	22BFS4N20	Cyberlaw
	22BDA3N10	Data Visualization using Tableau - I
	/_ 22BDA3N20	R Programming for Beginners - I
	6 22BDA4N10	Data Visualization using Tableau - II
	22BDA4N20	R Programming for Beginners - II
	22BAM3N10	Basic Python Programming
	7 22BAM3N20	Basic Power BI Lab
	22BAM4N10	Advance Python Programming Lab
	22BAM4N20	Advanced Power BI Lab
14	22BCH3N10	Chemistry in everyday life -1
	8 22BCH4N20	Chemistry for everyday life –II
	22BPY3NA0	PsyLifeSkills
	9 22BPY3NB0	Interpersonal Relationships kills
	22BPY4NA0	PsyLifeHacks
	22BPY4NB0	Problemsolvingandcreativity With Sinth State of the Control of th
1	O 22BEN3N10	Writing Skills for Media
1	22BEN4N10	Professional - 1.T. 1 : 1
1	22BCM3N10	Professional and Technical Writing
1	22BCM4N20	Entrepreneurship Practice ID - 1:
12	22BBC3N10	PracticalBanking Accounting St. S.
12	22BBC4N20	Accounting Software-I
13	22BPA3N10	Accounting Software-II
17	22BPA4N20	PersonalFinance Basicsoft Living
14	22BAB3N10	BasicsofStockMarket Agricultural Market
17		Agricultural Marketing Digital Marketing
15	22BBI3N10	Digital Warketing DigitalBanking
	22DB14N2()	Flementa of V
16	22BAS3N10	Elements of Insurance Information S
	22BAS4N20	Information Security Office Administrance
17	22BBA3N10 22BBA4N10	Office Administration Management G
	A STATE OF THE PARTY OF THE PAR	Management Concepts Training and development
	A By Acade	and development

Note: The Course Yoga" is offered as Capability Enhancement Course. Certificate with grade

17 JUN 2023

Hoo