



# SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA

(Deemed to be University U/S 3 of UGC Act 1956) (Accredited with "A" Grade by NAAC)  
Enathur, Kanchipuram - 631561

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**CURRICULUM AND SYLLABUS FOR FULL TIME**

**B.E. (Hons.) Computer Science and Engineering  
with Specialization in Artificial Intelligence and  
Data Science Integrated with IBM**

**(Applicable for students admitted from 2026-2027 onwards)**

**B.E. (Hons.) Computer Science and Engineering with  
Specialization in Artificial Intelligence and Data Science**

These regulations are applicable to the students admitted from the AY 2026-27 Onwards.

**CHOICE BASED CREDIT SYSTEM FOR B.E. (HONS.) CSE with AIDS FULL-TIME  
PROGRAMME CREDITS**

**Theory courses:** Courses with 4/3 credits will be assigned 3 Lectures and 2/1 Tutorial hours per week.

**Practical courses:** Courses with 2 credits will be assigned 4 hours of lab/practical work per week

From semester I to VII, the honors. Credits distribution as follows

Sl.No	Semester	Credits
1.	I	3
2.	II	3
3.	III	3
4.	IV	3
5.	V	3
6.	VI	3
7.	VII	1
<b>Total</b>		<b>19</b>

For the award of the Hons./Minor degree, a student has to earn a minimum of **19** credits.

**DURATION OF THE PROGRAMME**

A student is normally expected to complete B.E. (HONS.) CSE with AIDS programme in four years and in any case, not more than seven years from the time of admission.

**REGISTRATION FOR COURSES**

A newly admitted student will automatically be registered for all the courses prescribed for the first year, without any option.

All other students shall submit a completed registration form indicating the list of courses intended to be credited during the next semester. This registration will be done a week before the last working day of the current semester. Late registration, with the approval of the Dean on the recommendation of the Head of the Department, along with a late fee will be done, up to the last working day.

Registration for the project work shall be done only for the final semester.

**ASSESSMENT**

The break-up of assessment and examination marks for theory subjects is as follows.

First Assessment Test	:	15 Marks
Second Assessment Test	:	15 Marks
Assignment & Attendance (seminars, group discussion)	:	10 Marks
Total (Internal Marks)	:	40 Marks

End semester Examination (External Marks)	:	60 Marks
Total (Internal + External)	:	100 Marks

The break-up of the assessment and examination marks for practical is as follows.

Observations	:	15 Marks
Model Test	:	15 Marks
Record book & Attendance	:	10 Marks
Total (Internal Marks)	:	40 Marks
End semester Examination (External Marks)	:	60 Marks
Total (Internal + External)	:	100 Marks

The project work will be assessed for 40 marks by a committee consisting of the Guide and the Head of the Department. The Head of the Department shall be the Chairman. 60 marks are allotted for the project viva voce examination at the end of the semester.

#### **WITHDRAWAL FROM A COURSE**

A student can withdraw from the course at any time before a date fixed by the Head of the Department prior to the second assessment, with the approval of the Dean on the recommendation of the Head of the Department.

#### **TEMPORARY BREAK OF STUDY**

A student can take a one-time temporary break of study covering the current year/semester and/or the next semester with the approval of the Dean on the recommendation of the Head of the Department, not later than seven days after the completion of the mid-semester test. However, the student must complete the entire program within the maximum period of seven years.

#### **SUBSTITUTE ASSESMENT**

A student, who has missed, for genuine reasons accepted by the Head of the Department, one or more of the assessments of a course other than the end semester examination, may take a substitute assessment for any one of the missed assessments. The substitute assessment must be completed before the commencement of the end-semester examination.

A student who wishes to have a substitute assessment for a missed assessment must apply to the concerned faculty member within a week from the date of the missed assessment.

#### **ATTENDANCE REQUIREMENTS**

To be eligible to appear for the examination in a particular course, a student must put in a minimum of 80% of attendance in the course. However, if the attendance is 70% or above but less than 80% in any course, the authorities can permit the student to appear for the examination in the course on payment of the prescribed condonation fee.

A student who withdraws from or does not meet the minimum attendance requirement in the course must re-register for and repeat the course.

## PASSING AND DECLARATION OF EXAMINATION RESULTS

All assessments of all the courses on the absolute mark basis will be considered and passed by the results passing board in accordance with the rules of the University. Thereafter, the Controller of Examinations shall convert the marks for each course to the corresponding letter grade as follows, compute the grade point average & cumulative grade point average and prepare the grade cards.

90 to 100 marks	-	Grade 'S'
80 to 89 marks	-	Grade 'A'
70 to 79 marks	-	Grade 'B'
60 to 69 marks	-	Grade 'C'
55 to 59 marks	-	Grade 'D'
50 to 54 marks	-	Grade 'E'
less than 50 marks	-	Grade 'F'
Insufficient attendance	-	Grade 'I'
Withdrawn from the course	-	Grade 'W'

A student who obtains less than 50 marks out of 100 in the subject or less than 24 out of 60 in External exam or is absent for the examination will be awarded Grade 'F'.

A student who earns a grade of S, A, B, C, D or E for a course is declared to have successfully completed that course and earned the credits for that course. Such a course cannot be repeated by the student.

A student who obtains letter grade F in a course has to reappear for the examination in that course.

The following grade points are associated with each letter grade for calculating the grade point average.

S - 10; A-9; B-8; C-7; D-6; E-5; F-0

A student can apply for revaluation of one or more of his /her examination answer papers within a week from the date of issue of Grade sheet to the student on payment of the prescribed fee per paper. The application must be made to the Controller of Examinations with the recommendation of the Head of the Department.

After results are declared, Grade cards will be issued to the students. The Grade card will contain the list of courses registered during the year/semester, the grades scored and the grade point average (GPA) for the year/semester.

GPA is the sum of the products of the number of credits of a course with the grade point scored in that course, taken over all the courses for the Year/Semester, divided by the sum of the number of credits for all courses taken in that year/semester. CGPA is similarly calculated considering all the courses taken from the time of admission.

After successful completion of the program, the Degree will be awarded with the following classification based on CGPA:

For First Class with Distinction, the student must pass all the courses in the first attempt and obtain a CGPA of 8.25 or above.

For First Class, the student must pass within four years from the time of admission and obtain a CGPA of 6.5 or above.

For Second Class, the student must pass within seven years from the time of admission.

**B.E. (Hons.) Computer Science and Engineering with Specialization in Artificial Intelligence and Data Science**

<b>Honors Course</b>						
<b>Sl.No</b>	<b>Semester</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	I	Python Programming for Data Science	3	0	0	3
2.	II	Data Visualization with R, Watson	3	0	0	3
3.	III	Machine Learning Fundamentals	3	0	0	3
4.	IV	Design Thinking, Agile, Devops	3	0	0	3
5.	V	Predictive Modelling	3	0	0	3
6.	VI	AI Advanced programming	3	0	0	3
7.	VII	Mini Project	0	0	2	1
<b>Total</b>						<b>19</b>

# III – SEMESTER

