SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Kaikkurichi, Pudukkottai -622 303

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NAAC DOCUMENTS

Quality Indicator Frame Work

Criterion – 1

CURRICULAR ASPECTS

Submitted by

IQAC

Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Criterion 1	Curricular Aspects	100

1.1 Curricular Planning and Implementation(20)

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

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S.No	Description
1	Preface of the Course File
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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PREFACE OF THE COURSE FILE

Batch : **2019-2023**

Academic Year : **2021-2022 / EVEN**

Program : **COMPUTER SCIENCE AND ENGINEERING**

Year & Semester : **3rd Year / 6th Semester / 'A' Section**

Course Code : **CS8691** NBA Course Code: **C210**

Name of the Course : **ARTIFICIAL INTELLIGENCE**

Faculty in-charge : **Mrs.B.Kavipriya**, Assistant Professor / **CSE**

Signature of the Faculty in-charge

HoD / CSE

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
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HOD / CSE
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REVIEW OF COURSE FILE

(To be pasted on the inner side of the file-backside).(#-State Yes/No.)

S.N	Details Date:	R-I-*	R-II-*&	R-III-*&	R-IV-*&$	R-V-*&$@
1.	Preface of the course file	yes				
2.	Vision, Mission, PEOs, POs, PSOs, Blooms taxonomy	yes				
3.	Subject handlers of yesteryears					
4.	Timetable/Workload of the staff – Distribution of teaching load – Roles and Responsibilities	yes				
5.	Syllabus signed by staff & HoD	yes				
6.	Lecture Schedule signed by staff & HoD	yes				
7.	Course Committee meeting circular and minutes	yes				
8.	Identification of Curricular gap and Content Beyond the syllabus	yes				
9.	Self-study topics	yes				
10.	Previous AU Question papers	yes				
11.	Unit wise Q&A and Objective type questions	yes				
12.	Unit wise course material	yes				
13.	Assignment question paper with sample answer sheets and mark entry		yes			
14.	Tutorial question paper with key and mark entry		yes			
15.	Class test/IA test Q Paper with Key, sample answer papers and mark entry		yes			
16.	IA Test- result analysis-CAP-evidence-root cause analysis.		yes			
17.	Retest –Q paper-Attendance-marks		yes			
18.	AU Web portal entry sheet		yes			
19.	Very poor performance in first two tests-action taken.-communication to parents-evidence					
20.	Absence for two tests-action taken-communication to parents-evidence.					
21.	Indiscipline of student reported, if any					
22.	Special class/coaching class/remedial class/attendance-CAP					
23.	Conduct of Seminar, Quizzes - proof					
24.	Content beyond the syllabus - proof			yes		
25.	Student feedback on faculty			yes		
26.	Course end survey					
27.	Internal Assessment sheet			yes		
28.	AU question paper with students feedback					
29.	Discrepancy of the question paper and correspondence, if any					
30.	AU result analysis-Details of arrear students.					
31.	AU grade sheet					yes
32.	CO – PO & PSO attainment sheet					yes
	Signature of Course handling faculty	B Kavitha	B Kavitha	B Kavitha		B Kavitha
	Signature of HoD/CSE					

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DEPARTMENT OF CSE

WORKLOAD FOR EVEN SEMESTER (2021-2022)

S.NO	STAFF NAME	SUB.CODE & SUB.NAME	DEPT	YEAR / SEM	TOT. STUD	HRS.	TOT. HRS
1.	**Mr.R.Vijay**	CS8080- Information Retrieval Techniques	CSE	IV/VIII	25	6	12
		CS8811-Project Work	CSE	IV/VIII	25	6	
2.	**Ms.P.Subha**	GE8075- Intellectual Property Rights	EEE	III/VI	11	4	12
		CS8491- Computer Architecture	CSE	II/IV	24	4	
		Job Seekers	CSE, EEE, ECE & CIVIL	IV/VIII	50	4	
3.	**Mrs.G.Bhuvaneswari**	CS3251-Programming in C	CSE	I/II	31	4	10
		Programming in C Laboratory	CSE	I/II	31	3	
		CS8661-Internet Programming Laboratory (Skilled)	CSE	III/VI	23	3	
4.	**Mrs.G.Sugapriya**	GE8076-Professional Ethics in Engineering	CSE	IV/VIII	25	6	11
		CS8602- Compiler Design	CSE	III/VI	25	5	
5.	**Ms.S.Jayapratha**	CS8651- Internet Programming	CSE	III/VI	23	4	11
		CS8494- Software Engineering	CSE	II/IV	24	4	
		CS8661-Internet Programming Laboratory	CSE	III/VI	23	3	
6.	**Ms.G.Sasikala**	CS8492- Database Management Systems	CSE	II/IV	24	4	10
		CS8481 - Database Management Systems Laboratory	CSE	II/IV	24	3	
		CS8461 - Operating Systems Laboratory(Skilled)	CSE	II/IV	24	3	
7.	**Mrs.K.Priyanka**	CS8601- Mobile Computing	CSE	III/VI	23	4	11
		CS8451- Design and Analysis of Algorithms	CSE	II/IV	24	4	
		Programming in C Laboratory(Skilled)	CSE	I/II	31	3	

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S.NO	STAFF NAME	SUB.CODE & SUB.NAME	DEPT	YEAR / SEM	TOT. STUD	HRS.	TOT. HRS
8.	**Mrs.V.Yogam**	GE8075- Intellectual Property Rights	CSE	III/VI	23	4	11
		CS8493- Operating Systems	CSE	II/IV	23	4	
		CS8461 - Operating Systems Laboratory	CSE	II/IV	24	3	
9.	**Ms.K.Priya**	CS8603- Distributed Systems	CSE	III/VI	23	4	10
		CS8662- Mobile Application Development Laboratory (Skilled)	CSE	III/VI	23	3	
		CS8481 - Database Management Systems Laboratory (Skilled)	CSE	II/IV	24	3	
10.	**Ms.B.Kavipriya**	CS8691- Artificial Intelligence	CSE	III/VI	23	4	11
		CS8662- Mobile Application Development Laboratory	CSE	III/VI	23	3	
		CS8611 - Mini Project	CSE	III/VI	23	2	
		Placement Training Technical	CSE	IV/VIII	25	2	

HoD/ CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
COURSE PLAN

Subject code: CS8691	**Branch/Year/Sem:CSE/III/VI**
Subject Name: ARTIFICIAL INTELLIGENCE	**Batch:2019-2023**
Staff Name: B.Kavipriya	**Academic year:2021-2022(EVEN)**

COURSE OBJECTIVE

1. To understand the various characteristics of Intelligent agents
2. To learn the different search strategies in AI
3. To learn to represent knowledge in solving AI problems
4. To understand the different ways of designing software agents
5. To know about the various applications of AI.

TEXT BOOK:

T1: S. Russell and P. Norvig, "Artificial Intelligence: A Modern Approach, Prentice Hall, Third Edition, 2009.
T2: I. Bratko, —Prolog: Programming for Artificial Intelligence, Fourth edition, Addison-Wesley Educational Publishers Inc., 2011.

REFERENCES:

R1. M. Tim Jones, —Artificial Intelligence: A Systems Approach(Computer Science)‖, Jones and Bartlett Publishers, Inc.; First Edition, 2008

R2. Nils J. Nilsson, —The Quest for Artificial Intelligence‖, Cambridge University Press,2009.

R3. William F. Clocksin and Christopher S. Mellish,| Programming in Prolog: Using the ISO Standard‖, Fifth Edition, Springer, 2003.

R4. Gerhard Weiss, —Multi Agent Systems‖, Second Edition, MIT Press, 2013.

R5. David L. Poole and Alan K. Mackworth, —Artificial Intelligence: Foundations of Computational Agents‖, Cambridge University Press, 2010.

WEB RESOURCES

W1:http://aimaterials.blogspot.com/p/blog-page_3.html
(UNIT 1,2)
W2: https://www.slideshare.net/AfifAlMamun/artificial-intelligence-presentation-64343907
(TOPIC NO: 22,32,37,38)

TEACHING METHODOLOGIES:

- BB - BLACK BOARD
- PPT - POWER POINT PRESENTATION
- Video - Video

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CS8691	ARTIFICIAL INTELLIGENCE	L T P C 3 0 0 3

UNIT I **INTRODUCTION** **9**

Introduction–Definition – Future of Artificial Intelligence – Characteristics of Intelligent Agents–Typical Intelligent Agents – Problem Solving Approach to Typical AI problems.

UNIT II **PROBLEM SOLVING METHODS** **9**

Problem solving Methods – Search Strategies- Uninformed – Informed – Heuristics – Local Search Algorithms and Optimization Problems -Searching with Partial Observations – Constraint Satisfaction Problems – Constraint Propagation – Backtracking Search – Game Playing – Optimal Decisions in Games – Alpha – Beta Pruning – Stochastic Games

UNIT III **KNOWLEDGE REPRESENTATION** **9**

First Order Predicate Logic – Prolog Programming – Unification – Forward Chaining-Backward Chaining – Resolution – Knowledge Representation – Ontological Engineering-Categories and Objects – Events – Mental Events and Mental Objects – Reasoning Systems for Categories -Reasoning with Default Information

UNIT IV **SOFTWARE AGENTS** **9**

Architecture for Intelligent Agents – Agent communication – Negotiation and Bargaining – Argumentation among Agents – Trust and Reputation in Multi-agent systems.

UNIT V **APPLICATIONS** **9**

AI applications – Language Models – Information Retrieval- Information Extraction – Natural Language Processing – Machine Translation – Speech Recognition – Robot – Hardware –Perception – Planning – Moving

TOTAL: 45 PERIODS

Signature of the Faculty in-charge

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Topic No	Topic Name	Books For reference	Page No	Teaching Methodology	No of periods required	Cumulative periods
UNIT I	**INTRODUCTION**					**(9)**
1.	Introduction–Definition	T1	1-5	BB	2	2
2.	Future of Artificial Intelligence	T1	5-16	BB	1	3
3.	Agents and environments	T1	34-36	BB	2	5
4.	Characteristics of Intelligent Agents	T1	36-40	BB	1	6
5.	Typical Intelligent Agents	T1	40-46	PPT	2	8
6.	Problem Solving Approach to Typical AI problems	T1	64-69	BB	1	9

LEARNING OUTCOME:

At the end of unit , the students will be able to

- Determine and formulate a given A.I. problem that an Intelligent System must solve.
- Understand the intelligent agents and its types.
- Use appropriate Intelligent agent for any AI problem

UNIT II	**PROBLEM SOLVING METHODS**					**(9)**
10.	Problem solving Methods	T1	75-81	BB	1	10
11.	Search Strategies- Uninformed	T1	81-92	BB	2	12
12.	Informed- Heuristics	T1	92-102	PPT	1	13
13.	Local Search Algorithms and Optimization Problems	T1	108-120	BB	1	14
15.	Constraint Satisfaction Problems- Constraint Propagation	T1	202-208	BB	1	15
16.	Backtracking Search	T1	208-214	BB	1	16
17.	Game Playing- Optimal Decisions in Games	T1	161-163	BB	1	17
18.	Alpha – Beta Pruning – Stochastic Games	T1	167-177	BB	1	18

LEARNING OUTCOME:

At the end of unit , the students will be able to

- Use appropriate search algorithms for any AI problem
- Describe the role of heuristics and solve various types of search problems.

UNIT – III	**KNOWLEDGE EPRESENTATION**					**(9)**
19.	First Order Predicate Logic	T1	285-300	BB	1	19
20.	Prolog Programming- Unification	T1	315-325	BB	1	20
21.	Forward Chaining-Backward Chaining	T1	330-337	PPT	1	21
22.	Resolution	T1	337-345	PPT	1	22

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23.	Knowledge Representation _ Ontological Engineering	T1	437	BB	1	23
24.	Categories and Objects	T1	440-446	BB	1	24
25.	Events – Mental Events and Mental Objects	T1	446-453	BB	1	25
26.	Reasoning Systems for Categories	T1	453-458	BB	1	26
27.	Reasoning with Default Information	T1	458-462	BB	1	27

LEARNING OUTCOME:

At the end of unit , the students will be able to

- Represent a problem using first order logic
- Describe the role of heuristics and solve various types of search problems.
- Describe the categories of objects and different reasoning systems

UNIT IV	**SOFTWARE AGENTS**				**(9)**
28.	Architecture for Intelligent Agents	T1	480-483	BB	2	29
29.	Agent communication	T1	485-495	BB	2	31
30.	Negotiation and Bargaining	T1	501-510	BB	2	33
31.	Argumentation among Agents	T1	510-514	BB	1	34
32.	Trust and Reputation in Multi-agent systems.	T1	518-522	PPT	2	36
33.	Expert systems in Artificial Intelligence	W1	-	PPT	1	37

LEARNING OUTCOME:

At the end of unit , the students will be able to

- Illustrate the complications of planning and intelligent agents acting in the Real world.
- Provide the agent strategy to solve a given problem.
- Describe about different multi agent systems

UNIT V	**APPLICATIONS**				**(9)**
34.	AI applications – Language Models	T1	860-865	PPT	1	38
35.	Information Retrieval- Information Extraction	T1	867-873	PPT	2	40
36.	Natural Language Processing	T1	888-907	BB	1	41
37.	Machine Translation	T1	907-912	BB	1	42
38.	Speech Recognition	T1	912-918	PPT	1	43
39.	Robot – Hardware	T1	973-978	BB	1	44
40.	Perception – Planning	T1	978-986	BB	1	45
41	Moving	T1	997-1003	BB	1	46

LEARNING OUTCOME:

At the end of unit , the students will be able to

- **Design application s for NLP that use artificial intelligence**
- Demonstrate the fundamental concepts of machine learning
- Illustrate related algorithms in the applications of NLP and agent design.

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COURSE OUTCOME

At the end of the course, the student should be able to:

- Use appropriate search algorithms for any AI problem
- Represent a problem using first order and predicate logic
- Provide the apt agent strategy to solve a given problem
- Design software agents to solve a problem
- Design applications for NLP that use Artificial Intelligence.

CONTENT BEYOND THE SYLLABUS

Expert systems in artificial intelligence

INTERNAL ASSESSMENT DETAILS

ASSESMENT NUMBER	I	II	MODEL
TOPIC NO.(UNIT)	1, 2 Units	3,4 Units	5 Units

ASSIGNMENT DETAILS

ASSIGNMENT NUMBER	I	II	III
DATE OF SUBMISSION	31.03.2022	28.04.2022	25.05.2022

Assignment Number	Descriptive Questions/ Topics
I	Toys problem, Real world problem
II	Types of Search Problem
III	Predicate Logic

PREPARED BY

B.Kavipriya, AP/CSE

VERIFIED BY

HoD/CSE

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APPROVED BY 02/03/22

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Identification of Curricular Gap & Content Beyond Syllabus(CBS)

Name of the Faculty : B.Kavipriya **Course Code & Name** : CS8691 & ARTIFICIAL INTELLIGENCE

Degree & Program : B.E / CSE **Semester:** III **Academic Year:** 2021 -2022 /EVEN

I.Mapping of Course Outcomes with POs & PSOs.(before CBS)

Table.1 Mapping of COs, C, PSOs with POs - before CBS.

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	-	-	-	-	-	-	-	-	-	1	1	1
CO2	3	2	2	-	-	-	-	-	-	-	-	-	2	2	1
CO3	2	2	1	-	-	-	-	-	-	-	-	-	1	1	1
CO4	2	2	1	-	-	-	-	-	-	-	-	-	1	1	2
CO5	2	2	1	-	-	-	-	-	-	-	-	-	1	1	1
CO5	2	1	1	-	-	-	-	-	-	-	-	-	1	1	2
CS8691	2.2	1.8	1.2	-	-	-	-	-	-	-	-	-	1.2	1.2	1.3

II. Identification of content beyond syllabus.

Table.2 Identification of content beyond syllabus

Details of Content Beyond Syllabus(CBS) added	POs strengthened/ vacant filled	CO/Unit
Expert systems in Artificial Intelligence	PO6(2) & PO11(2) Vacant filled	CO4 & CO5/ IV & V

III. Mapping of Course Outcomes with POs & PSOs. (After CBS)

Table.3 Mapping of COs, C, PSOs with POs- after CBS.

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	-	-	-	-	-	-	-	-	-	1	1	1
CO2	3	2	2	-	-	-	-	-	-	-	-	-	2	2	1
CO3	2	2	1	-	-	-	-	-	-	-	-	-	1	1	1
CO4	2	2	1	-	-	*1	-	-	-	-	*2	-	1	1	2
CO5	2	2	1	-	-	*2	-	-	-	-	*2	-	1	1	1
CO6	2	1	1	-	-	-	-	-	-	-	-	-	1	1	2
CS8691	2.2	1.8	1.2	-	-	*2	-	-	-	-	*2	-	1.2	1.2	1.3

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REASON BEYOND THE SELEECTION

- It puts to use the collaborative knowledge of experts of a domain in order to provide
  the best possible output.
- The information stored in the knowledge bank is highly secure in nature.
- It provides output 24×7 and is emotionless and thus can't feel stress.

MATERIAL

Expert Systems

An expert system in AI may be a computing system that emulates the decision-making ability of a person's expert. It is considered at the most elevated level of human knowledge and mastery. The reason for a specialist framework is to unravel the most complex problems arising in any particular domain.

History of Expert Systems in AI

Expert Systems were first presented by Stanford University specialists during the 1970s, in spite of the fact that it has been on PC researchers' psyches since the mid-1940s and 1950s.

Edward Feigenbaum and Joshua Lederberg, who were key individuals from the Stanford Heuristic Programming Project, built up the principal master framework in 1965. The analysts needed to make a specific framework instead of a universally useful one.

One of the gadget's initial applications included synthetic examination (DENDRAL) and clinical diagnostics (MYCIN). MYCIN, an irresistible infection diagnostics device, makes findings through reverse affixing.

Master frameworks have clarification offices that let clients ask them how they arrived at a specific resolution or why they couldn't. All things considered, its equipped for legitimizing its thinking and yield.

Examples of AI Expert Systems

1. MYCIN

MYCIN is amongst the oldest expert systems. It was designed upon the fundamental of backward chaining and was capable to identify infection-causing bacteria.

MYCIN treats certain bacterial infections and controls acne, additionally to other acne treatments. It prevents infections in people with a history of rheumatic disease, congenital heart condition or other acquired valvular heart condition and who are allergic to penicillin antibiotics.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Assignment Answer Sheet

Name of the Student : Annapoorani M

AU Register Number: 912619104001

Assignment – 03			Date of Issue:	10.04.2023	Marks	10
Course code	CS8691	Course Title	ARTIFICIAL INTELLIGENCE			
Year	III	Semester/Section	VI / A	Date of Submission:		13.04.2023

Q.No	Questions	CO
1.	Consider the following sentences: • John like all kinds of food • Apples are food • Chicken is food • Anything any one eats and isn't killed by is food • Bill eats peanuts and is still alive • Sue eats everything Bill eats. Translate these sentences into formulae in Predicate Logic.	C402.3

Mark Allocation

Rubrics	Marks Allocated	Marks obtained
Content Quality	6	6
Presentation Quality	2	2
Timely submission	2	1
Total marks	10	9

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Name and Signature of the Faculty in-charge

HoD/CSE

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IQAC Academic Audit Form

ACADEMIC YEAR: 2021-2022 EVEN SEMESTER

Name of Department :	CSE	Year / Sem :	III / VI	No. of Students Registered :	21

Details of Examination : ✓ CT - 1 / CT - 2 / CT - 3 / Model Test

S.No.	Course Code	List of Reg.No Verified	Course Log Book Verified (Y / N)	Course File Verified (Y / N)	No of students Attended	No of Absentees	No of Failures	Pass %	Remarks
1.	CS8651	912619104001	Yes	Yes	18	03	02	89%	-
2.	CS8691	912619104009	Yes	Yes	18	03	02	89%	-
3.	CS8601	912619104013	Yes	Yes	17	04	01	94%	-
4.	CS8602	912619104023	Yes	Yes	18	03	02	89%	-
5.	CS8603	912619104029	Yes	Yes	17	04	02	88%	-
6.	GE8075	912619104301	Yes	Yes	18	03	03	83%	-

Verified by

External Member Name and Signature:	J. SATHIYARAJ –
Internal Member Name and Signature:	G. SUGAPRIYA

Overall Remarks:

NIL

HoD/ CSE

IQAC Coordinator 5/5/22

Principal

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Kaikkurichi, Pudukkottai – 622 303

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT FEEDBACK ON FACULTY

S.NO.	DESCRIPTION	SCORED OUT OF 4	SCORED OUT OF 100
1.	Syllabus coverage as prescribed by university	3.76	94.0
2.	Technical knowledge of the teacher	3.71	92.9
3.	Teacher's communication skill	3.71	92.9
4.	Regularity in taking classes	3.57	89.3
5.	Helping the students in conducting the experiment through set of instruction and demonstrations	3.71	92.9
6.	Tendency of inviting opinion and question on subject matter from students	3.67	91.7
7.	Knowledge of the Teacher in latest development of field	3.67	91.7
8.	Perfectness of valuation	3.71	92.9
	OVERALL SCORE	3.69	92.28

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
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Kaikkurchi - 622 303, Pudukkottai Dt.

REPORT SHEET

S .NO	REG.NO	NAME	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
1.	912619104001	ANNAPOORANI M	4	4	4	3	3	4	4	4
2.	912619104003	ARUNNAVAMEENA A	4	3	4	3	4	4	3	4
3.	912619104004	DAYANA P	4	4	3	3	4	4	4	3
4.	912619104005	DHARSHINI D	3	3	4	4	3	4	3	4
5.	912619104007	FAHMIDHA B	4	4	4	4	4	4	4	4
6.	912619104009	GULNAS FATHIMA S	4	3	4	3	3	3	3	3
7.	912619104010	HELAN J	3	4	4	4	4	3	4	4
8.	912619104011	KEERTHANA R	4	3	4	4	3	3	4	4
9.	912619104012	MUTHULAKSHMI G	4	4	4	3	4	4	4	4
10.	912619104013	MUTHU MEENAKSHI M	4	4	4	4	3	4	4	4
11.	912619104014	NIROSHIKA R	3	4	4	4	4	3	3	4
12.	912619104017	PARAMESHWARI S	4	4	3	4	4	4	4	4
13.	912619104019	RANJANI K	4	4	3	3	3	4	4	3
14.	912619104020	RILWANA PARVEEN J	3	3	4	4	4	3	3	4
15.	912619104021	ROOPINA R	4	4	4	4	4	4	4	4
16.	912619104022	SANDHIYA B	4	4	4	3	4	4	4	4
17.	912619104023	SANTHI D	4	3	3	4	4	4	3	3
18.	912619104024	SARANYA C	4	4	4	3	4	3	3	4
19.	912619104027	SNEHA R	4	4	3	4	4	4	4	3
20.	912619104029	SURIYA JOTHI S	4	4	3	4	4	4	4	4
21.	912619104301	ABINAYA S	3	4	4	3	4	3	4	3
		AVERAGE	**3.76**	**3.71**	**3.71**	**3.57**	**3.71**	**3.67**	**3.67**	**3.71**
		PERCENTAGE	**94.0**	**92.9**	**92.9**	**89.3**	**92.9**	**91.7**	**91.7**	**92.9**

EXCELLENT	VERY GOOD	GOOD	AVERAGE	POOR
4	3	2	1	0

Signature of the Faculty incharge

HOD/CSE

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HOD / CSE
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PUDUKKOTTAI - 622 303

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURICHI, PUDUKKOTTAI – 622 303.

Date: 05.05.2022

Circular

The Second cycle test will be conducted from **16.05.2022 to 21.05.2022** for the IV, VI & VIII semester (II, III & IV year) students.

The following instructions are to be followed by the faculty members.

- Total marks for which the question paper to be set will be for 60 marks. **(PART A** 10X2=20 **PART B** 2X13=26 **& PART C** 1X14=14)
- It is the responsibility of the **question paper** setter to take the Xerox copies of the required number of question papers and it should be handed over to the Exam cell Coordinators Mr. J. Sathyaraj AP/ EEE / Mrs. G. Bhuvaneswari AP/CSE along with **answer key** on or before **12.05.2022.**
- The Exam Coordinators (exam cell) are requested to make necessary arrangements (hall arrangements, invigilation duty etc.,) for conducting the test.
- Faculty members are requested to handover the valued answer scripts to the students on or before **23.05.2022** and the class in-charges are requested to send the consolidated mark sheet along with the attendance percentage **(from 16th March 2022 to 14th May 2022)** to the parents on or before **24.05.2022.**

PRINCIPAL

06/05/22

Cc:

- All faculty
- Exam cell
- Office file

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Circular

Date: 05.05.2022

The Second cycle test will be conducted from 16.05.2022 to 21.05.2022 for the VI semester (III year) B.E students for 60 marks as per the time table given below. Students are directed to prepare well and score good marks. Regular classes will be conducted at **11.50 am** onwards and **no retest** will be conducted.

Date	09.45 am -11.45 am
16-05-2022	CE8601- Design of Steel Structural Elements (CIVIL) CS8651- Internet Programming (CSE) EE8691- Embedded Systems (EEE) EC8651- Transmission Lines and RF Systems (ECE)
17-05-2022	CE8602-Structural Analysis II (CIVIL) CS8691- Artificial Intelligence (CSE) EC8095- VLSI Design (ECE) EE8602- Protection and Switchgear (EEE)
18-05-2022	CE8603- Irrigation Engineering (CIVIL) CS8601- Mobile Computing (CSE) EE8601- Solid State Drives (EEE) EC8652- Wireless Communication (ECE)
19-05-2022	CE8604- Highway Engineering (CIVIL) CS8602- Compiler Design (CSE) EE8005-Special Electrical Machines (EEE) EC8691- Microprocessors and Microcontrollers (ECE)
20-05-2022	EN8592- Wastewater Engineering (CIVIL) GE8075- Intellectual Property Rights (CSE/EEE) EC8004- Wireless Networks (ECE)
21-05-2022	CE8005- Air Pollution and Control Engineering (CIVIL) CS8603- Distributed Systems (CSE) MG8591- Principles of Management (ECE)

PRINCIPAL

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Cc:

- All III year B.E Classes
- All faculty
- Exam cell
- Notice Board
- Office file

Register Number: | | | | | | | | | | | |

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Cycle Test - II			Date/Session	17.05.2022/FN	Marks	60
Course code	CS8691	Course Title	ARTIFICIAL INTELLIGENCE			
Regulation	2017	Duration	2 Hrs	Academic Year	2021-2022	
Year	III	Semester	VI	Department	CSE	

COURSE OUTCOMES

C311.1:	Write the basics of Artificial Intelligence
C311.2:	Use appropriate search algorithms for any AI problem
C311.3:	Represent a problem using first order and predicate logic
C311.4:	Provide the apt agent strategy to solve a given problem
C311.5:	Design software agents to solve a problem
C311.6:	Design applications for NLP that use Artificial Intelligence.

Q.No.	Questions		CO	BTS
	PART A (Answer all the Questions 10 x 2 = 20 Marks)			
1.	Define Unification.		C311.3	K1
2.	What is forward chaining?		C311.3	K1
3.	Clarify the concept of mental event.		C311.3	K3
4.	What are the types of Intelligent?		C311.4	K2
5.	Define Knowledge representation.		C311.3	K1
6.	List out the issues in Knowledge representation.		C311.3	K1
7.	Define Ontological engineering.		C311.3	K1
8.	Define Monotic Reasoning.		C311.3	K1
9.	Draw the Truth Table P and Q.		C311.4	K3
10.	Define Knowledge Engineering.		C311.3	K1
	PART B (Answer all the Questions 2 x 13 = 26 Marks)			
11a	Can you explain Mental Events and Mental Objects with example?	(13)	C311.3	K4
	OR			
11b	Illustrate the concept of Ontological Engineering.	(13)	C311.3	K4
12a	Discuss in detail about Knowledge representation.	(13)	C311.3	K4
	OR			
12b	Illustrate the concepts for Prepositional Logic.	(13)	C311.3	K4
	PART C (Answer all the Questions 1 x 14 = 14 Marks)			
13.	Explain the detailed concept about intelligent agent with Architecture.	(14)	C311.4	K2

Course Faculty
(Name /Sign / Date)

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HoD
(Name/Sign / Date)

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Sri Bharathi Engineering college for women
Kaikkurichi, Pudukkottai.

Department of Computer Science & engineering

cycle Test - II Answer key

CS8691 - Artificial Intelligence.

Part - A.

(1) unification
identify the unique process.

(2) forward chaining.
It is the process of front end chaining.

(3) Mental event:
The event that has occur on its mental feeling. Conscious & human.

(4) Types of Intelligent
Simple reflex agent, Goal Based agent, learning agent

(5) knowledge Representation
Semantic rules, system architecture, frames, rules and ontologies.

(6) Issues in knowledge representation
Relationship among attributes
Representing set of objects.

(7) ontological Engineering.
field of studies the method and methodologies for building ontologies.

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8) Monotic Reasoning.

Adding information to existing information in our knowledge Base.

(9) Truth table for P ∧ Q.

P	Q	P ∧ Q	P ∨ Q
True	false	false	True.

(10) Knowledge Engineering.

It creates rules to apply data imitate the thought process of human expert.

Part-B.

11 a) Mental Events and Mental objects

Mental event is any event that happens within the mind of conscious individual.

It can be associated with animals and ~~AI~~ agent

Mental object the sum of range of what has been perceived, discovered, or learned.

KR Introduction
ontological engineering
Categories and objects
Actions, situations and Events.
Reasoning System for categories.

12a) knowledge Representation:

In toy problems the choice of representation is not important because their problems have constant vocabulary.

Category of First order logic.
Propositional logic.
fluent calculus.

b). Concepts of Propositional logic

Characteristic of propositional logic
Drawbacks of propositional logic.
Syntax for propositional logic.
Propositional calculs Sentences.
Connectivs....
Grouping of Symbols in Propositional logic
formal Grammer for Propositional logic.

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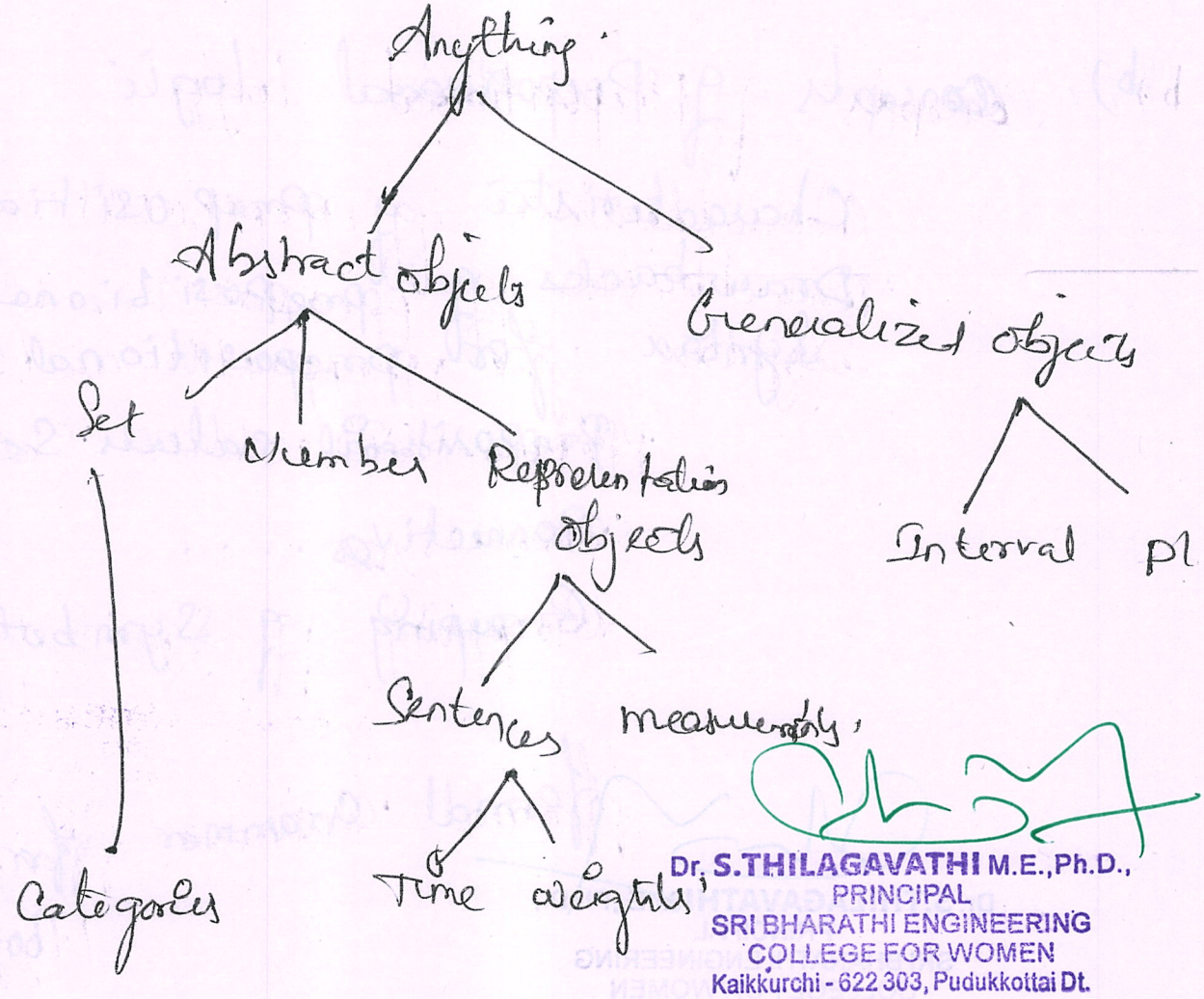
b) Ontological engineering.

The Process of representing the abstract concepts like actions, time, which are related to real domains is defined as ontological engineering.

Upper Ontology:

The general framework of concepts is called as upper ontology.



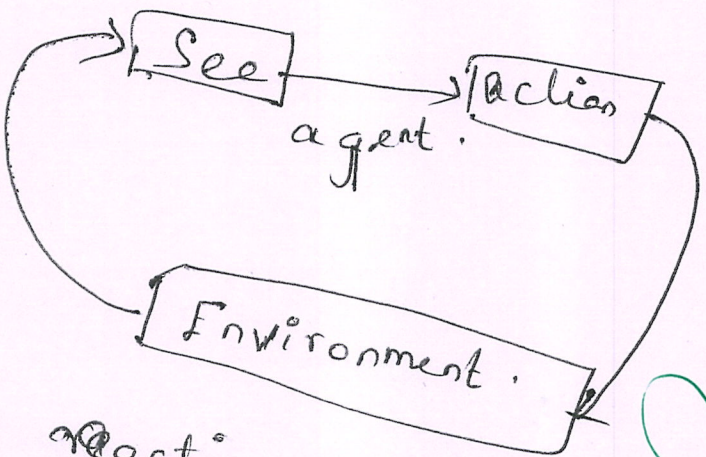
Part-C

13) Intelligent agent architecture :-

An AI agent is a computer system that is situated in some environment, and it is capable of autonomous action.

Intelligent agent :-

i) Reactivity
ii) Pro-activeness
iii) Social ability.



1) Purely reactive agents.
2) agent with state

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Cycle Test Answer Book

Name	HELAN J			**Year/ Semester/Section**	III/VI
Reg No.	912619104010	**Date/Session**	17.5.22 FN	**Department**	CSE
Course code	CS 8691	**Course Title**	Artificial Intelligence		
Cycle Test		**CT 1** ☐	**CT 2** ☑	**CT 3** ☐	**Model** ☐
Name and Signature of the Invigilator with date		R. Sath 17/5/22			

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C						Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks		
1	✓	2	11			✓	12		12
2	✓	2	12	✓	11				11
3	✓	2	13	✓	12				12
4	✓	2	14						
5	✓	2	15						
6	✓	2	16						
7	✓	2	Grand Total						
8	✓	2	52				B. [illegible]		
9	✓	1							
10	✓	2							
Total		18	Grand Total				Name and Signature of the Examiner with date		

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted			42	18			60
Marks Obtained			37	15			42

IQAC Audit - Remarks

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Name and Signature of the IQAC member

[Mrs. B. PRIYA]

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2021 – 2022(EVEN SEMESTER)
STUDENTS MARK STATEMENT- CO BASED
CYCLE TEST-II

SUBJECT CODE &TITLE: CS8691 & ARTIFICIAL INTELLIGENCE

YEAR/SEM: III/VI **MONTH & YEAR: MAY&2022**

S.NO	REG NO	STUDENT NAME	C311.3 (42)	C311.4 (18)	TOTAL (60)	TOTAL (100)
1.	912619104001	ANNAPOORANI M	10	10	20	33
2.	912619104003	ARUNNAVAMEENA A	33	07	40	67
3.	912619104004	DAYANA P	32	08	40	67
4.	912619104005	DHARSHINI D	40	10	50	84
5.	912619104007	FAHMIDHA B	46	09	55	92
6.	912619104009	GULNAS FATHIMA S	38	18	56	94
7.	912619104010	HELAN J	37	15	52	87
8.	912619104011	KEERTHANA R	37	8	45	75
9.	912619104012	MUTHULAKSHMI G	32	8	40	67
10.	912619104013	MUTHU MEENAKSHI M	32	10	42	70
11.	912619104014	NIROSHIKA R	28	12	40	67
12.	912619104017	PARAMESHWARI S	26	12	38	64
13.	912619104019	RANJANI K	25	06	31	52
14.	912619104020	RILWANA PARVEEN J	39	16	55	92
15.	912619104021	ROOPINA R	30	10	40	67
16.	912619104022	SANDHIYA B	30	13	43	72
17.	912619104023	SANTHI D	23	14	37	61

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18.	912619104024	SARANYA C	23	15	38	64
19.	912619104027	SNEHA R	20	14	34	57
20.	912619104029	SURIYA JOTHI S	32	08	40	67
21.	912619104301	ABINAYA S	23	07	30	50

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
0	0	1	1	2	10	02	02	03

Total No.of Candidates Present	**21**
Total No.of Candidates Absent	**Nil**
Total No.of Students Pass	**20**
Total No. of Students Fail	**01**
Percentage of Pass	**95.23%**

Signature of the Faculty in-charge

HoD/CSE

HOD / CSE
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Principal

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KAIKKURICHI, PUDUKKOTTAI – 622 303
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2021 – 2022(EVEN SEMESTER)

INTERNAL MARK STATEMENT

SUBJECT CODE &TITLE: CS8691 & ARTIFICIAL INTELLIGENCE
YEAR/SEM: III/VI

S.NO	REG NO	STUDENT NAME	CS8691
1.	912619104001	ANNAPOORANI M	12
2.	912619104003	ARUNNAVAMEENA A	14
3.	912619104004	DAYANA P	14
4.	912619104005	DHARSHINI D	16
5.	912619104007	FAHMIDHA B	18
6.	912619104009	GULNAS FATHIMA S	19
7.	912619104010	HELAN J	18
8.	912619104011	KEERTHANA R	15
9.	912619104012	MUTHULAKSHMI G	15
10.	912619104013	MUTHU MEENAKSHI M	14
11.	912619104014	NIROSHIKA R	15
12.	912619104017	PARAMESHWARI S	14
13.	912619104019	RANJANI K	13
14.	912619104020	RILWANA PARVEEN J	19
15.	912619104021	ROOPINA R	14
16.	912619104022	SANDHIYA B	14
17.	912619104023	SANTHI D	13
18.	912619104024	SARANYA C	14
19.	912619104027	SNEHA R	13
20.	912619104029	SURIYA JOTHI S	14
21.	912619104301	ABINAYA S	12

Signature of the Faculty incharge **HoD/CSE** **Principal**

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KAIKKURICHI, PUDUKKOTTAI – 622 303
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2021 – 2022(EVEN SEMESTER)
ANNA UNIVERSITY GRADE SHEET

SUBJECT CODE &TITLE: CS8691 & ARTIFICIAL INTELLIGENCE

YEAR/SEM: III/VI

S.NO	REG NO	STUDENT NAME	CS8691
1.	912619104001	ANNAPOORANI M	B
2.	912619104003	ARUNNAVAMEENA A	B
3.	912619104004	DAYANA P	A
4.	912619104005	DHARSHINI D	B
5.	912619104007	FAHMIDHA B	A
6.	912619104009	GULNAS FATHIMA S	A+
7.	912619104010	HELAN J	A
8.	912619104011	KEERTHANA R	B+
9.	912619104012	MUTHULAKSHMI G	A
10.	912619104013	MUTHU MEENAKSHI M	B+
11.	912619104014	NIROSHIKA R	B+
12.	912619104017	PARAMESHWARI S	B+
13.	912619104019	RANJANI K	A
14.	912619104020	RILWANA PARVEEN J	A
15.	912619104021	ROOPINA R	A
16.	912619104022	SANDHIYA B	A
17.	912619104023	SANTHI D	A
18.	912619104024	SARANYA C	A
19.	912619104027	SNEHA R	B+
20.	912619104029	SURIYA JOTHI S	B
21.	912619104301	ABINAYA S	U

Signature of the Facuty Incharge **HoD/CSE** **Principal**

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SRI BHARATHI ENGINERRING COLLEGE FOR WOMEN,KAIKKURICHI

Department of Computer Science and Engineering

Internal Assessment -Attainment of Course Outcomes (Through Direct Assessment)

ACADEMIC YEAR - 2021 - 22		BATCH	2019 - 2023					
COURSE CODE/TITLE	CS8691(C311) / ARTIFICIAL INTELLIGENCE	COURSE OUTCOME	1	2	3	4	5	6
YEAR/SEM	III / VI	TARGET(%)	65	65	65	65	65	65
COURSE COORDINATOR	B.KAVIPRIYA	TOTAL STRENGTH	21					

ATTAINMENT LEVEL	Level	Range
	1	UP TO 60% of the students scored more than target
	2	61 - 79% of the students scored more than target
	3	80% & ABOVE of the students scored more than target

S.NO	REG NO	NAME OF THE STUDENT	IAT 1 - MARKS ALLOTED						IAT 2 - MARKS ALLOTED						IAT 3 - MARKS ALLOTED						Assignment / Mini Project /Tutorial / Seminar						TOTAL COURSE OUTCOME					
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6
			60	40							40	60							60	40		10	10			10	60	50	50	60	60	50
1	912619104001	ANNAPOORANI M	43	29							13	20							45	30		7	8			8	43	36	21	20	45	38
2	912619104003	ARUNNAVAMEENA A	41	27							27	40							43	28		8	8			8	41	35	35	40	43	36
3	912619104004	DAYANA P	39	26							27	40							47	31		8	9			7	39	34	36	40	47	38
4	912619104005	DHARSHINI D	47	31							34	50							44	30		9	7			8	47	40	41	50	44	38
5	912619104007	FAHMIDHA B	52	34							37	55							55	37		7	8			9	52	41	45	55	55	46
6	912619104009	GULNAS FATHIMA S	56	37							38	56							56	38		8	8			7	56	45	46	56	56	45
7	912619104010	HELAN J	56	38							35	52							56	38		8	8			9	56	46	43	52	56	47
8	912619104011	KEERTHANA R	49	32							30	45							43	29		9	7			7	49	41	37	45	43	36
9	912619104012	MUTHULAKSHMI G	49	32							27	40							47	31		7	8			9	49	39	35	40	47	40
10	912619104013	MUTHU MEENAKSHI M	38	26							28	42							47	31		7	9			8	38	33	37	42	47	39
11	912619104014	NIROSHIKA R	43	29							27	40							47	32		8	8			9	43	37	35	40	47	41
12	912619104017	PARAMESHWARI S	41	28							26	38							45	30		8	8			8	41	36	34	38	45	38
13	912619104019	RANJANI K	43	28							21	31							44	29		7	9			7	43	35	30	31	44	36
14	912619104020	RILWANA PARVEEN J	58	38							37	55							54	36		9	8			9	58	47	45	55	54	45
15	912619104021	ROOPINA R	42	28							27	40							43	28		8	7			8	42	36	34	40	43	36
16	912619104022	SANDHIYA B	41	27							29	43							44	29		7	9			8	41	34	38	43	44	37
17	912619104023	SANTHI D	37	25							24	37							43	29		8	8			8	37	33	32	37	43	37

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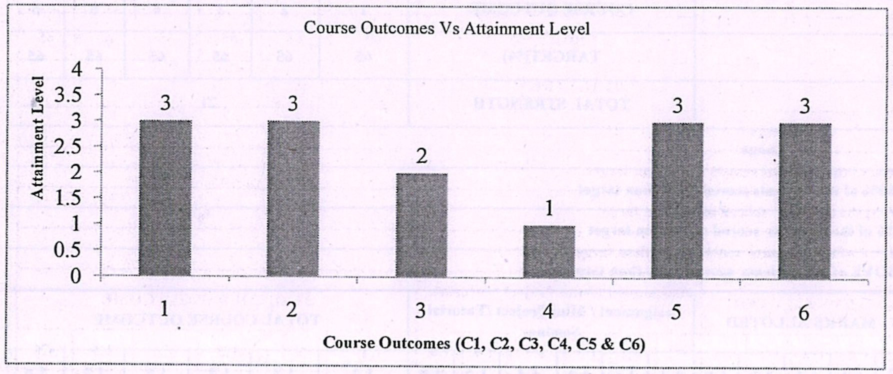
18	912619104024	SARANYA C	46	30					26	38						43	28	9	8			9	46	39	34	38	43	37
19	912619104027	SNEHA R	42	28					23	34						43	29	8	8			8	42	36	31	34	43	37
20	912619104029	SURIYA JOTHI S	43	28					27	40						44	29	9	7			8	43	37	34	40	44	37
21	912619104301	ABINAYA S	39	26					20	30						41	28	7	8			7	39	33	28	30	41	35
																						CO's Target Value	39.0	32.5	32.5	39.0	39.0	32.5
																						No. of Students scored above CO's Target Value	19	21	16	14	21	21
																						Percentage of Students scored above Target	90.5	100.0	76.2	66.7	100.0	100.0
																						CO Attainment	3	3	2	1	3	3
																						CO attainment Values to plot the Graph	3	3	2	1	3	3



Faculty Incharge

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
DEPARTMENT OF CSE
COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION
ACADEMIC YEAR : 2021 - 2022 (EVEN SEM)

YEAR /SEM: III CSE / V I **Batch:2019-2023**
SUBJECT :CS8691(C311) / ARTIFICIAL INTELLIGENCE
CO Attainment Level: 1 - (UPTO 60%) 2- (61%-79%) 3-(80% and Above)
TOTAL STRENGTH : 21

S.NO	Register No	NAME	Univ. Grade
1	912619104001	ANNAPOORANI M	B
2	912619104003	ARUNNAVAMEENA A	B
3	912619104004	DAYANA P	B
4	912619104005	DHARSHINI D	B
5	912619104007	FAHMIDHA B	A
6	912619104009	GULNAS FATHIMA S	A
7	912619104010	HELAN J	A
8	912619104011	KEERTHANA R	B
9	912619104012	MUTHULAKSHMI G	B
10	912619104013	MUTHU MEENAKSHI M	B+
11	912619104014	NIROSHIKA R	B
12	912619104017	PARAMESHWARI S	U
13	912619104019	RANJANI K	B
14	912619104020	RILWANA PARVEEN J	A
15	912619104021	ROOPINA R	B
16	912619104022	SANDHIYA B	B
17	912619104023	SANTHI D	B
18	912619104024	SARANYA C	B
19	912619104027	SNEHA R	B
20	912619104029	SURIYA JOTHI S	U
21	912619104301	ABINAYA S	U

No. of O Grade	0	0
No. of A+ Grade	0	0
No. of A Grade	4	4
No. of B+ Grade	1	1
No. of B Grade	13	13
No. of U Grade	3	3
No. of UA Grade	0	0
Target for course outcome Attainment	60	21
No of students above the target	18	
CO-Attainment University (%)	85.71	

B.kavitha
Faculty

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Overall Attainment Sheet – COs - POs & PSOs attainment calculation

CO	CO-Attainment Internal (CO-INT) (Avg. Attainment of All section) (%)	CO-Attainment University (CO-UNI) (Avg. Attainment of All section) (%)	Direct CO Attainment (0.20xCO-INT + 0.80xCO-UNI) (%)	CO Attainment Level
C311.1	90.5	85.71	86.7	3
C311.2	100.0	85.71	88.6	3
C311.3	76.2	85.71	83.8	3
C311.4	66.7	85.71	81.9	3
C311.5	100.0	85.71	88.6	3
C311.6	100.0	85.71	88.6	3

Closure of the Quality Loop:

CO	CO-Target for Academic Year						CO Attainment Gap for (%) 16-17	Action Proposed to Bridge the Gap
	14-15		15-16		16-17			
C311.1	65	79.71	65	69	65	86.7	-	-
C311.2	65	79.71	65	71.17	65	88.6	-	-
C311.3	65	79.71	65	63.15	65	83.8	-	-
C311.4	65	79.71	65	75.11	65	81.9	-	-
C311.5	65	79.71	65	73.57	65	88.6	-	-
C311.6	65	79.71	65	68.44	65	88.6	-	

Expected CO-PO Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO 3
C311.1	2	2	1	1	-	-	-	-	-	-	-	-	1	1	1
C311.2	3	2	2	1	-	-	-	-	-	-	-	-	2	2	1
C311.3	2	2	1	1	-	-	-	-	-	-	-	-	1	1	1
C311.4	2	2	1	1	-	-	-	-	-	-	-	-	1	1	2
C311.5	2	1	1	1	-	-	-	-	-	-	-	-	1	1	2
C311.6	2	1	1	1	-	-	-	-	-	-	-	-	1	1	1
C311	2.2	1.8	1.2	1	-	-	-	-	-	-	-	-	1.2	1.2	1.3

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO 3
C311.1	2	2	1	1	-	-	-	-	-	-	-	-	1	1	1
C311.2	3	2	2	1	-	-	-	-	-	-	-	-	2	2	1
C311.3	2	2	1	1	-	-	-	-	-	-	-	-	1	1	1
C311.4	2	2	1	1	-	-	-	-	-	-	-	-	1	1	2
C311.5	2	1	1	1	-	-	-	-	-	-	-	-	1	1	2
C311.6	2	1	1	1	-	-	-	-	-	-	-	-	1	1	1
C311	2.17	1.67	1.17	1	-	-	-	-	-	-	-	-	1.17	1.17	1.3

Attainment of POs and PSOs:

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO2
C311	2.2	1.8	1.2	1	-	-	-	-	-	-	-	-	1.2	1.2	1.3
Attainment	2.17	1.67	1.17	1	-	-	-	-	-	-	-	-	1.17	1.17	1.3

Comments by Program Coordinator	1. 2.
Remarks by HoD	

Name and Signature of the Faculty Member

B. KAVIPRIYA

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