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REF.NO:SSIP/ REQ/2022/008   Date: 06/12/2022

From

    Department of Pharmacy,

    SS institute of pharmacy,

    Sankari, Salem (DIST) - 637301.

To

    The principal,

    SS institute of pharmacy,

    Sankari, Salem (DIST) – 637301.

    Subject: Letter for requesting permission to conduct **ADD ON COURSE** -Reg.

Respected sir,

    We are requesting you to grand permission to conduct add-on course in the seminar hall on **19/12/2022 to 26/12/2022**. We wish to conduct add on course on the title **"Artificial Intelligence Using Prolog Programming".** This add-on course program would be a great opportunity for students to learn and that would help to shape the students.

<div align="center">Thanking you,</div>

<div align="right">

Yours truly,

</div>

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SALEM - 637301

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DATE: 06/12/2022

CIRCULAR

This is to inform that will B.PHARM students have the schedule of following value - added course to be conducted by our SS Institute of Pharmacy and it as mentioned below.

COURSE NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
ARTIFICIAL INTELLIGENCE USING PROLOG PROGRAMMING	19/12/2022 to 26/12/2022	35 HOURS	SEMINAR HALL	C.KALAISELVI

All the above-mentioned students must enroll and actively participate in the course without fail.

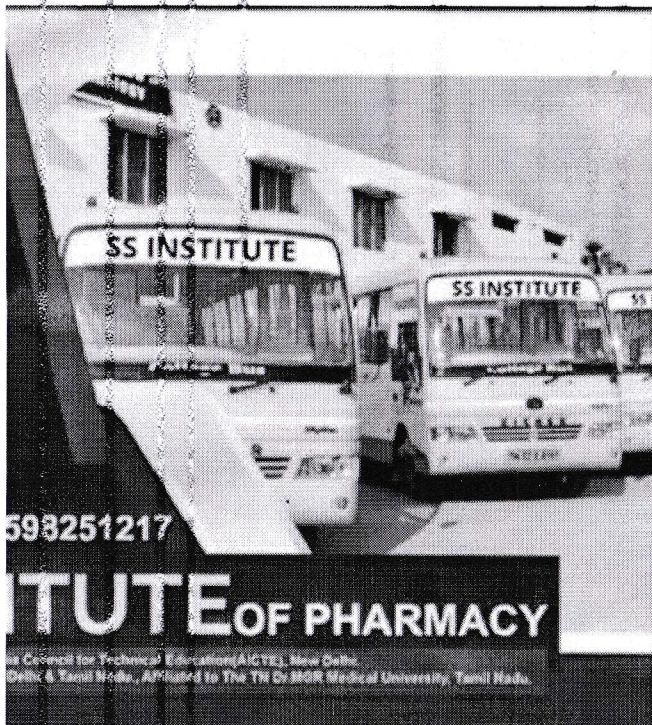**Note**: Certificates will be issued for the eligible students after completion of the course and examination.

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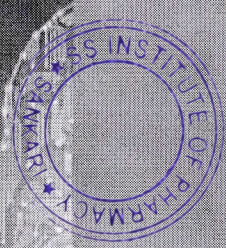SS INSTITUTE OF PHARMACY,
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COURSE TITLE

ARTIFICIAL INTELLIGENCE USING PROLOG PROGRAMMING

RESOURCE PERSON

C.KALAISELVI M.PHARM
Professor
SS Institute of Pharmacy

LET'S
CONNECT

Phone
6382861553

Website
www.ssip.edu.in

Email
ssip1718@gmail.com

Address
NH 47, Kuppanur Post,
Salem — Coimbatore High
Way, Manjakalpatti,
Sankari Taluk,
Salem District, Tamil Nadu
— 637 301.

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TUTE OF PHARMACY

Council for Technical Education(AICTE), New Delhi,
Delhi & Tamil Nadu, Affiliated to The TN Dr.MGR Medical University, Tamil Nadu.

SS INSTITUTE OF PHARMACY

DEPARTMENT OF PHARMACY

SSIP

VENUE : SSIP Seminar hall
DATE :19/12/2022 TO 26/12/2022
TIME :10:00am-01:00pm

Artificial intelligence
Prolog gramming In AI

TOPICS

1. Expert Systems in Drug Discovery

2. Healthcare and Pharmacy Robotics

3. Pharmacovigilance and Data Mining

4. Natural Language Processing for Medical Data

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SYLLABUS

ARTIFICIAL INTELLIGECE USING PROLONG PROGRAMMING

Sl. No.	Topic	DATE
1	**Foundations of Prolog and AI** - Introduction to Prolog: Syntax, semantics, and basic programming constructs in Prolog. -Knowledge Representation: Logical representations, facts, rules, and structures in Prolog for AI applications.	19/12/2022
2	**Inference and Reasoning in AI** - Inference Engines: Mechanisms of logical inference, unification, and backtracking in Prolog. - Expert Systems: Building and implementing rule-based systems using Prolog for decision-making	20/12/2022
3	**AI Domains and Prolog Implementations** - Natural Language Processing: Parsing, grammar representation, and language understanding in Prolog. - Machine Learning and Computer Vision: Introduction to implementing basic learning algorithms and visual recognition tasks using Prolog.	21/12/2022-22/12/2022
4	**Robotics, Planning, and Multi-Agent Systems** - Robotics and Planning: Using Prolog for pathfinding, automated planning, and robot control logic. - Multi-Agent Systems*: Designing and simulating cooperative and competitive agent behaviors in Prolog.	23/12/2022-24/12/2022
5	**Practical Applications and Advanced Topics** - Applications of AI in Prolog: Case studies and projects showcasing real-world AI applications developed using Prolog. - Advanced Prolog Techniques: Optimization, debugging, and enhancing the efficiency of Prolog-based AI systems.	26/12/2022

RESOURCE PERSON: C.Kalaiselvi

TOTAL HOURS:35Hrs

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ADD ON / CERTIFICATE VALUE ADDED COURSES
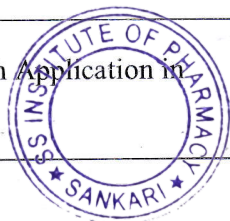# ACADEMIC YEAR 2022-2023

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ACADAMIC YEAR 2022-2023

S.NO	NAME OF ADD ON CERTIFICATES PROGRAMS	COURSE CODE	NO OF STUDEN ENROLLED	TYPE OF ADD ON CERTIFICATE PROGRAMS
1.	Advanced Thermodynamics And Combustion	22ATC01	59	Self-framed course
2.	Applied Computational Fluid Dynamics.	22ACFD02	56	Self-framed course
3.	Advanced Research Techniques in Homeopathic System of Medicine.	22ARTHSM03	30	Self-framed course
4.	An Introduction to Indian Literacy Theory.	22IILT04	29	Self-framed course
5.	A Basic Course in Machine Learning.	22BCML05	55	Self-framed course
6.	Adolescent Nutrition.	22AN06	57	Self-framed course
7.	Analytical Techniques in Biochemistry.	22ATB07	59	Self-framed course
8.	Artificial Intelligence Using Prolog Programming.	22AIUPP08	58	Self-framed course
9.	Mobile Health Application in Pharmacy.	23MHAP09	116	Self-framed course

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ADD ON COURSE – ENROLLMENT LIST

NAME OF ADD ON COURSE : ARTIFICIAL INTELLIGENCE USING PROLOG PROGRAMMING

COURSE INSTRUCTORS : C.KALAISELVI

YEAR OFFERED : 3rd SEM B.PHARM

COURSE DURATION : 35 hrs

S.NO	NAME OF THE STUDENT	REGISTER NO	COURSE
1.	ABINAYA.M	560020523501	2nd B.PHARM
2.	ABISHEK.J	560020523502	2nd B.PHARM
3.	AMOKA.V	560020523503	2nd B.PHARM
4.	ANBUSELVAN.V	560020523504	2nd B.PHARM
5.	ANBUSELVI.S	560020523505	2nd B.PHARM
6.	ANITHA.L	560020523506	2nd B.PHARM
7.	ARAVIND.R	560020523507	2nd B.PHARM
8.	ARCHANA.M	560020523508	2nd B.PHARM
9.	ARUN VENKATESHWARAN.S	560020523509	2nd B.PHARM
10.	ARUN.A	560020523510	2nd B.PHARM
11.	ASWIN.M	560020523511	2nd B.PHARM
12.	ATCHAYA.K	560020523512	2nd B.PHARM
13.	BANU.S	560020523513	2nd B.PHARM
14.	BAVITHRA.B	560020523514	2nd B.PHARM
15.	BHARATHI RAJA.S	560020523515	2nd B.PHARM
16.	BARATH KUMAR.R	560020523516	2nd B.PHARM
17.	DEEPASRI.P	560020523517	2nd B.PHARM
18.	DINESH.S	560020523518	2nd B.PHARM
19.	GOPIKRISHNAN.V	560020523519	2nd B.PHARM
20.	GOWSALYA.V	560020523520	2nd B.PHARM
21.	GULBAHAR.G	560020523521	2nd B.PHARM
22.	HEMADHARAN.V	560020523522	2nd B.PHARM
23.	ISHWARYA.S	560020523523	2nd B.PHARM
24.	JEYASURYA.V	560020523524	2nd B.PHARM
25.	KESAVAMUGILESH.M	560020523525	2nd B.PHARM
26.	MUTHU...	560020523526	2nd B.PHARM
27.	NAGAMUGILAN.P	560020523527	2nd B.PHARM

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28.	NAGESHWARI.K	560020523528	2nd B.PHARM
29.	NARESH KUMAR.M	560020523529	2nd B.PHARM
30.	NARMATHA.M	560020523530	2nd B.PHARM
31.	PAPITHA .V	560020523531	2nd B.PHARM
32.	PRAGATHI .P	560020523532	2nd B.PHARM
33.	PRASANTH .M	560020523533	2nd B.PHARM
34.	PRIYADARSHINI .V	560020523534	2nd B.PHARM
35.	RAJALAKSHMI .N	560020523535	2nd B.PHARM
36.	RAJARAJAN .M	560020523536	2nd B.PHARM
37.	SATHISHKUMAR .J	560020523537	2nd B.PHARM
38.	SHIRLEY ELIZABETH.I	560020523538	2nd B.PHARM
39.	SIVA S.V	560020523539	2nd B.PHARM
40.	SIVAPRAKASH .V	560020523540	2nd B.PHARM
41.	SUDHA D.G	560020523541	2nd B.PHARM
42.	SUNDARAKANNAN .D	560020523542	2nd B.PHARM
43.	SURIYA .G	560020523543	2nd B.PHARM
44.	SWATHY .M	560020523544	2nd B.PHARM
45.	SYED YASIN S.M	560020523545	2nd B.PHARM
46.	TAMILARASAN .A	560020523546	2nd B.PHARM
47.	THAMIZHARASAN .N	560020523547	2nd B.PHARM
48.	THILAGAVATHI .M	560020523548	2nd B.PHARM
49.	THIRUMURUGAN .R	560020523549	2nd B.PHARM
50.	UMAVATHI .P	560020523550	2nd B.PHARM
51.	VALLARASU.D	560020523551	2nd B.PHARM
52.	VASANTHRAJ .S	560020523552	2nd B.PHARM
53.	VINOTH SANJAY.T	560020523553	2nd B.PHARM
54.	VINOTH .S	560020523554	2nd B.PHARM
55.	VISHWA .M	560020523555	2nd B.PHARM
56.	VISHWANATHAN .V	560020523556	2nd B.PHARM
57.	CHANDURU .R	560021523561	2nd B.PHARM
58.	NISHA .P	560021523562	2nd B.PHARM

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ADD ON COURSE – ENROLLMENT LIST

NAME OF ADD ON COURSE	: ARTIFICIAL INTELLIGENCE USING PROLOG PROGRAMMING
COURSE INSTRUCTORS	: C.KALAISELVI
YEAR OFFERED	: 3rd SEM B.PHARM
COURSE DURATION	: 35 hrs

S.NO	NAME OF THE STUDENT	REGISTER NO	ATTENDANCE						
			19/12/22	20/12/22	21/12/22	22/12/22	23/12/22	24/12/22	26/12/22
1.	ABINAYA.M	560020523501							
2.	ABISHEK.J	560020523502							
3.	AMOKA.V	560020523503							
4.	ANBUSELVAN.V	560020523504							
5.	ANBUSELVI.S	560020523505							
6.	ANITHA.I	560020523506							
7.	ARAVIND.R	560020523507							
8.	ARCHANA.M	560020523508							
9.	ARUN VENKATESHWARAN.S	560020523509							
10.	ARUN.A	560020523510							
11.	ASWIN.M	560020523511							
12.	ATCHAYA.K	560020523512							
13.	BANU.S	560020523513							
14.	BAVITHRA.B	560020523514							
15.	BHARATHI RAJA.S	560020523515							
16.	BARATH KUMAR.R	560020523516							
17.	DEEPASRI.P	560020523517							
18.	DINESH.S	560020523518							
19.	GOPIKRISHNAN.V	560020523519							
20.	GOWSALYA.V	560020523520							
21.	GULBAHAR.G	560020523521							
22.	HEMADHARAN.V	560020523522							
23.	ISHWARYA.S	560020523523							
24.	JEYASURYA	560020523524							
25.	KESAVAMURGILESHAM	560020523525							

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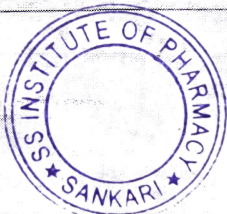SALEM - 637301

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26.	MUTHU.J	560020523526							
27.	NAGAMUGILAN.P	560020523527							
28.	NAGESHWARI.K	560020523528							
29.	NARESH KUMAR.M	560020523529							
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NH-544, Kuppanur (Po), Sankari (Tk), Salem(Dt) – 637301, Tamilnadu, India
Phone : 04283 241080 | E-mail : ssip1718@gmail.com | Website : www.ssip.edu.in

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ADD ON COURSE	ARTIFICIAL INTELLIGENCE IN PROLOG PROGRAMMING
DEPARTMENT	PHARMACY
ACADEMIC YEAR	2022-2023
DATE	19/12/2022 to26/12/2022
VENUE	SEMINAR HALL
NAME: S. Banu.	COURSE: II -year

ANSWER ALL THE QUESTIONS: DATE:26/12/2022

MULTIPLE CHOICE QUESTIONS   MARKS:15

1. What is Prolog?

   a) A programming language

   b) A software tool

   c) A hardware device

   d) A networking protocols

2. Which of the following is a key feature of Prolog?

   a) Object-oriented programming

   b) Functional programming

   c) Logic-based programming

   d) Imperative programming

3. What is knowledge representation in Prolog?

   a) Storing data in a database

   b) Representing knowledge using facts and rules

   c) Creating a user interface

   d) Writing a program

4. What is an inference engine in Prolog?

   a) A program that reasons and draws conclusions

   b) A program that stores and retrieves data

   c) A program that generates reports

   d) A program that creates graphics

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5. What is an expert system in Prolog?

   a) A program that solves complex problems

   b) A program that provides expert advice

   c) A program that simulates human reasoning

   d) All of the above

6. Which of the following is a natural language processing task in Prolog?

   a) Parsing and syntax analysis

   b) Semantic analysis and interpretation

   c) Natural language generation

   d) All of the above

7. What is machine learning in Prolog?

   a) Inductive logic programming

   b) Decision trees and rule induction

   c) Neural networks and deep learning

   d) All of the above

8. Which of the following is a computer vision task in Prolog?

   a) Image processing and analysis

   b) Object recognition and classification

   c) Scene understanding and interpretation

   d) All of the above

9. What is robotics and planning in Prolog?

   a) Planning and decision-making

   b) Robot control and navigation

   c) Sensor integration and perception

   d) All of the above

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10. Which of the following is a multi-agent system task in Prolog?

    a) Agent communication and coordination

    b) Agent reasoning and decision-making

    c) Distributed problem-solving

    d) All of the above

11. What is the purpose of Prolog's built-in predicate "append"?

    a) To concatenate two lists

    b) To split a list into two parts

    c) To sort a list

    d) To reverse a list

12. Which of the following is a common Prolog data structure?

    a) Arrays

    b) Linked lists

    c) Trees

    d) Graphs

13. What is the purpose of Prolog's built-in predicate "member"?
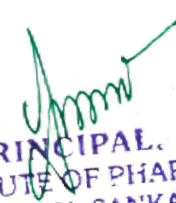
    a) To check if an element is in a list

    b) To add an element to a list

    c) To remove an element from a list

    d) To sort a list

14. Which of the following is a Prolog control structure?

    a) If-then-else statement

    b) For loop

    c) While loop

    d) Recursion

15. What is the purpose of Prolog's built-in predicate "consult"?

    a) To load a Prolog program

    b) To save a Prolog program

    c) To execute a Prolog query

    d) To debug a Prolog program

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ADD ON COURSE	ARTIFICIAL INTELLIGENCE IN PROLOG PROGRAMMING
DEPARTMENT	PHARMACY
ACADEMIC YEAR	2022-2023
DATE	19/12/2022 to26/12/2022

ANSWER KEY: **DATE:26/12/2022**

MULTIPLE CHOICE QUESTIONS   **MARKS:15**

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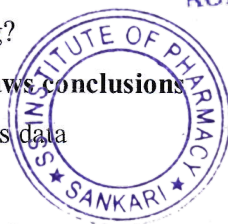   **c) Logic-based programming**

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and The Directorate of Medical Education, Chennai.

10. Which of the following is a multi-agent system task in Prolog?

    a) Agent communication and coordination

    b) Agent reasoning and decision-making

    c) Distributed problem-solving

    d) All of the above

11. What is the purpose of Prolog's built-in predicate "append"?

    a) To concatenate two lists

    b) To split a list into two parts

    c) To sort a list

    d) To reverse a list

12. Which of the following is a common Prolog data structure?

    a) Arrays

    b) Linked lists

    c) Trees

    d) Graphs

13. What is the purpose of Prolog's built-in predicate "member"?

    a) To check if an element is in a list

    b) To add an element to a list

    c) To remove an element from a list

    d) To sort a list

14. Which of the following is a Prolog control structure?

    a) If-then-else statement

    b) For loop

    c) While loop

    d) Recursion

15. What is the purpose of Prolog's built-in predicate "consult"?

    a) To load a Prolog program

    b) To save a Prolog program

    c) To execute a Prolog query

    d) To debug a Prolog program

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ADD ON COURSE – MARK LIST

NAME OF ADD ON COURSE : ARTIFICIAL INTELLIGENCE USING PROLOG PROGRAMMING
COURSE INSTRUCTORS : C.KALAISELVI
YEAR OFFERED : 3rd SEM B.PHARM
COURSE DURATION : 35hrs

S.NO	NAME OF STUDENT	REGISTER NO	MARKS (15)	PERCENTAGE (%)
1.	ABINAYA.M	560020523501	12	80%
2.	ABISHEK.J	560020523502	12	80%
3.	AMOKA.V	560020523503	14	93%
4.	ANBUSELVAN.V	560020523504	13	86%
5.	ANBUSELVI.S	560020523505	13	86%
6.	ANITHA.L	560020523506	14	93%
7.	ARAVIND.R	560020523507	14	93%
8.	ARCHANA.M	560020523508	15	100%
9.	ARUN VENKATESHWARAN.S	560020523509	13	86%
10.	ARUN.A	560020523510	13	86%
11.	ASWIN.M	560020523511	13	86%
12.	ATCHAYA.K	560020523512	13	86%
13.	BANU.S	560020523513	15	100%
14.	BAVITHRA.B	560020523514	13	86%
15.	BHARATHI RAJA.S	560020523515	14	93%
16.	BARATH KUMAR.R	560020523516	15	100%
17.	DEEPASRI.P	560020523517	13	86%
18.	DINESH.S	560020523518	13	86%
19.	GOPIKRISHNAN.V	560020523519	12	80%
20.	GOWSALYA.V	560020523520	13	86%
21.	GULBAHAR.G	560020523521	14	93%
22.	HEMADHARAN.V	560020523522	12	80%
23.	ISHWARYA.S	560020523523	13	86%
24.	JEYASURYA.V	560020523524	14	93%
25.	KESAVAMUGILESH.M	560020523525	12	80%
26.	MUTHU.J	560020523526	14	93%
27.	NAGAMUGILAN.P	560020523527	15	100%
28.	NAGESHWARI.K	560020523528	13	86%
29.	NARESH KUMAR.M	560020523529	13	86%
30.	NARMATHA.M	560020523530	13	86%

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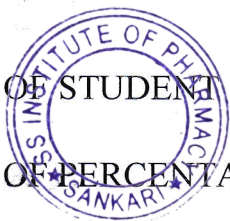*(A unit of VS Educational & Charitable Trust)*

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31.	PAPITHA .V	560020523531	14	93%
32.	PRAGATHI .P	560020523532	15	100%
33.	PRASANTH .M	560020523533	13	86%
34.	PRIYADARSHINI .V	560020523534	13	86%
35.	RAJALAKSHMI .N	560020523535	13	86%
36.	RAJARAJAN .M	560020523536	13	86%
37.	SATHISHKUMAR .J	560020523537	15	100%
38.	SHIRLEY ELIZABETH.I	560020523538	13	86%
39.	SIVA S.V	560020523539	14	93%
40.	SIVAPRAKASH .V	560020523540	15	100%
41.	SUDHA D.G	560020523541	13	86%
42.	SUNDARAKANNAN .D	560020523542	13	86%
43.	SURIYA .G	560020523543	12	80%
44.	SWATHY .M	560020523544	13	86%
45.	SYED YASIN S.M	560020523545	12	80%
46.	TAMILARASAN .A	560020523546	15	100%
47.	THAMIZHARASAN .N	560020523547	15	100%
48.	THILAGAVATHI .M	560020523548	13	86%
49.	THIRUMURUGAN .R	560020523549	13	86%
50.	UMAVATHI .P	560020523550	14	93%
51.	VALLARASU.D	560020523551	14	93%
52.	VASANTHRAJ .S	560020523552	13	86%
53.	VINOTH SANJAY.T	560020523553	13	86%
54.	VINOTH .S	560020523554	13	86%
55.	VISHWA .M	560020523555	13	86%
56.	VISHWANATHAN .V	560020523556	13	86%
57.	CHANDURU .R	560021523561	15	100%
58.	NISHA .P	560021523562	13	86%

TOTAL NUMBER OF STUDENT : 58

TOTAL NUMBER OF PERCENTAGE : 89.4%

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ADD ON COURSE : SUMMARY REPORT

Course code and Name : 22AIUPP08/ Artificial Intelligence Using Prolog Programming

Date Of Add On Programme : 19/12/2022 to 26/12/2022

Course Duration : 35 Hours

Year Offered : 3rd Sem B.Pharm

Course Instructors : C.Kalaiselvi.,M.Pharm,(Ph.D).

Course Outcomes :

> ➢ Students will gain proficiency in prolog programming, including understanding its syntax, semantics, and core constructs. The course covers fundamental ai concepts and demonstrates how these concepts can be implemented using prolog, focusing on logic-based reasoning and knowledge representation. Participants will learn to use prolog for developing expert systems, solving complex problems through techniques like recursion and backtracking, and implementing search algorithms such as depth-first and breadth-first search

Course Type : Add on Course

Assessment Mode:

Total Duration : 35 Hours

Number of Participants : 58

Scheme of Exam : MCQ type, offline Mode

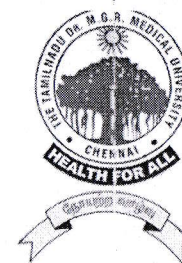**Date of Exam** : 26/12/2022

Course Coordinator

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Certificate of Participation

G. GIULBAHAR

Has appreciated for his /her participation in VALUE ADDED COURSE On
ARTIFICIAL INTELLIGENCE USING PROLOG PROGRAMMING
19/12/2022 TO 26/12/2022

COORDINATOR

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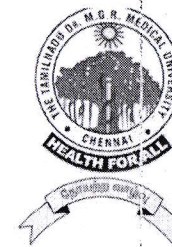SS INSTITUTE OF PHARMACY,
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M . THILAGAVATHI

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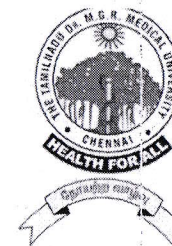
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Certificate of Participation

S. ANBU SELVI

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19/12/2022 TO 26/12/2022

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STUDENT FEEDBACK FORM

STUDENT NAME: S. Vinoth   DATE: 26.12.2022

YEAR/COURSE: B.Pharm - III sem

NAME OF THE ADD ON COURSE: Artificial intelligence in prolog programming

COURSE CODE: 22AIPPO8   DURATION: 35 hrs.

EVALUATE HONESTLY:

Questions	Excellent	Good	Fair	Poor
How was the objectives of the training	✓			
How satisfied are you with our seminar			✓	
How would you rate the clarity and effectiveness of the presenter's delivery	✓			
Was the seminar duration appropriate		✓		
How engaging and interactive was the seminar	✓			
Usefulness of the information provided		✓		
Overall quality of session	✓			

SIGNATURE

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PHOTOGRAPH

DATE : 20/12/22

ARTIFICIAL INTELLIGENCE USING PROLOG

PROGRAMMING

NAME OF ADD ON COURSE : **ARTIFICIAL INTELLIGENCE USING PROLOG PROGRAMMING**

COURSE INSTRUCTORS : **C.KALAISELVI**

YEAR OFFERED : **3rd SEM B.PHARM**

COURSE DURATION : **35 hrs**

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Sangagiri, Tamil Nadu 637303, India
Long 77.875150°
Lat 11.499652°
14/2/2024 03:09 PM

Add-on course regarding the Topic Application of Artificial Intelligence Using Prolog Programming 20/12/22 the speech delivered By **C.Kalaiselvi.,M.Pharm,(Ph.D)**. which was an interactive session and students could able to understand the Application of Intelligence Using Prolog Programming in the fields of pharmaceutical sciences

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