



# **St. Michael's College, Cherthala**

**Alappuzha, Kerala-688 539**

**Affiliated to University of Kerala  
and Re-accredited by NAAC with 'A' Grade**



**ADD ON COURSE 2019-20**

**Name of the Programme : BASICS OF AI**

**Name of the Department : SOFTWARE DEVELOPMENT**

**Course Code : SD 318**



# St. Michael's College

MAYITHARA P.O., CHERTHALA, ALAPPUZHA-688539

An institution with Minority Status Affiliated to the University of Kerala and  
Re-accredited by NAAC with 'A' Grade

## Add on Course - 2019-20

### COMMERCE

Basic Corporate  
Accountant  
Program

### MATHEMATICS

Introduction to  
Mathematical  
thinking

### SOFTWARE DEVELOPMENT

Basics of AI

### PHYSICS

Robotics

### ENGLISH

Business  
Benchmark

### ENGLISH

Certificate Course

Remedial  
Grammar and  
Public  
Speaking

### TOURISM STUDIES

Customer  
Service  
Management

### CHEMISTRY

Green Chemistry  
and Environmental  
Sustainability



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**NAME OF COURSE : BASICS OF ARTIFICIAL INTELLIGENCE**

**COURSE CODE : SD 318**

**NO OF STUDENTS ENROLLED : 46**

**CONTENTS**

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# **BASICS OF ARTIFICIAL INTELLIGENCE**

## **COURSE STRUCTURE**

**Module I (10 hrs): Introduction to AI**

**Module II (10 hrs): Introduction to searching**

**Module III (10 hrs): Applications of AI**

## **Detailed syllabus of the course**

**UNIT I** :(Introduction to AI, Intelligent Agents and Searching) Definition of AI, birth of AI, brief history, Turing test, Types of environment, Types of agents, PEAS (Performance measure, Environment, Actuators, Sensors),

**UNIT II**: Introduction to searching, State Space, SAGP (State, Action, Goal test, Path cost), DFS, BFS (Completeness, Time complexity, Space complexity, Optimality),

**UNIT III**: Heuristics, Local Search Algorithm, Hill Climbing. Applications of Artificial Intelligence in real word.

## **Programme Objectives**

1. Understand concepts of Artificial Intelligence and different types of intelligent agents and their architecture.
2. Formulate problems as state space search problem & efficiently solve them.
3. Understand the working of various informed and uninformed searching algorithms and different heuristics

**Duration of the programme:** 30hrs (either in the evening of regular working days or Saturdays)

## **Scope of the Course**

With a curriculum centred on utilizing complex inputs, such as vision, language, and large databases, to make decisions or augment human abilities, the program offers a deep dive into various fields including Computer Science, Mathematics, Statistics, Computational Modelling, Machine Learning, and Symbolic Computation.

### **Details of students enrolled**

Discipline: BVoc Software Development

Course Title: Basics of AI

<b>NO</b>	<b>Name</b>	<b>Student enrolment number</b>
1	<b>AJAY P ASHOK</b>	<b>35117136001</b>
2	<b>AKSHAI M S</b>	<b>35117136002</b>
3	<b>ALOSIOUS P F</b>	<b>35117136003</b>
4	<b>AMRUTHA S NAIR</b>	<b>35117136004</b>
5	<b>AMRUTHA SHAJI S</b>	<b>35117136005</b>
6	<b>ANANTHU KRISHNAN R</b>	<b>35117136006</b>
7	<b>ANILA G ALOCIOUS</b>	<b>35117136007</b>
8	<b>AROMAL A</b>	<b>35117136008</b>
9	<b>ASNA N</b>	<b>35117136009</b>
10	<b>ASWATHI A</b>	<b>35117136010</b>
11	<b>ATHUL S</b>	<b>35117136011</b>
12	<b>ATHULYA N</b>	<b>35117136012</b>
13	<b>DILEEP KUMAR S</b>	<b>35117136013</b>
14	<b>EMMANUEL K J</b>	<b>35117136014</b>
15	<b>ENOSH FRANCLIN</b>	<b>35117136015</b>
16	<b>GAGAN RAJU</b>	<b>35117136016</b>
17	<b>GOKUL RAJ</b>	<b>35117136017</b>
18	<b>GOPIKA S</b>	<b>35117136018</b>
19	<b>HARIKRISHNA B</b>	<b>35117136019</b>

20	<b>HARITHAMOL V H</b>	<b>35117136020</b>
21	<b>HELWIN DINO P H</b>	<b>35117136021</b>
22	<b>JELENA DOMINIC</b>	<b>35117136022</b>
23	<b>JINITHA K G</b>	<b>35117136023</b>
24	<b>JITHIN THOMAS</b>	<b>35117136025</b>
25	<b>JOSE A B</b>	<b>35117136026</b>
26	<b>JOYAL M J</b>	<b>35117136027</b>
27	<b>KRISHNADEV S</b>	<b>35117136028</b>
28	<b>MARIA ANTONY V. A</b>	<b>35117136029</b>
29	<b>MARY A T</b>	<b>35117136030</b>
30	<b>MEENUMOL M</b>	<b>35117136031</b>
31	<b>MOHAMMED AFSAL H</b>	<b>35117136032</b>
32	<b>MUNEER M</b>	<b>35117136033</b>
33	<b>NIRMAL MICHAEL</b>	<b>35117136035</b>
34	<b>PRAVEEN P</b>	<b>35117136036</b>
35	<b>SANDRA K A</b>	<b>35117136038</b>
36	<b>SARATH M R</b>	<b>35117136039</b>
37	<b>SHAN P J</b>	<b>35117136040</b>
38	<b>SHINEJIL MUKUND</b>	<b>35117136041</b>
39	<b>SREEDEV K J</b>	<b>35117136043</b>
40	<b>SRUTHY K B</b>	<b>35117136044</b>
41	<b>SURYA S</b>	<b>35117136045</b>
42	<b>THAMANNA FATHIMA FEROUZKHAN</b>	<b>35117136046</b>
43	<b>THEJAL JAMES</b>	<b>35117136047</b>
44	<b>TINU MARTIN</b>	<b>35117136048</b>
45	<b>TONEY SHAJI</b>	<b>35117136049</b>
46	<b>VISHNU.V</b>	<b>35117136050</b>

## Class schedule

<b>Schedule of Add on Course 2019-20</b>			
<b>Date</b>	<b>Day</b>	<b>Time</b>	<b>Faculty</b>
24-10-19	Thursday	3.30-4.30 PM	Geethu Varghese
28-10-19	Monday	3.30-4.30 PM	Pimmi Mathews
30-10-19	Wednesday	3.30-4.30 PM	Lekshmi M
1-11-20	Friday	3.30-4.30 PM	Pimmi Mathews
04-11-20	Monday	3.30-4.30 PM	Anisha Vineeth
06-11-20	Wednesday	3.30-4.30 PM	Geethu Varghese
11-11-20	Monday	3.30-4.30 PM	Anisha Vineeth
13-11-20	Wednesday	3.30-4.30 PM	Lekshmi M
15-11-20	Friday	3.30-4.30 PM	Anisha Vineeth
18-11-20	Monday	3.30-4.30 PM	Pimmi Mathews
21-11-20	Thursday	3.30-4.30 PM	Lekshmi M
23-11-19	Saturday	10-12 AM	Anisha Vineeth
25-11-19	Monday	3.30-4.30 PM	Geethu Varghese
27-11-19	Wednesday	3.30-4.30 PM	Anisha Vineeth
07-01-20	Tuesday	3.30-4.30 PM	Pimmi Mathews
09-01-20	Thursday	3.30-4.30 PM	Anisha Vineeth
13-01-20	Monday	3.30-4.30 PM	Lekshmi M
15-01-20	Wednesday	3.30-4.30 PM	Geethu Varghese
16-01-20	Thursday	3.30-4.30 PM	Anisha Vineeth
18-01-20	Saturday	10-12 AM	Pimmi Mathews
21-01-20	Tuesday	3.30-4.30 PM	Geethu Varghese
23-01-20	Thursday	3.30-4.30 PM	Lekshmi M
24-01-20	Friday	3.30-4.30 PM	Pimmi Mathews
27-01-20	Monday	3.30-4.30 PM	Lekshmi M
30-01-20	Thursday	3.30-4.30 PM	Geethu Varghese
03-02-20	Monday	3.30-4.30 PM	Pimmi Mathews
05-02-20	Wednesday	3.30-4.30 PM	Lekshmi M
06-02-20	Thursday	3.30-4.30 PM	Pimmi Mathews

## ATTENDANCE

<b>NO</b>	<b>Name</b>	<b>Student enrolment number</b>	<b>Percentage of attendance</b>	<b>Attained required percentage</b>
1	AJAY P ASHOK	35117136001	87	yes
2	AKSHAI M S	35117136002	90	yes
3	ALOSIOUS P F	35117136003	87	yes
4	AMRUTHA S NAIR	35117136004	93	yes
5	AMRUTHA SHAJI S	35117136005	90	yes
6	ANANTHU KRISHNAN R	35117136006	87	yes
7	ANILA G ALOCIOUS	35117136007	90	yes
8	AROMAL A	35117136008	97	yes
9	ASNA N	35117136009	93	yes
10	ASWATHI A	35117136010	97	yes
11	ATHUL S	35117136011	93	yes
12	ATHULYA N	35117136012	100	yes
13	DILEEP KUMAR S	35117136013	90	yes
14	EMMANUEL K J	35117136014	97	yes
15	ENOSH FRANCLIN	35117136015	97	yes
16	GAGAN RAJU	35117136016	90	yes
17	GOKUL RAJ	35117136017	90	yes
18	GOPIKA S	35117136018	87	yes
19	HARIKRISHNA B	35117136019	93	yes
20	HARITHAMOL V H	35117136020	90	yes
21	HELWIN DINO P H	35117136021	87	yes
22	JELENA DOMINIC	35117136022	93	yes
23	JINITHA K G	35117136023	97	yes
24	JITHIN THOMAS	35117136025	100	yes
25	JOSE A B	35117136026	87	yes
26	JOYAL M J	35117136027	97	yes



27	<b>KRISHNADEV S</b>	<b>35117136028</b>	<b>97</b>	<b>yes</b>
28	<b>MARIA ANTONY V. A</b>	<b>35117136029</b>	<b>100</b>	<b>yes</b>
29	<b>MARY A T</b>	<b>35117136030</b>	<b>87</b>	<b>yes</b>
30	<b>MEENUMOL M</b>	<b>35117136031</b>	<b>97</b>	<b>yes</b>
31	<b>MOHAMMED AFSAL H</b>	<b>35117136032</b>	<b>87</b>	<b>yes</b>
32	<b>MUNEER M</b>	<b>35117136033</b>	<b>97</b>	<b>yes</b>
33	<b>NIRMAL MICHAEL</b>	<b>35117136035</b>	<b>93</b>	<b>yes</b>
34	<b>PRAVEEN P</b>	<b>35117136036</b>	<b>90</b>	<b>yes</b>
35	<b>SANDRA K A</b>	<b>35117136038</b>	<b>97</b>	<b>yes</b>
36	<b>SARATH M R</b>	<b>35117136039</b>	<b>93</b>	<b>yes</b>
37	<b>SHAN P J</b>	<b>35117136040</b>	<b>90</b>	<b>yes</b>
38	<b>SHINEJIL MUKUND</b>	<b>35117136041</b>	<b>87</b>	<b>yes</b>
39	<b>SREEDEV K J</b>	<b>35117136043</b>	<b>93</b>	<b>yes</b>
40	<b>SRUTHY K B</b>	<b>35117136044</b>	<b>93</b>	<b>yes</b>
41	<b>SURYA S</b>	<b>35117136045</b>	<b>97</b>	<b>yes</b>
42	<b>THAMANNA FATHIMA FEROZKHAN</b>	<b>35117136046</b>	<b>87</b>	<b>yes</b>
43	<b>THEJAL JAMES</b>	<b>35117136047</b>	<b>100</b>	<b>yes</b>
44	<b>TINU MARTIN</b>	<b>35117136048</b>	<b>90</b>	<b>yes</b>
45	<b>TONEY SHAJI</b>	<b>35117136049</b>	<b>93</b>	<b>yes</b>
46	<b>VISHNU.V</b>	<b>35117136050</b>	<b>93</b>	<b>yes</b>

St. Michael's College, Cherthala

BVoc Software Development

Add-On Course

Basics of AI

Time:

1hr

Mark

s:30

**PART A (Answer all questions)**

**10x1=10**

**Marks**

1.What is AI?

2.Define an agent.

3.Who is the inventor of Artificial Intelligence?

4.List any two branches of AI.

5.What is the function of an Artificial Intelligence “Agent”?

6.Which is commonly used programming language for Artificial Intelligence?

7.Face Recognition system is based on which type of approach?

8.If a machine can change its course of action based on the external environment on its own, the machine is called?

9.If a machine can change its course of action based on the external environment on its own, the machine is called?

10.Machines that try to imitate human intuition while handling vague information lie in the field of AI called?

**PART B (Answer any 5 questions)**

**2x5=10**

**Marks**

11. What can Ai do today?
12. Differentiate an agent function and an agent program.
13. What is a task environment? How it is specified?
14. What is a task environment? How it is specified?
15. List the properties of task environments.
16. What are the four different kinds of agent programs?
17. What are learning agents?
18. Define the problem-solving agent.

**PART C (Answer any 1 question )**  
**Marks**

**1x10=10**

19. Explain about DFS and BFS.
20. Discuss about Applications of Artificial Intelligence in real word.

St. Michael's College Cherthala

Mark List

Date of examination:

S.NO	Name	Candidate Code	Max. marks	Marks obtained
1	AJAY P ASHOK	35117136001	30	25
2	AKSHAI M S	35117136002	30	27
3	ALOSIOUS P F	35117136003	30	28
4	AMRUTHA S NAIR	35117136004	30	26
5	AMRUTHA SHAJI S	35117136005	30	24
6	ANANTHU KRISHNAN R	35117136006	30	23
7	ANILA G ALOCIOUS	35117136007	30	25
8	AROMAL A	35117136008	30	22
9	ASNA N	35117136009	30	19
10	ASWATHI A	35117136010	30	23
11	ATHUL S	35117136011	30	20
12	ATHULYA N	35117136012	30	20
13	DILEEP KUMAR S	35117136013	30	AB
14	EMMANUEL K J	35117136014	30	23
15	ENOSH FRANCLIN	35117136015	30	22
16	GAGAN RAJU	35117136016	30	AB
17	GOKUL RAJ	35117136017	30	25
18	GOPIKA S	35117136018	30	24
19	HARIKRISHNA B	35117136019	30	23
20	HARITHAMOL V H	35117136020	30	21
21	HELWIN DINO P H	35117136021	30	23
22	JELENA DOMINIC	35117136022	30	21
23	JINITHA K G	35117136023	30	32
24	JITHIN THOMAS	35117136025	30	24
25	JOSE A B	35117136026	30	21
26	JOYAL M J	35117136027	30	25
27	KRISHNADEV S	35117136028	30	26
28	MARIA ANTONY V. A	35117136029	30	23
29	MARY A T	35117136030	30	24
30	MEENUMOL M	35117136031	30	25

31	<b>MOHAMMED AFSAL H</b>	<b>35117136032</b>	<b>30</b>	<b>18</b>
32	<b>MUNEER M</b>	<b>35117136033</b>	<b>30</b>	<b>17</b>
33	<b>NIRMAL MICHAEL</b>	<b>35117136035</b>	<b>30</b>	<b>AB</b>
34	<b>PRAVEEN P</b>	<b>35117136036</b>	<b>30</b>	<b>26</b>
35	<b>SANDRA K A</b>	<b>35117136038</b>	<b>30</b>	<b>27</b>
36	<b>SARATH M R</b>	<b>35117136039</b>	<b>30</b>	<b>28</b>
37	<b>SHAN P J</b>	<b>35117136040</b>	<b>30</b>	<b>23</b>
38	<b>SHINEJIL MUKUND</b>	<b>35117136041</b>	<b>30</b>	<b>24</b>
39	<b>SREEDEV K J</b>	<b>35117136043</b>	<b>30</b>	<b>18</b>
40	<b>SRUTHY K B</b>	<b>35117136044</b>	<b>30</b>	<b>20</b>
41	<b>SURYA S</b>	<b>35117136045</b>	<b>30</b>	<b>21</b>
42	<b>THAMANNA FATHIMA FEROZKHAN</b>	<b>35117136046</b>	<b>30</b>	<b>23</b>
43	<b>THEJAL JAMES</b>	<b>35117136047</b>	<b>30</b>	<b>24</b>
44	<b>TINU MARTIN</b>	<b>35117136048</b>	<b>30</b>	<b>25</b>
45	<b>TONEY SHAJI</b>	<b>35117136049</b>	<b>30</b>	<b>26</b>
46	<b>VISHNU.V</b>	<b>35117136050</b>	<b>30</b>	<b>24</b>





**ST. MICHAEL'S COLLEGE**

**CHERTHALA, ALAPPUZHA - 688 539**

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## **ADD-ON COURSE CERTIFICATE**

*This is to certify that* **Mr. ATHUL S (35117136011)** .....  
**B.Voc Software Development 2017 Admission** ..... *has completed*  
*Certificate/Add-on course in* **Basics of AI (SD 318)** .....  
..... *offered by the Department of Software*  
*Development during the academic year 2019-2020. He/She is awarded with* ..... **A** ..... *Grade.*

**Head of the  
Department**

**Course  
Coordinator**

**Principal**

## **Add-On Course (2019-20)**

### **Subject: BASICS OF ARTIFICIAL INTELLIGENCE**

In the academic year 2019-20, BVoc Software Development spearheaded a dynamic 30-hour Add-On Course on the Basics of Artificial Intelligence, captivating the interest of 46 dedicated participants. The course unfolded in three insightful modules: Introduction to AI, delving into the foundational principles of artificial intelligence; Introduction to Searching, exploring algorithms fundamental to AI; and Applications of AI, showcasing real-world scenarios where AI is applied. The program embraced an interactive approach, seamlessly blending theoretical knowledge with practical applications. Through engaging sessions and hands-on projects, participants not only comprehended the rudiments of AI but also discerned its diverse applications. BVoc's commitment to providing a robust foundation in artificial intelligence was evident as participants concluded the program with enriched insights, poised to navigate the evolving landscape of AI with newfound expertise. Date of examination: 13/02/2020



  
*Principal*  
*St. Michael's College*  
*Cherthala*