



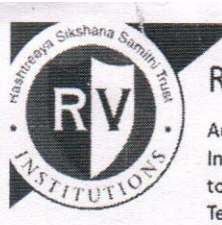
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**INTERNAL QUALITY ASSURANCE CELL**

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**INDEX SHEET**

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# RV College of Engineering®

Autonomous  
Institution Affiliated  
to Visvesvaraya  
Technological  
University, Belagavi

Approved by AICTE  
New Delhi

## Department: Artificial Intelligence & Machine Learning

### Program: B.E. (Artificial Intelligence & Machine Learning)

The following are the new courses added in the curricula in the respective curricular revisions made in 2021 schemes. Curricular revisions were discussed thoroughly at the respective Board of Studies meetings. The new courses added are reflected in the revised curricula with the course codes.

Sl. No.	Title of the new course added	Course code	Scheme in which the new course is added
1	Data Structures and Data Analysis	21AI33	2021
2	Foundations of Cyber Physical Systems	21AI34	2021
3	Statistics for Data Science	21AI41	2021
4	Data Base Management System	21AI44	2021
5	Object Oriented Programming Using Java	21CS49	2021

**BoS-CHAIRMAN**  
(Artificial Intelligence  
& Machine Learning)

**DEAN ACADEMICS**  
**DEAN ACADEMICS**  
R.V. College of Engineering  
Bengaluru - 560 059

**PRINCIPAL**  
**PRINCIPAL**  
RV COLLEGE OF ENGINEERING  
BENGALURU - 560 059



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## From Dr. B. Sathish Babu, RVCE - BoS meeting regarding

---

Dr. B Sathish Babu <bsbabu@rvce.edu.in>  
To: Shrisha Rao <srao@iiitb.ac.in>  
Cc: "Vijayalakshmi M.N." <vijayalakshmi@rvce.edu.in>

Fri, Mar 4, 2022 at 3:30 PM

Dear Sir,

Greetings!!

I am happy to state that your name has been selected as one of the members of BoS of the department of AI & ML, RV College of Engineering.

We thank you profusely for accepting our request.

Sir, we need to conduct the first BoS meeting to finalize the scheme and syllabus of the second year (3rd and 4th Sem.). In this regard, we are planning to hold the BoS meeting on 12th/March/2022 (Saturday) at 10 AM in RVCE Campus.

I would like to know your availability for the same, and also I request you to share with us your CV for our records.

Regards,

--

---

With Best Wishes

Dr. B. SATHISH BABU,  
PROFESSOR & HOD,  
DEPT. OF AIML, RVCE, BENGALURU

Ph: 9844488329, Landline: 080-6818 8278

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## From Dr. B. Sathish Babu, RVCE - BoS meeting regarding

---

Dr. B Sathish Babu <bsbabu@rvce.edu.in>  
To: raghavendra.ec.et@msruas.ac.in  
Cc: "Vijayalakshmi M.N." <vijayalakshmi@rvce.edu.in>

Fri, Mar 4, 2022 at 3:29 PM

Dear Sir,

Greetings!!

I am happy to state that your name has been selected as one of the members of BoS of the department of AI & ML, RV College of Engineering.

We thank you profusely for accepting our request.

Sir, we need to conduct the first BoS meeting to finalize the scheme and syllabus of the second year (3rd and 4th Sem.). In this regard, we are planning to hold the BoS meeting on 12th/March/2022 (Saturday) at 10 AM in RVCE Campus.

I would like to know your availability for the same, and also I request you to share with us your CV for our records.

Regards,

---

With Best Wishes

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## Department of Artificial Intelligence and Machine Learning

www.rvce.edu.in; hod.ai@rvce.edu.in; (O) 080-6818 8278

### Online Meeting (Cisco Webex)

#### 1<sup>st</sup> BOARD OF STUDIES MEETING

Minutes of Meeting held on Saturday, March 12, 2022, at 10 AM

Agenda	Sub No.	Particulars
	01	About the Department
	02	Discussion on I year 2021 syllabus
	03	Discussion and Approval of II-year 2021 syllabus
	04	Any other subject/s
<b>Date</b>	Saturday 12 <sup>th</sup> March 2022	
<b>Time</b>	10 AM	
<b>Venue</b>	Online Meeting (Cisco Webex)	

Members Present				
#	Name	Designation	Organization	Remark
1.	Dr. Sathish Babu.B	Professor & Head, Chairperson	RVCE	P
2.	Dr. Shanmukha Nagaraj	Professor & Dean Academics	RVCE	P
3.	Dr. Shrisha Rao	Professor, Subject Expert, Member	IITB	P
4.	Dr.Raghavendra V Kulakarni	Professor, Subject Expert – Member	MSRU	A
5.	Dr. Madhan Kumar Srinivasan	Industry Expert- Member	Accenture	P
6.	Dr Prasad Sudhakar	Staff Scientist, Advanced Technology Group , Invitee(Now VTU Nominee)	GE Healthcare	P
7	Dr.Vijayalakshmi.M.N	Associate Professor, Member	RVCE	P
8.	Mr. Narasimha Swamy.S	Assistant Professor, Member	RVCE	P

Details of meeting minutes are attached.

<b>Sub. No.</b>	<b>01</b>
<b>Subject</b>	<b>About the Department</b>
Discussions & Resolutions	
<p>The Chairperson presented</p> <ul style="list-style-type: none"> <li>• The Vision and Mission of the AIML department were presented, along with the institutional vision and mission statements and the core aspects of NEP and RVCE's efforts to realize these aspects.</li> <li>• The Program Educational Objectives, Program Specific outcomes were also presented to the Members.</li> <li>• The Chairperson also stated the integration of the Experiential Learning component in the curriculum, as per one of the critical requirements in National Education Policy.</li> <li>• The achievements of the faculty members were presented.</li> </ul> <p>Dr. Shanmukha Nagaraj, Dean Academics, welcomed all the BoS members. He requested all the members to provide valuable inputs and suggestions in the best interest of the AIML department and briefed them about significant changes in the outcome of education by implementing National Education Policy by 2022. He outlined the requirements for interdisciplinary and multidisciplinary courses that need to be introduced in the curriculum. He also emphasized experiential learning, its importance in enhancing innovative and creative skills, and thought-provoking assessment. He also conveyed that every Program to collaborate with the industry and offer industry-based electives, if not completely, at least a unit or two can be dealt with by the industry personnel as this gives a platform for all the students to explore the latest techniques and technologies which have taken by the industry .</p>	

<b>Sub. No.</b>	<b>02</b>
<b>Subject</b>	<b>Discussion on I - Year 2021 Syllabus</b>
Discussions & Resolutions	
<p>The Chairperson presented the current First year, 2021 scheme syllabus to the members. Some of the salient features of the courses wise were highlighted. Programming in C - Dr. Madan Kumar Srinivasan suggested that more emphasis to be given to the programming language in the first year, which helps the students to build their basic skills.</p>	

<b>Sub. No.</b>	<b>03</b>
<b>Subject</b>	<b>Discussion on II - year 2021 syllabus</b>
Discussions & Resolutions	
<p>Dr. Vijayalakshmi presented the draft 2021 scheme of the Program for the III and IV semesters for the AIML branch.</p> <p><b>Mathematical Fundamentals for AI and ML</b> - Dr. Sathish Babu briefed the contents of the course, which Mathematics BoS gave. He said that the syllabus is framed as per Program's need, including Linear Algebra and Convex Optimization. The course also has the Experiential Learning Component to incorporate New Education Policy.</p> <p><b>Dr. Prasad</b> suggested including Numerical Methods of Linear Algebra instead of Laplace Transformation would help the students as the base for the Program. He also told to give a collaborative assignment which helps the students know the depth of the knowledge.</p> <p><b>Dr. Shrisha Rao</b> suggested that in-depth Linear Algebra can be given to students. He also suggested reframing the syllabus as this course is in the 3<sup>rd</sup> semester, and more emphases should be given to basics.</p> <p><b>Environmental Technology:</b> Dr. Vijayalakshmi briefed about the syllabus proposed by Bio-Technology BoS.</p> <p><b>Dr. Shrisha Rao</b> commented that topics like carbon emission, net carbon, energy consumption, energy wastage, and energy usage, the carbon cycle can be included. These things can be made mandatory.</p> <p><b>Dr. Prasad</b> said the placement is acceptable.</p> <p><b>Data Structures and Data Analysis</b> - Dr. Sathish babu briefed about the contents of the course proposed by AIML department. The first three units concentrated on the standard Data structures course inclusion of Stacks, Queues, Trees, and Graphs. He also briefed about the two units on data analysis which was introduced. In experiential learning, the data analysis is taken as an introduction with the case study, which can include cross-domain projects.</p> <p><b>Dr. Shrisha Rao</b> - The syllabus is fine.</p> <p><b>Dr. Madan Kumar</b> - Suggested to include foundation programming in C in 1<sup>st</sup> semester, basic data structure in 2<sup>nd</sup> semester can be included. Suggested advanced data structures can be included in the 3<sup>rd</sup> semester. He also suggested to include BI visualization tools which students will enjoy and also will have a visualization part . He told a python course can be started this semester only.</p>	

**Operating Systems** - Dr. Sathish babu briefed about the syllabus.

**Dr. Shrisha Rao** - This is fine and a classical course. This course seems to be underweight. Can bring in more advanced topics of the OS. Research topics can be considered.

**Foundations of Cyber-Physical Systems/Controllers of IoT** - Mr. Narasimha Swamy briefed about the course proposed by AIML department.

**Dr. Shrisha Rao** - Suggestion to include some topics on processor architecture. Custom hardware for the AI and ML can be included. FPGA and GPU issues that appear in data centers can be included and focus on the small microcontroller can be considered. He felt that as the subject starts directly with the systems, it will be better to include some processor architecture, without which students may not understand the subject. It would be nice to have an introduction to computer architecture by David Paterson and John Hennessy followed by the current syllabus. The lab experiments are fine.

**Dr. Prasad** - GPU, TPU, and neuromorphic architectures can be looked in the syllabus.

**Discrete Mathematical Structures** - Dr. Sathish Babu briefed the course to the members. The members did not have any comments on the course.

**Statistics for Data Science** - Dr. Sathish Babu briefed the course to the members proposed by AIML department.

**Dr. Shrisha Rao** - The course is fine.

**Dr. Prasad** - The course is fine.

**Biology for Engineers** - Dr. Vijayalakshmi briefed the course, and no suggestions were given

**Dr. Shrisha Rao** - Experiential learning can collaborate with Biology and ML.

**Dr. Prasad** - It can be integrated with classical statistics and some projects can be defined on it.

**Design and Analysis of the Algorithms** - Dr. Sathish Babu explained the course.

**Dr. Shrisha Rao** - The course is fine. Design the programming projects should be contemporary. There is a need for significant programming exposure that can be given. Students can be given some problem to solve algorithmically, given a problem try to find the best complexity of the problem.



**Dr. Prasad** - This is fundamentally required. Recommend the follow-up course, which includes Randomized algorithms approximations. Motivate students to take projects on it.

**Dr. Madan** - This is a fundamentally strong course that will connect to gate preparations.

**Database Management System** - Dr. Vijayalakshmi briefed the course, describing the lab experiments.

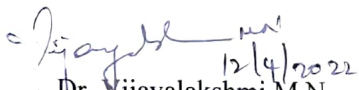
**Dr. Shrisha Rao** - The course is fine. This course can be divided into two courses.


**Computer Networks** - Dr. Sathish Babu briefed about the course.

**Dr. Shrisha Rao** - The course is well designed.

**Dr. Prasad** - This should be considered a system-level overview of the course.

The Chairperson thanked all the members for their valuable time and participation in the BoS meeting. He said the changes suggested and inputs given by the honorable members of the BoS will be considered for the syllabus revision.

  
12/04/2022  
Dr. Vijayalakshmi M.N.  
Associate Professor & BoS Coordinator  
Dept. of AIML, RVCE

  
12/04/2022  
Dr. B. Sathish Babu  
HoD & Chairperson, BOS  
Dept. of AIML, RVCE

**Professor and HoD**  
**Dept. of Artificial Intelligence**  
**& Machine Learning**  
**RV College of Engineering**  
**Mysuru Road, Bengaluru - 560059**



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HoD, Department of AI and ML <hod.ai@rvce.edu.in>

## ONLINE BOS Meeting Invitation - RV College of Engineering

HoD, Department of AI and ML <hod.ai@rvce.edu.in>

Thu, Dec 1, 2022 at 12:45 PM

To: "Prof. Shrisha Rao" <srao@iiitb.ac.in>, Prasad Sudhakar <prasad.sudhakar@gmail.com>, "Dr. Madhan Kumar Srinivasan" <madhankrs@gmail.com>

Cc: Artificial Intelligence and Machine Learning - Faculty <ai\_faculty@rvce.edu.in>, Dean Academics R V College of Engineering <dean.academics@rvce.edu.in>

Dear Sir,

Greetings.

The BOS meeting of the department of Artificial Intelligence and Machine learning is scheduled on 03/12/2022 (Saturday) at 2 PM.

Agenda:

1. To discuss the emerging technology and programming courses to be offered to the 2022 admission batch.
2. Other developments in the department

Please find below the link to join the meeting:

<https://rvce.webex.com/rvce/j.php?MTID=me8ba1beedf6c6f02d3f7256b0ce6d251>

Thanking you,

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With Best Wishes

Dr. B. SATHISH BABU,  
PROFESSOR & HOD,  
DEPT. OF AIML, RVCE, BENGALURU

Ph: 9844488329, Landline: 080-6818 8278

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## Department of Artificial Intelligence and Machine Learning

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### Online Meeting (Cisco Webex)

#### 2<sup>nd</sup> BOARD OF STUDIES MEETING

Minutes of Meeting held on Saturday, December 03, 2022, at 02 AM

Agenda	Sub No.	Particulars
	05	About the Department
	06	Discussion and Approval of I year 2022 syllabus of a. Python Programming - Programming Language Course b. Introduction to IoT - Emerging Technology Course
	07	Any other subject/s
<b>Date</b>	Saturday, December 03, 2022	
<b>Time</b>	02 PM	
<b>Venue</b>	Online Meeting (Cisco Webex)	

Members Present				
#	Name	Designation	Organization	Remark
1.	Dr. Sathish Babu. B	Professor & Head - Chairperson	RVCE	P
2.	Dr. Shanmukha Nagaraj	Professor & Dean Academics	RVCE	P
3.	Dr. Shrisha Rao	Professor, Subject Expert - Member	IITB	P
4.	Dr.Raghavendra V Kulakarni	Professor, Subject Expert – Member	MSRU	A
5.	Dr. Madhan Kumar Srinivasan	Industry Expert- Member	Accenture	P
6.	Dr. Prasad Sudhakar	Staff Scientist, Advanced Technology Group - VTU Nominee	GE Healthcare	P
7	Dr. Vijayalakshmi.M.N	Associate Professor, Member	RVCE	P
8.	Mr. Narasimha Swamy.S	Assistant Professor, Member	RVCE	P
9.	Mr.Somesh Nandi	Assistant Professor, Member	RVCE	P
10	Mr. Rajesh R M	Assistant Professor, Member	RVCE	P


Details of meeting minutes are attached.

<b>Sub. No.</b>	<b>05</b>
<b>Subject</b>	<b>About the Department</b>
Discussions & Resolutions	
<p>The Chairperson presented</p> <ul style="list-style-type: none"><li>• The Vision and Mission of the AIML department were presented, along with the institutional vision and mission statements and the core aspects of NEP and RVCE's efforts to realize these aspects.</li><li>• The Program Educational Objectives and Program Specific outcomes were also presented to the Members.</li><li>• The Chairperson also stated the integration of the Experiential Learning component in the curriculum as one of the critical requirements of the National Education Policy.</li><li>• The introduction of the new faculty members was done.</li><li>• The various activities carried out by faculty, student, and the department was presented</li><li>• The Chairperson also presented the new scheme -2022 scheme and explained the change in the scheme</li><li>• The presentation also included the different options which a student can opt for depending on his branch of study</li><li>• Some of the courses in baskets of courses from the Programming Language course and Emerging Technology Course.</li></ul> <p>Dr. Shanmukha Nagaraj, Dean of Academics, welcomed all the BoS members. He requested all the members to provide valuable inputs and suggestions in the best interest of the AIML department and briefed them about significant changes in the outcome of education by implementing National Education Policy by 2022. He outlined the requirements for interdisciplinary and multidisciplinary courses that must be introduced in the curriculum. He also emphasized experiential learning, its importance in enhancing innovative and creative skills, and thought-provoking assessment. He also conveyed that every program collaborates with the industry and offers industry-based electives. If not completely, at least a unit or two can be dealt with by the industry personnel as this gives a platform for all the students to explore the latest techniques and technologies which the industry has taken.</p>	

<b>Sub. No.</b>	<b>06</b>
<b>Subject</b>	<b>Discussion on I - Year 2022 Syllabus</b>
Discussions & Resolutions	
<p>Prof. Narasimhaswamy.S presented the course Python Programming from the Basket of Programming Language Course</p> <p><b>Dr. Prasad</b> - The course is well designed</p> <p><b>Dr. Shrisha Rao</b> - The content of the course is light. Since students have already studied these courses, suggested to include the advanced concepts also. Some amount of exposure to python libraries can be included, which helps them in machine learning courses and advanced topics in Machine Learning. Give more realistic problems which help them in further courses.</p> <p><b>Dr. Madhan Kumar Srinivasan</b>- The content is good. Adding the concepts of Object Oriented programming and a bit of regular expression was suggested, which is more attractive to students.</p> <p>Prof. Vijayalakshmi. M.N presented the course Introduction to Internet of Things from the Basket of Emerging Technology Course</p> <p><b>Dr. Shrisha Rao</b> - If the lab is incorporated, it will be useful</p> <p><b>Dr. Prasad</b> - The lab component can be included. Include demonstration during the course of delivery.</p> <p><b>Dr. Madhan Kumar Srinivasan</b> - It covers a vast aspect of the course. Sir suggested including some good case studies, projects, and some IoT standards, which give more exposure to the students.</p>	

The Chairperson thanked all the members for their valuable time and participation in the BoS meeting. He said the changes suggested and inputs given by the honorable members of the BoS will be considered to include in the syllabus.

  
Dr. Vijayalakshmi M N

  
Dr. B. Sathish Babu

Dr Sathish Babu , HoD, discussed the about the incorporation of the suggestions given by the Board of Studies members during the meeting conducted on 12<sup>th</sup> March 2022.

<b>Suggestions</b>	<b>Action Taken</b>
Dr Madhan Kumar suggested the inclusion of BI visualization tools for effective data visualization for effective data analysis for the DSDA course	Incorporated as a lab skill course
Dr Shrisha Rao suggested to include architecture for the FCPS course	Syllabus is refined accordingly
For the subject Design and Analysis of algorithm, Dr Shrisha Rao suggested give problems to solve algorithmically and for a given problem find the complexity of the solution. Its also suggested to give significant programming exposure	Suggestion is incorporated in the lab cycles and Experiential learning component



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## BOS Meeting - 15/06/2023

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HoD, Department of AI and ML <hod.ai@rvce.edu.in>

Mon, Jun 12, 2023 at 10:34 AM

To: Prasad Sudhakar <prasad.sudhakar@gmail.com>, "Dr. Madhan Kumar Srinivasan" <madhankrs@gmail.com>

Cc: Artificial Intelligence and Machine Learning - Faculty <ai\_faculty@rvce.edu.in>, Artificial Intelligence and Machine Learning - Non Teaching Staff <ai\_nts@rvce.edu.in>, Dean Academics R V College of Engineering <dean.academics@rvce.edu.in>

Dear Sir,

Greetings.

The BOS meeting of the department of Artificial Intelligence and Machine learning is scheduled on 15/06/2023 (Thursday) at 10 AM, to finalise the second year - 2022 Scheme & Syllabus and third year - 2021 scheme and syllabus.

We request you to kindly consider our invitation and attend the same.

**Venue: CoE Lab, II Floor, MCA Building, RVCE**

Please ack.

Thanking you,

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With Best Wishes

Dr. B. SATHISH BABU,  
PROFESSOR & HOD,  
DEPT. OF AIML, RVCE, BENGALURU

Ph: 9844488329, Landline: 080-6818 8278

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# RV College of Engineering®

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Approved by AICTE,  
New Delhi,

## Department of Artificial Intelligence and Machine Learning

Phone: 080-68188278 e-mail: [hod.ai@rvce.edu.in](mailto:hod.ai@rvce.edu.in)

The following members were present for the 3<sup>rd</sup> BoS meeting.

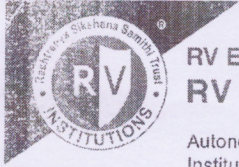
Sln0	Name	Signature
1	Dr. Madhan Kumar Srinivasan	
2	PRASAD SUDHAKAR	
3	Prof. Somesh Nandi	
4	Prof. Sowika. C. T.	
5	Prof. Rajesh RM	
6	Dr. Vijayalakshmi - M - N	
7	Prof. Narasimha. S	
8		
9		
10		

Dr. B. Sathish Babu,

15-06-2023

Professor and HoD, Dept. of AIML, RVCE





## Department of Artificial Intelligence and Machine Learning

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### 3<sup>rd</sup> BOARD OF STUDIES MEETING

## Minutes of Meeting

Agenda	Sub No.	Particulars
	08	To read and record the minutes of the previous BoS meeting held on 3/12/2022 (Online).
	09	Brief report on the department and ratification and identification of new NPTEL-MOOC courses for Elective-A of 2021 scheme.
	10	Discussion and Approval of a. III year - 2021 scheme and syllabus b. II year – 2022 scheme and syllabus
	11	Any other subject/s
<b>Date</b>	Thursday, June 15, 2023	
<b>Time</b>	10:00 AM	
<b>Venue</b>	CoE Lab, AIML Department, RVCE	

Members Present				
#	Name	Designation	Organization	Remark
1.	Dr. Sathish Babu. B	Professor & Head - Chairperson	RVCE	P
2.	Dr. Shanmukha Nagaraj	Professor & Dean Academics	RVCE	P
3.	Dr. Shrisha Rao	Professor, Subject Expert - Member	IIT-B	A
4.	Dr.Raghavendra V Kulakarni	Professor, Subject Expert – Member	MSRU	A
5.	Dr. Madhan Kumar Srinivasan	Industry Expert- Member	CEO, Wise Work & 5x Founder	P
6.	Dr. Prasad Sudhakar	Staff Scientist, Advanced Technology Group - VTU Nominee	GE Healthcare	P
7.	Mr.Sanjay Seetharam Naidu	Research and Full Stack Data Practitioner , Alumnus - Invitee	Prompt Engineering	P
8.	Dr.Vijayalakshmi.M.N	Associate Professor, Member	RVCE	P



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### 3<sup>rd</sup> BOARD OF STUDIES MEETING

9.	Prof. Narasimha Swamy.S	Assistant Professor, Member	RVCE	P
10.	Prof.Somesh Nandi	Assistant Professor, Invitee	RVCE	P
11.	Prof. Rajesh R M	Assistant Professor, Invitee	RVCE	P

The Chairman, BoS, welcomed all the members of the Board of Studies and the attendees. The details of the discussion on each agenda point are presented below.

<b>Sub. No.</b>	<b>08</b>
<b>Subject</b>	<b>To read and record the minutes of the previous BoS meeting held on 3/12/2022 (Online).</b>
Discussions & Resolutions	
<ul style="list-style-type: none"> <li>The minutes of the previous meeting held on 03/12/2022 were briefed by the BoS chairperson.</li> <li>The previous meeting had approved Cluster wise UG-BE CSE 2022 Scheme. It also had approved draft Cluster wise course content for the courses offered by AIML Department in 1st Year.</li> </ul>	

<b>Sub. No.</b>	<b>09</b>
<b>Subject</b>	<b>Brief report on the department and ratification and identification of new NPTEL-MOOC courses for Elective-A of 2021 scheme.</b>
Discussions & Resolutions	
<ul style="list-style-type: none"> <li>The chairman appraised the members about the increased intake of the department for the Year 2022-23 from 60 to 120.</li> <li>The chairman presented the previous admission statistics and results of examinations held.</li> <li>The various activities carried out under the Boston Center of Excellence were presented.</li> <li>The various activities of industrial connect/consultancy carried out by faculty, student, and the department were presented.</li> <li>Presented the syllabus and took approval to include two NPTEL-Courses, namely Game Theory and Operations Research, in the present 2021 scheme Elective-A due to the unavailability of some courses in the previous syllabus.</li> <li>As per the suggestions in the 2<sup>nd</sup> BOS meeting from the members, the appropriate actions were taken for all the suggestions mentioned and same was brought to the notice of the members.</li> <li>Action taken on the feedback by the stake holders was discussed.</li> </ul>	

Dr Sathish Babu, HoD, discussed the about the incorporation of the suggestions given by the Board of Studies members during the meeting conducted on 3<sup>rd</sup> December 2022.

<b>Suggestions</b>	<b>Action Taken</b>
Dr Shrisha Rao expressed the views on inclusion of Python libraries in the syllabus	Students were encouraged to implement python libraries as a part of the EL component
Dr Madhan Kumar suggested to include OOPs concepts in the syllabus	One entire unit is designed based on the OOPs concepts
Dr Madhan Kumar suggested including case studies and projects	Students implemented different projects as a part of EL component



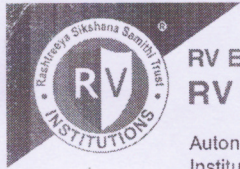
## Department of Artificial Intelligence and Machine Learning

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### 3<sup>rd</sup> BOARD OF STUDIES MEETING

- Presented the syllabus and took approval to include two NPTEL-Courses, namely Game Theory and Operations Research, in the present 2021 scheme Elective-A due to the unavailability of some courses in the previous syllabus.

Sub. No.	10
Subject	Discussion on III - Year 2021 Scheme and Syllabus and II year – 2022 Scheme and Syllabus
Discussions & Resolutions	
<b>III - YEAR 2021 SCHEME AND SYLLABUS</b>	
<p><b>Course 1: Introduction to Artificial Intelligence</b></p> <ul style="list-style-type: none"> <li>Dr. Sathish Babu B presented the syllabus.</li> <li>Dr. Prasad opined that the course is well designed and sought clarification on the follow-up course for the same.</li> <li>Dr. Madhan Kumar Srinivasan and Mr. Sanjay accepted the content included in the course.</li> </ul>	
<p><b>Course 2: Big Data and Distributed Systems</b></p> <ul style="list-style-type: none"> <li>Dr. Vijayalakshmi M N presented the syllabus.</li> <li>Dr. Madhan Kumar Srinivasan suggested that instead of going for distributed systems, including all the big data technologies in the course is good, which helps the students later on. Students will be aware of the technologies which help them in the company.</li> <li>Mr. Sanjay suggested it would be better if students knew about data ethics, as big data is all about analyzing. Data streaming technologies can be included.</li> </ul>	
<p><b>Course 3: Extended Reality</b></p> <ul style="list-style-type: none"> <li>Mr. Somesh N presented the syllabus.</li> <li>Dr. Madhan Kumar Srinivasan suggested that the content is good, but it would be better to be more application-oriented.</li> <li>Dr. Prasad and Mr. Sanjay opined that this course is a good choice for an elective instead of core.</li> </ul>	



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### 3<sup>rd</sup> BOARD OF STUDIES MEETING

#### Course 5: Machine learning algorithms

- **Dr. Vijayalakshmi M N** presented the syllabus.
- **Dr. Prasad** suggested giving this course in the previous semester since students have completed the statistics course in the fourth semester itself. He suggested it is better to club both Artificial Intelligence and Machine Learning together.
- Other members of BoS accepted the suggestion given by **Dr. Prasad**.

#### Course 6: Advanced Topics in AI

- **Mr. Narasimha Swamy** presented the syllabus.
- **Dr. Madhan Kumar Srinivasan and Dr. Prasad** suggested starting courses in different verticals like NLP, CV, and Deep learning in the program's third year is beneficial to students to do good projects.
- **Dr. Prasad suggested** that Generative AI and Transformers can be included, which helps students to know about the advances in AI.

#### Course 7: Department Electives

- **Respective course faculty** presented the syllabus on Essentials of QC, Nature Inspired Computing, IoT and Computing Paradigms and AI for Engineering Applications.
- Board members felt AI for Engineering applications should be studied by AI & ML students since the content reflects your PSOs.

#### Course 8: AI integrated Software Engineering

- **Mr. Narasimha Swamy** presented the syllabus.
- **Board** has felt this can be taught as a departmental elective.
- **Dr. Prasad** suggested including MLOPs as an EL Component.

#### Course 9: Open Electives

- **Respective course faculty** presented the syllabus on Information Retrieval Systems and Cloud Computing.



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### 3<sup>rd</sup> BOARD OF STUDIES MEETING

- **Dr. Madhan Kumar Srinivasan** suggested that the cloud computing course should be a core course. The concepts related to multi-cloud can be included. Higher-end AI and ML/DL models will be developed over the cloud infrastructure.
- **Other Members** accepted the suggestion.
- **Dr. Prasad** suggested some topics related to Dockers can be included in the Cloud Computing syllabus.

### II - YEAR 2022 SCHEME AND SYLLABUS

#### Course 1: Fundamentals of Data Structures and Data Analysis

- **Dr. Sathish Babu B** presented the syllabus.
- **Dr. Prasad** opined that the course is well designed.
- **Dr. Madhan Kumar Srinivasan and Mr. Sanjay** accepted the content included in the course.

#### Course 2: Foundations of Cyber Physical Systems

- **Mr. Narasimha Swamy** presented the syllabus.
- The course can be continued without any changes.
- **Dr. Prasad** asked is there any follow-up course for the same.

#### Course 3: Operating Systems

- **Mr. Somesh N** presented the syllabus.
- The course can be kept as an NPTEL elective since there is no follow-up course.

#### Course 4: Statistics for Data Science

- **Dr. B. Sathish Babu** presented the syllabus.
- BOS members felt the course is important for AI & ML students.
- **Dr. Prasad** commented course is well framed. He suggested that this course can be moved to previous semester, as this would be the base for the course on AI&ML



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### 3<sup>rd</sup> BOARD OF STUDIES MEETING

#### Course 5: Introduction to AI

- Mr. Narasimha Swamy presented the syllabus.
- BOS members suggested retaining the same syllabus designed for Artificial Intelligence and Machine learning used for V Sem. 2021 Scheme in IV Sem. 2022 Scheme.

The Chairperson thanked all the members for their valuable time and participation in the BoS meeting. He said the changes suggested and inputs given by the honorable members of the BoS will be considered to include in the syllabus.

Dr. Vijayalakshmi M N  
Associate Professor & BoS Coordinator  
Dept. of AIML, RVCE

Dr. B. Sathish Babu  
HoD & Chairman, BoS  
Dept. of AIML, RVCE

**Professor & HoD**  
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## Department of Artificial Intelligence and Machine Learning

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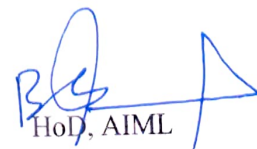
### Action Taken on the 3<sup>rd</sup> BoS Meeting held on 15<sup>th</sup> June 2023

#### III Year 2021 Scheme

Suggestions	Action Taken
For the course Big Data and Distributed system, Dr Madhan Kumar suggested to remove the topics on distributed system and the weightage to be considered for Big Data Technologies	Distributes system is removed and the complete course is framed as Big Data Technologies
For the Course Advanced topics in AI, Dr Madhan kumar suggested having different verticals like NLP, CV, Transformers etc	Considering the suggestion, a course on Natural Language Processing and Transformers is introduced in 5 <sup>th</sup> semester. Course on ANN and Deep Learning is introduced in VI semester
Dr Prasad suggested to integrate the courses AI and Machine Learning	The courses are integrated and taught as a single course

#### II Year 2022 Scheme

For the course Statistics for Data Science, Dr Prasad suggested to move the course to 3 <sup>rd</sup> semester	The course is moved to 3 <sup>rd</sup> semester
BoS members suggested to move course AI and ML to 4 <sup>th</sup> semester as it is in V semester in the 2021 scheme	The suggestion is incorporated
Dr Madhan kumar suggested the the open elective Cloud computing can be incorporated as a core course , dockers can be included is suggested by Dr Prasad	Cloud computing is incorporated as a core course and dockers and related topics are taught as a part of lab skill program

  
HoD, AIML





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## BoS Meeting Dept. of AI & ML, RVCE on 13/04/2024 at 10 AM

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HoD, Department of AI and ML <hod.ai@rvce.edu.in>

Mon, Apr 8, 2024 at 11:41 AM

To: Prasad Sudhakar <prasadsudhakar@gmail.com>, "Prof. Shrisha Rao" <srao@iiitb.ac.in>, "Dr. Madhan Kumar Srinivasan" <madhankrs@gmail.com>

Cc: Dean Academics R V College of Engineering <dean.academics@rvce.edu.in>, "Vijayalakshmi M.N." <vijayalakshmi@rvce.edu.in>

Dear Sir,

Greetings from the Dept. of AI & ML, RVCE.

The Fourth BoS meeting of the Dept. of Artificial Intelligence and Machine Learning has been scheduled for 13/04/2024(Saturday) at 10 AM.

The agenda of the meeting is to discuss the Third-year syllabus of the 2022 Scheme and the Final-year syllabus of the 2021 Scheme of the B.E. program in AI & ML.

Your valuable input and directions are highly appreciated. I request you to kindly make it convenient to attend the meeting.

The TA/DA for the meeting will be paid as per the institution's norms.

Please find attached the tentative scheme and syllabus for your reference.

A line of confirmation will be highly solicited.

Regards,

---

With Best Wishes

Dr. B. SATHISH BABU,  
PROFESSOR & HOD,  
DEPT. OF AIML, RVCE, BENGALURU

Ph: 9844488329, Landline: 080-6818 8278

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### 2 attachments



**2022 scheme-3rd year.pdf**  
1814K



**2021 scheme-4th year.pdf**  
1221K



Department of Artificial Intelligence and Machine Learning

The following members were present for the BoS meeting -04

Sino	Name	Signature
1	Dr. Madhan Kumar Srinivasan	
2	SHRISHA RAO PROFESSOR & DEAN (FACULTY), IIT BANGALORE	
3	PRASAD SUDHAKAR	
4	Dr. Vijayalakshmi. M. N	
5	Dr. S. Anupama Kumar	
6	Prof. Priya. T. V	
7	Prof. Sonika, C. T.	
8	Dr. K. viswavaardhan Reddy	
9	Prof. Rajesh RM	
10	Dr. Prof. Somesh Nandi	

Dr. B. Sathish Babu, 13.04.2024.

Professor and HoD, Dept. of AIML, RVCE



**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

RVCE / AIML / / 2023-24

Wednesday, 15 April 2024

**4<sup>th</sup> BOARD OF STUDIES MINUTES OF MEETING**

**Meeting # 4**

**DATE:** 13-04-2024

**TIME:** 10.00 AM

**MODE:** OFFLINE

**VENUE:** COE Lab, Dept. of AIML, RVCE

**Agenda:**

- 12. Read & Record the minutes of the previous meeting & Action taken report.
- 13. Discussion and Approval of IV Year Scheme and Syllabus - 2021 scheme.
- 14. Discussion and Approval of III Year Scheme and Syllabus - 2022 scheme.
- 15. Any other matter with permission of the chair

The Chairman, BoS, welcomed all the members of the Board of Studies and the attendees. The details of the discussion on each agenda point are presented below.

<b>Subject No.</b>	12
<b>Agenda</b>	Read & Record the minutes of the previous meeting & Action taken report.
<b>Discussions &amp; Resolutions</b>	
<ul style="list-style-type: none"> <li>• The minutes of the previous meeting held on 15/06/2023 were briefed by the BoS chairperson.</li> <li>• The Chairperson also presented the various activities carried out in the department</li> <li>• The members had approved the III-year scheme and syllabus of the 2021 scheme and the year for the 2022 scheme with few suggested changes.</li> </ul>	
<b>Action Plan &amp; Deadlines:</b>	
(For whom the task has been assigned and the expected date of completion of the task/assignment)	
<p>The previous meeting agenda was reviewed by attendees. The members well appreciated the department achievements the trust for extending their support to the faculty and institution.</p> <p>As per the suggestions in the 3<sup>rd</sup> BOS meeting from the members, the appropriate actions were taken for all the suggestions mentioned , necessary change in the respective syllabus, were made and same was brought to the notice of the members.</p> <p>Action taken on the feedback by the stake holders was discussed.</p>	



## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

<b>Subject No.</b>	13
<b>Agenda</b>	Discussion and Approval of IV Year Scheme and Syllabus - 2021 scheme
<b><i>Discussions &amp; Resolutions</i></b>	
<b>Course – 1 : Stream Processing and Analytics</b>	
<ul style="list-style-type: none"><li>• <b>Dr. Anupama Kumar</b> presented the syllabus</li><li>• <b>Dr. Shrisha Rao</b> suggested to include Google Stream Processing tools</li><li>• <b>Dr. Prasad</b> suggested looking at the open-source tools which can be considered in the syllabus.</li><li>• <b>Dr. Madhan Kumar Srinivasan</b> accepted the content included in the course.</li></ul>	
<b>Course – 2 : Artificial Intelligence in Autonomous Vehicles</b>	
<ul style="list-style-type: none"><li>• <b>Prof. Rajesh</b> presented the syllabus</li><li>• <b>Dr. Shrisha Rao</b> recommended looking into the different levels of autonomy in the vehicles and considering the challenges at each level. He also suggested to include the practical aspects of the course</li><li>• Reinforcement learning can be removed</li><li>• Ethics and legal frameworks concerning autonomous vehicles should be looked upon</li><li>• Better if it is connected to practical aspects.</li><li>• <b>Dr. Prasad</b> and <b>Dr. Madhan Kumar Srinivasan</b> accepted the content included in the course.</li></ul>	
<b>Course – 3 : Hardware Architectures for Artificial Intelligence</b>	
<ul style="list-style-type: none"><li>• <b>Dr. Vijayalakshmi</b> presented the syllabus</li><li>• <b>Dr. Shrisha Rao</b> recommended including lab component. He suggested including a Pynq board where experiments can be carried out and also suggested an interdisciplinary teaching approach for the subject.</li><li>• Some projects related to the content of the course can be given</li></ul>	
<b>Course – 5 : Fuzzy Logic in Artificial Intelligence</b>	
<ul style="list-style-type: none"><li>• <b>Dr. Vijayalakshmi</b> presented the syllabus</li><li>• Board members felt that the course content is fine</li></ul>	
<b>Course – 6 : Ethical Artificial Intelligence</b>	
<ul style="list-style-type: none"><li>• <b>Prof. Priya</b> presented the syllabus</li><li>• <b>Dr. Shrisha Rao</b> suggested to swap unit-1 and unit-2 and the number of hours can be reduced</li><li>• Bias issues should be included in the content</li><li>• Practical Aspects and some fixed problems can be considered</li><li>• AI challenges dealt with can also be included in the course content</li><li>• <b>Dr. Madhan Kumar Srinivasan</b> suggested including the European AI Law in the course content as a reference</li></ul>	
<b>Course – 7 : Generative Artificial Intelligence</b>	
<ul style="list-style-type: none"><li>• <b>Prof. Somesh</b> Presented the Syllabus</li><li>• <b>Dr. Prasad</b> suggested including the first principles of generative AI in the course</li><li>• Practical aspects of the course should be looked into</li><li>• Ethics-related units can be included in the course</li></ul>	



## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

- Laws of Ethics can be included

### Course – 8 : Artificial Intelligence for Product Management

- **Dr.Vijayalakshmi** presented the syllabus
- **Dr. Madhan Kumar** Srinivasan appreciated the content and said that the course is need of the hour
- **Dr.Prasad** suggested changing the nomenclature of the course to Artificial Intelligence Product Management
- He also suggested to include the data collection aspects into the course as it is vital to collect the correct data
- **Dr. Shrisha Rao** accepted the suggestion given by the other members

### Action Plan & Deadlines:

(For whom the task has been assigned and expected date of completion of the task/assignment)

The coordinators of the above courses to which suggestions have been recorded from subject experts is intimated to take necessary action and work towards incorporating the said suggestions

<b>Subject No.</b>	14
<b>Agenda</b>	Discussion and Approval of III Year Scheme and Syllabus - 2022 scheme

### Discussions & Resolutions

#### Course -1 : Artificial Neural Networks and Deep Learning

- **Dr.B.Sathish Babu** presented the syllabus
- **Dr.Prasad** proposed to merge unit-1 and unit-2 in the course to single unit
- He also suggested to consider the different aspects of Reinforcement Learning will be dealt in the course as it has modern variants
- **Members** recommend to include a unit of self-supervised learning and semi supervised learning
- **Dr. Shrisha Rao** suggested to include fundamentals of Neuro symbolic AI in the content (if feasible)
- **Dr. Madhan Kumar Srinivasan** accepted the suggestions given

#### Course -2 : Cloud Computing Technology & Architectures

- **Prof. Rajesh** presented the syllabus
- **Dr. Madhan Kumar Srinivasan** suggested to include the cloud security in the course
- He also told to look into the practical aspects of the course

#### Course -3 : Machine Learning Operations

- **Dr.Anupama Kumar** presented the syllabus
- **Dr.Prasad** suggested to include the different regulations in the content
- **Dr.Madhan Kumar** recommended and suggested GDPR and privacy act can be included
- **Dr. Shrisha Rao** suggested to include the Governance of AI and functionalities of the different models to the content

#### Course -4 : Mathematical Algorithms for Artificial Intelligence

- **Dr.B.Sathish Babu** presented the syllabus



## DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

- **Dr. Prasad** appreciated the content of the course
- All other members accepted the content

### Course – 5 : Advanced Computer Networks

- **Dr. Shrisha Rao** suggested to check whether this course is relevant to AIML.
- He also suggested this course should be handled/taught by CSE or ECE faculty
- He also recommended to assess the strength of the faculty to teach the course
- In case, if this course is excluded, AI Security Course can be considered

### Course – 5 : Department Electives

- **Respective course faculty** presented the syllabus on AI Software Engineering, Advanced Topics in AI, Nature Inspired Engineering
- **Dr. Shrisha Rao** suggested to include some units related to Bio Science, Life Sciences contents to the course Nature Inspired Engineering
- He also suggested to include some contents related to Fintech and Medicine as domain study courses
- Focus of this course on the application domain

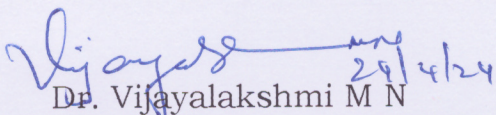
### Action Plan & Deadlines:

(For whom the task has been assigned and expected date of completion of the task/assignment)

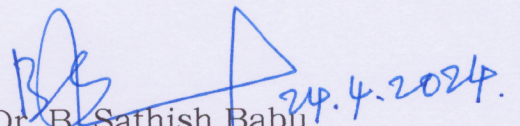
The coordinators of the above courses to which suggestions have been recorded from subject experts is intimated to take necessary action and work towards incorporating the said suggestions

<b>Subject No.</b>	15
<b>Agenda</b>	Any other matter with permission of the chair
<b>Discussions &amp; Resolutions</b>	
The BoS chairperson thanked the board members and attendees for attending the meeting and making the meeting interactive by providing constructive inputs to shape the curriculum	

The Chairperson thanked all the members for their valuable time and participation in the BoS meeting. He said the changes suggested and inputs given by the honourable members of the BoS will be considered to include in the syllabus.

  
29/4/24

Dr. Vijayalakshmi M N  
Associate Professor & BoS Coordinator  
Dept. of AIML, RVCE

  
24.4.2024  
Dr. B. Sathish Babu  
HoD & Chairman, BoS  
Dept. of AIML, RVCE  
**Professor & HoD**  
Dept. of Artificial Intelligence  
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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

RVCE / AIML / 015 / 2023-24

Friday, 24 April 2024

**4<sup>th</sup> BOARD OF STUDIES MEETING  
ACTION TAKEN REPORT**

**Meeting # 4**

**DATE OF MEETING:** 13-04-2024

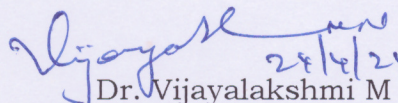
**TIME:** 10.00 AM

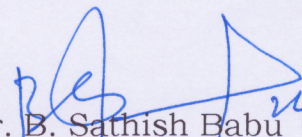
**VENUE:** COE Lab, Dept. of AIML, RVCE

**MODE:** OFFLINE

**DATE OF RELEASE OF ACTION PLAN:** 24/04/2024

Sl. No.	Agenda	Action Taken
12	Read & Record the minutes of the previous meeting & Action taken report.	Read and Recorded.
13	Discussion and Approval of IV Year Scheme and Syllabus - 2021 scheme.	Suggestions incorporated. Information conveyed to the respective faculty coordinator to take necessary action and work towards incorporating the suggestions.
14	Discussion and Approval of III Year Scheme and Syllabus - 2022 scheme.	Suggestions incorporated. Information shared with respective faculty coordinator for further steps to work towards incorporating the said suggestions.
15	Any other issue with the permission of the Chair.	The meeting concluded with the BoS Chairman thanking the members

  
24/4/24  
Dr. Vijayalakshmi M N  
(BoS Coordinator, Dept. of AIML)

  
24.4.2024  
Dr. B. Sathish Babu  
BoS Chairman, Dept. of AIML

**Professor & HoD**  
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