



Madhav Institute of Technology & Science Gwalior (M.P.)

(A Govt. Aided UGC Autonomous Institute Affiliated to RGPV, Bhopal)

NAAC Accredited with A++ Grade

Centre for Artificial Intelligence

BOARD OF STUDIES (BoS) PROCEEDING
in
CENTRE FOR ARTIFICIAL INTELLIGENCE
(Meeting Dated - 02 Dec., 2023)



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Summary of Board of Studies (BoS)

Courses where revision was carried out

(Course/subject name)	Course Code	Year/Date of introduction	Year/Date of revision	Percentage of content added or replaced	Agenda Item No.	Page No.
Object Oriented Programming	3240223/ 3270223/ 3280223	Nov. 2020	Dec. 2023	10%	15	8

Courses focusing on employability/entrepreneurship/ skill development

(Course/subject name)	Course Code	Activities/contents which have a bearing on increasing skill and employability	Agenda Item No.	Page No.
AI For Robotics	240605	Robotics Engineering, Algorithms used in Robotics, Path Planning, Search Approaches, Heuristic Approaches, Simultaneous Localization and Mapping, Swarm Robotics and Multi-Robot Systems, Bio-inspired Robotics, Integration of AI and Robotics in Industry 4.0	6	6
Image Processing	240606/ 270602/ 280602	Digital Image processing systems, Image Sampling and quantization, Image Enhancement, Image Segmentation, Spatial techniques and Frequency domain techniques, Image Restoration and Compression, Pseudo color Image Processing	6	6
Artificial Intelligence & Machine Learning	240607	Introduction to Artificial Intelligence, Searching Techniques, Supervised, Unsupervised Machine Learning Techniques.	5	6
Deep Learning	270603/ 280603	Neural Networks, Convolutional Neural Networks, Sequence Modelling, Autoencoders	6	6
Calculus and Optimization Techniques	2240421/ 2270421/ 2280421	Integrals, Optimization Mechanisms, Numerical Methods for Problem Solving.	12	8
Modern Computer Architecture	2240422/ 2270422/ 2280422/ 3240222/ 3270222/ 3280222	Single and multi core Computer Architectures, Distributed Computing, High Performance Computing, CUDA.	12	8
Control Systems	2240423	System Modelling, Time-Response analysis, Stability and State-variable Analysis.	12	8
Robot Kinematics	2240424	Forward Kinematic Modeling, Path Planning and Applications, Manipulator Differential Motion, Dynamics and Control.	12	8

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Information Security	2240425/ 2270425/ 2280425	Cryptography, Ciphers, Hashing, Network Attacks.	12	8
Java Programming Lab	2240426/ 2270426/ 2280426	Classes, Exception Handling, Multi-threading, JDBC, Sockets.	12	8
Software Engineering	2270422	Requirement Engineering, Software Design, Software Testing and Management.	12	8
Cloud Computing And Virtualization	2270424/ 2280424		12	8
Discrete Structures	3240221/ 3270221/ 3280221	Sets, Logic, Graphs, Generating functions.	15	8
Object Oriented Programming	3240223/ 3270223/ 3280223	Classes, Objects, Polymorphism, Abstraction, Inheritance, Templates.	15	8
Data Structures	3240224/ 3270224/ 3280224	Stack, Queue, Linked List, Sorting Searching, Trees and Graphs.	15	8
Electronic Devices And Circuits	3240225	Semiconductor Components, Differential Amplifier, Integrated Circuits, Controllers.	15	8

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New Courses added					
(Course/subject name)	Course Code	Activities/contents which have a bearing on increasing skill and employability	Agenda No.	Item	Page No.
Image Processing	240606/ 270602/ 280602	Digital Image processing systems, Image Sampling and quantization, Image Enhancement, Image Segmentation, Spatial techniques and Frequency domain techniques, Image Restoration and Compression, Pseudo color Image Processing	6		6
Deep Learning	270603/ 280603	Neural Networks, Convolutional Neural Networks, Sequence Modelling, Autoencoders	6		6
Calculus And Optimization	2240421/ 2270421/ 2280421	Integrals, Optimization Mechanisms, Numerical Methods for Problem Solving	12		8
Modern Computer Architecture	2240422/ 2270422/ 2280422/ 3240222/ 3270222/ 3280222	Single and multi core Computer Architectures, Distributed Computing, High Performance Computing, CUDA.	12		8
Control Systems	2240423	System Modelling, Time-Response analysis, Stability and State-variable Analysis.	12		8
Robot Kinematics	2240424	Forward Kinematic Modeling, Path Planning and Applications, Manipulator Differential Motion, Dynamics and Control.	12		8
Information Security	2240425/ 2270425/ 2280425	Cryptography, Ciphers, Hashing, Network Attacks.	12		8
Java Programming Lab	2240426/ 2270426/ 2280426	Classes, Exception Handling, Multi-threading, JDBC, Sockets.	12		8
Electronic Devices And Circuits	3240225	Semiconductor Components, Differential Amplifier, Integrated Circuits, Controllers.	15		8

Feedback on curriculum received from stakeholders: Analysis & ATR				
Stakeholder	Student	Faculty	Alumni	Employer
No. of responses	1049	21	-	-
Link of Analysis	https://drive.google.com/file/d/191o7lZXWE0peB1b14A61hw1F08_15MZ/view?usp=sharing	https://drive.google.com/file/d/1131vq2UxVARNkoMVd2TvjvQAm3zJfnr/view?usp=sharing	-	-
ATR Link	https://drive.google.com/file/d/1UW4_1v_oed5PjkeYRKWQoa9BzznMfMAo/view?usp=sharing	https://drive.google.com/file/d/1131vq2UxVARNkoMVd2TvjvQAm3zJfnr/view?usp=sharing	-	-
Link showing Excel sheet of Google Form details of stakeholders	https://drive.google.com/drive/folders/1w9bGulvznXxzA7y-l16H3Vqose4HpGof4noz5_EB1-eR4y15_BkyNZL3txapl1Jf1w40Ga85?usp=sharing	https://drive.google.com/drive/folders/1u-Qvp_hmm2m87G0lHISKUnY3-56B1-dV?usp=sharing	-	-



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Date: 13.12.2023

Minutes of Meeting of Board of Studies (BoS) in Centre for Artificial Intelligence

The meeting of the Board of Studies (BoS) in the Centre for Artificial Intelligence was held on 02 Dec., 2023 at 11:00 AM in offline/online mode (though video conferencing). During the meeting following were present:

1.	Dr. R. R. Singh	Chairman
2.	Dr. Jitendra Agrawal <i>Director and Associate Professor, School of Information Technology, RGPV Bhopal.</i>	External Member (Academics) <i>(Nominee of Hon'ble Vice Chancellor RGPV Bhopal)</i>
3.	Mr. Giridhari Lal Gupta <i>Associate at Goldman Sachs, Gwalior.</i>	External Member (Alumnus)
4.	Mr. Aditya Marathe <i>Founder and CEO, Nugenix Robotics, Ichalkaranji, Maharashtra.</i>	External Member (Corporate Sector)
5.	Dr. Tej Singh	Member
6.	Dr. Pawan Dubey	Member
7.	Dr. Bhagat S. Raghuwanshi	Member
8.	Dr. Kritika Bansal	Member
9.	Ms. Shubha Mishra	Member
10.	Dr. Sunil Kumar Shukla	Member
11.	Dr. Vibha Tiwari	Member
12.	Mr. Mir Shahnawaz Ahmad	Member

The following external members could not attend the meeting:

1.	Dr. Dilip Singh Sisodia <i>Associate Professor and HoD, Department of Computer Science, NIT Raipur</i>	External Member (Academics)
2.	Dr. R. K. Pateriya <i>Professor, Department of CSE, MANIT Bhopal</i>	External Member (Academics)



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The following deliberation took place in the meeting:

Item 1	<p>To confirm the minutes of the previous BoS meeting held in the month of May-June 2023.</p> <p>The minutes of the previous BoS meeting held on 02-June, 2023 were presented, discussed and confirmed.</p>				
Item 2	<p>The examination committees constituted vide Dean Academics Notice no 1332 dated 20/4/2021 need to be reconstituted this year.</p> <p>The examination committee has be reconstructed and includes the following members:</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;"> <p style="margin: 0;">Dr. R. R. Singh Dr. Vibha Tiwari Ms. Shubha Mishra Mr. Mir Shahnawaz Ahmad Director Nominee</p> </td> </tr> </table> <p>The same was also confirmed by all the BoS members.</p>	<p style="margin: 0;">Dr. R. R. Singh Dr. Vibha Tiwari Ms. Shubha Mishra Mr. Mir Shahnawaz Ahmad Director Nominee</p>			
<p style="margin: 0;">Dr. R. R. Singh Dr. Vibha Tiwari Ms. Shubha Mishra Mr. Mir Shahnawaz Ahmad Director Nominee</p>					
Item 3	<p>To propose the scheme structure of VIII Semester with the provision of ONE DE & ONE OC course to be offered in online mode with credit transfer for the batch admitted in academic year 2020-21. (The total credits from I-VIII semester should not be less than 160 for this batch).</p> <p>The scheme structure of B. Tech. VIII Semester [Information Technology (Artificial Intelligence and Robotics)], batch admitted in academic session 2020 – 21 (under the flexible curriculum) , was discussed and recommended. Also, it was confirmed that the total credits from I-VIII semester are equal to 160 for this batch. The scheme is annexed as Annexure-I.</p>				
Item 4	<p>To propose the list of courses which the students can opt from SWAYAM/NPTEL/ other MOOC Platforms/ Institution (MITS) MOOC, to be offered in online mode under Departmental Elective (DE) category courses (DE-5) and open category (OC3) for credit transfer in the VIII Semester under the flexible curriculum (Batch admitted in academic year 2020-21).</p> <p>The list of Departmental Elective (DE-5 & OC-3) courses to be offered from SWAYAM/NPTEL/MOOC based learning platform (in online mode) for B. Tech VIII Semester [Information Technology (Artificial Intelligence and Robotics)], batch admitted in academic year 2020-21, were discussed and finalized, as per the following details:</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; width: 80%;"> <thead> <tr> <th style="width: 50%; text-align: center;">DE-5</th> <th style="width: 50%; text-align: center;">OC-3</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> Reinforcement Learning Blockchain and its Applications Natural Language Processing Embedded System Design with ARM </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> Data Analytics with Python Deep Learning - IIT Ropar Natural Language Processing Foundation of Cloud IoT Edge ML </td> </tr> </tbody> </table>	DE-5	OC-3	<ul style="list-style-type: none"> Reinforcement Learning Blockchain and its Applications Natural Language Processing Embedded System Design with ARM 	<ul style="list-style-type: none"> Data Analytics with Python Deep Learning - IIT Ropar Natural Language Processing Foundation of Cloud IoT Edge ML
DE-5	OC-3				
<ul style="list-style-type: none"> Reinforcement Learning Blockchain and its Applications Natural Language Processing Embedded System Design with ARM 	<ul style="list-style-type: none"> Data Analytics with Python Deep Learning - IIT Ropar Natural Language Processing Foundation of Cloud IoT Edge ML 				
Item 5	<p>To propose the list of "Additional Courses" which can be opted for getting an</p> <p>(i) Honours (for students of the host department)</p> <p>(ii) Minor Specialization (for students of other departments)</p>				



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[These will be offered through SWAYAM/NPTEL/MOOC based Platforms for the B.Tech. VIII semester students (for the batch admitted in 2020-21)] and for B.Tech. VI semester (for the batch admitted in 2021-22)]

The courses available on SWAYAM/NPTEL/MOOC based learning platforms for Honours Specialization for the B.Tech. VIII semester students [Information Technology (Artificial Intelligence and Robotics) (for the batch admitted in 2020-21)] were discussed and identified. Following track-wise list of honours courses were selected:

Foundations of Cyber Physical Systems
Computer Vision and Image Processing-Fundamentals and Applications
Edge Computing
The Joy of Computing using Python
Artificial Intelligence: Knowledge Representation And Reasoning
GPU Architectures And Programming
Advanced Computer Architecture

Also, the courses available on SWAYAM/NPTEL/MOOC based learning platforms for Honours Specialization for the B.Tech. VI semester students [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning], for the batch admitted in 2021-22, were discussed and identified. Following track-wise list of honours courses were selected:

Track 1: Information Security	Track 2: Internet of Things
Secure Computation: Part I	Sensors and actuators
Information Security- 5 - Secure Systems Engineering	Microprocessors and Microcontrollers
	Introduction to Internet of Things
Track 3: High Performance Computing	
Parallel Computer Architecture	
GPU Architectures and Programming	

	To review and finalize the scheme structure of B.Tech VI Semester under the flexible curriculum (Batch admitted in 2021-22)
Item 6	The scheme structure of B. Tech. VI Semester [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning], batch admitted in academic session 2021 – 22 (under the flexible curriculum) , was discussed and recommended. The scheme is annexed as Annexure-II.
Item 7	To review & finalize the syllabi for all Departmental Core Courses (DC) and Mandatory Course (MC) of B. Tech VI Semester (for batch admitted in 2021-22) under the flexible curriculum along with their COs. The syllabi (along with course outcomes) of B. Tech. VI Semester [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and



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	Machine Learning], batch admitted in academic session 2021 – 22 (under the flexible curriculum) , were discussed and recommended. The scheme is annexed as Annexure-III.								
Item 8	<p>To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (for batches admitted in 2021-22) in online mode under Departmental Elective (DE-1) Course with credit transfer, in the VI Semester.</p> <p>The list of Departmental Elective (DE-1) courses to be offered from SWAYAM/NPTEL/MOOC based learning platform (in online mode) for B. Tech VI Semester [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning] were discussed and finalized, as per the following details:</p> <table border="1"> <thead> <tr> <th>DE-1 (Information Technology (Artificial Intelligence and Robotics))</th> <th>DE-1 (Artificial Intelligence (AI) and Data Science)</th> <th>DE-1 (Artificial Intelligence (AI) and Machine Learning)</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> • Embedded System Design with ARM • Robotics: Basics and Selected Advanced Concepts • Blockchain and its Applications • Compiler Design </td> <td> <ul style="list-style-type: none"> • Data Science for Engineers • Business Intelligence & Analytics • Blockchain and its Applications • Compiler Design </td> <td> <ul style="list-style-type: none"> • Data Analytics with Python • Artificial Intelligence: Knowledge Representation and Reasoning • Blockchain and its Applications • Compiler Design • Foundation of Cloud IoT Edge ML </td> </tr> </tbody> </table>			DE-1 (Information Technology (Artificial Intelligence and Robotics))	DE-1 (Artificial Intelligence (AI) and Data Science)	DE-1 (Artificial Intelligence (AI) and Machine Learning)	<ul style="list-style-type: none"> • Embedded System Design with ARM • Robotics: Basics and Selected Advanced Concepts • Blockchain and its Applications • Compiler Design 	<ul style="list-style-type: none"> • Data Science for Engineers • Business Intelligence & Analytics • Blockchain and its Applications • Compiler Design 	<ul style="list-style-type: none"> • Data Analytics with Python • Artificial Intelligence: Knowledge Representation and Reasoning • Blockchain and its Applications • Compiler Design • Foundation of Cloud IoT Edge ML
DE-1 (Information Technology (Artificial Intelligence and Robotics))	DE-1 (Artificial Intelligence (AI) and Data Science)	DE-1 (Artificial Intelligence (AI) and Machine Learning)							
<ul style="list-style-type: none"> • Embedded System Design with ARM • Robotics: Basics and Selected Advanced Concepts • Blockchain and its Applications • Compiler Design 	<ul style="list-style-type: none"> • Data Science for Engineers • Business Intelligence & Analytics • Blockchain and its Applications • Compiler Design 	<ul style="list-style-type: none"> • Data Analytics with Python • Artificial Intelligence: Knowledge Representation and Reasoning • Blockchain and its Applications • Compiler Design • Foundation of Cloud IoT Edge ML 							
Item 9	<p>To review and finalize the courses & syllabi to be offered (for batch admitted in 2021-22) under the Open Category (OC) Courses (in traditional mode) for VI semester students of other departments along with their COs.</p> <p>The syllabi (along with course outcomes) of Open Category (OC) Courses (in traditional mode) for VI semester students of other departments, batch admitted in academic session 2021 – 22 (under the flexible curriculum) , were discussed and finalized. The scheme is annexed as Annexure-IV.</p>								
Item 10	<p>To review and finalize the Experiment list/ Lab manual for all the Laboratory Courses to be offered in B.Tech.VI semester (for batch admitted in 2021-22).</p> <p>The Experiment list/ Lab manual for all the Laboratory Courses of B. Tech. VI Semester [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning], batch admitted in academic session 2021 – 22 (under the flexible curriculum) , were discussed and finalized. The scheme is annexed as Annexure-V.</p>								
Item 11	<p>To review and finalize the suggestive list of projects which can be offered under the 'Skill based mini-project' category in various laboratory components based courses to be offered in B.Tech. VI Semester (for the batch admitted in 2021-22).</p>								



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	<p>The suggestive list of projects which can be offered under the 'Skill based mini-project' category in various laboratory components based courses of B. Tech. VI Semester [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning], batch admitted in academic session 2021 – 22 (under the flexible curriculum) , were discussed and finalized. The scheme is annexed as Annexure-V.</p>
Item 12	<p>To review and finalize the scheme and syllabi of B. Tech. IV Semester (for batch admitted in 2022-23) under the flexible curriculum along with their COs.</p> <p>The scheme and syllabi (along with course outcomes) of B. Tech. IV Semester [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning], batch admitted in academic session 2022 – 23 (under the flexible curriculum), were reviewed and finalized. The scheme and syllabi are annexed as Annexure-VI.</p>
Item 13	<p>To review and finalize the Experiment list/ Lab manual for all the Laboratory Courses to be offered in Batch IV semester (for batch admitted in 2022-23)</p> <p>The Experiment list/ Lab manual for all the Laboratory Courses of B. Tech. IV Semester [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning], batch admitted in academic session 2022 – 23 (under the flexible curriculum) , were discussed and finalized. The scheme is annexed as Annexure-VII.</p>
Item 14	<p>To review and finalize the suggestive list of projects which can be offered under the 'Skill based mini-project' category in various laboratory components based courses to be offered in B. Tech IV Semester (for the batch admitted in 2022-23).</p> <p>The suggestive list of projects which can be offered under the 'Skill based mini-project' category in various laboratory components based courses of B. Tech. IV Semester [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning], batch admitted in academic session 2022 – 23 (under the flexible curriculum) , were discussed and finalized. The scheme is annexed as Annexure-VII.</p>
Item 15	<p>To review and finalize the scheme and syllabi of B. Tech. II Semester (for batch admitted in 2023-24) under the flexible curriculum along with their COs.</p> <p>The scheme and syllabi (along with course outcomes) of B. Tech. II Semester [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning], batch admitted in academic session 2023 – 24 (under the flexible curriculum), were reviewed and finalized. The scheme and syllabi are annexed as Annexure-VIII.</p>
Item 16	<p>To review and finalize the Experiment list/ Lab manual for all the Laboratory Courses to be offered in Batch II semester (for batch admitted in 2023-24)</p> <p>The Experiment list/ Lab manual for all the Laboratory Courses of B. Tech. II Semester [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/</p>



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	Artificial Intelligence (AI) and Machine Learning], batch admitted in academic session 2023 – 24 (under the flexible curriculum), were discussed and finalized. The scheme is annexed as Annexure-IX.
Item 17	To review and finalize the suggestive list of projects which can be offered under the 'Skill based mini-project' category in various laboratory components based courses to be offered in B. Tech IV Semester (for the batch admitted in 2023-24). The suggestive list of projects which can be offered under the 'Skill based mini-project' category in various laboratory components based courses of B. Tech. II Semester [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning], batch admitted in academic session 2023 – 24 (under the flexible curriculum), were discussed and finalized. The scheme is annexed as Annexure-IX.
Item 18	To review the CO attainments, identify gaps and suggest corrective measures for the improvement in the CO attainment levels for the courses taught in Jan-June 2023 Session. The CO attainment levels of various courses were reviewed, along with the Gap identification and necessary action taken for not attained CO levels. The same is annexed as Annexure-X.
Item 19	To review the PO attainment, CO-PO mapping matrix and action to be taken to improve PO attainment level. Note: Currently, the senior batches of Information Technology (Artificial Intelligence and Robotics), Artificial Intelligence (AI) and Data Science and Artificial Intelligence (AI) and Machine Learning are in VII, V and V semesters respectively, and no batch has yet completed the degrees in these programs. So, the PO attainment will not be prepared in this semester.
Item 20	To review curricula feedback from various stakeholders, its analysis and impact. The curricula feedback from various stakeholders for B. Tech. II/IV/VI Semesters [Information Technology (Artificial Intelligence and Robotics)/ Artificial Intelligence (AI) and Data Science/ Artificial Intelligence (AI) and Machine Learning] during Jan-June 2023, were reviewed and discussed. The same is annexed in Annexure-XI
Item 21	To discuss and recommend the scheme structure & syllabi of PG Programme (M.E./M.Tech./MCA/MBA) along with their Course Outcomes (COs) Note: Currently, the Centre for Artificial Intelligence is not offering any PG Programme.
Item 22	To recommend the scheme structure and Syllabus of Ph.D. Course Work (specific to Doctoral Research Scholars, if any) Note: Currently, the Centre for Artificial Intelligence is not offering any Ph.D. Programme.
Item 23	Any other matter. The Syllabus, List of Experiments and Skill based mini Projects for Problem Solving and Programming (3240122/ 3270122/ 3280122) as a rectification to Computer Programming in the First



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Semester (batch admitted in academic session 2023 – 24) was discussed and finalized. The syllabus (along with List of Experiments and skill based mini projects) is annexed as Annexure-XII.

Suggestions by the external experts/members:

The external experts suggested that Robot Economics and Robot Esthetics and Design be included in the curriculum of the Artificial Intelligence and Robotics branch. It was also discussed in the meeting that seminars and skill based mini projects can suffice for this requirement.

The meeting ended with the vote of thanks to all the members.

Dr. Tej Singh

Dr. Pawan Dubey

Dr. Bhagat S. Raghuwanshi

Dr. Vibha Tiwari

Dr. Kritika Bansal

Ms. Shubha Mishra

Dr. Sunil Kumar Shukla

Mr. Mir Shahnawaz Ahmad

*Attended in
Online mode*

Dr. Jitendra Agrawal

Director and Associate Professor,
School of Information Technology,
RGPV Bhopal.

Dr. Dilip Singh Sisodia

Associate Professor and HoD,
Department of Computer Science,
NIT Raipur

Dr. R. K. Pateriya

Professor,
Department of CSE,
MANIT Bhopal

*Attended in
Online Mode*

Mr. Giridhari Lal Gupta

Associate at Goldman Sachs,
Gwalior.

*Attended in
Online Mode.*

Mr. Aditya Marathe

Founder and CEO,
Nugenix Robotics,
Ichalkaranji, Maharashtra.

Dr. Rajni Ranjan Singh

Coordinator, Center for Artificial
Intelligence [Chairman, BoS]