



Sant Dnyaneshwar Shikshan Sanstha's
Annasaheb Dange College of Engineering and Technology,
Ashta, Dist: Sangli
(An Empowered Autonomous Institute affiliated to Shivaji University, Kolhapur)



Department of Robotics and Artificial Intelligence
List of Board of Studies Members (as per UGC Regulations)

Sr. No.	Name of Expert	Designation	Institute/University/Organization
1.	Dr. Sunita. S. Shinde	Chairman (HoD)	ADCET, Ashta
2.	Dr. Amrita. A. Aghashe	Expert VC-Nominee	WCE, Sangli
3.	Dr. Shashidhar. G. Koolgudi	Academic Expert-1	NIT, Surat
4.	Dr. L. Nirmaladevi	Academic Expert-2	Osmania University, Hyderabad
5.	Dr. Jagat Jyoti Rath	Academic Expert-3	MNNIT, Allahabad
6.	Dr. Smriti H. Bhandari	Sr. Data Scientist & Head, Data Science	Autharva Inc., USA
7.	Mr. Yogesh Inamdar	Vice President	Bharat Forge, Pune
8.	Mr. Vinod Gokhale	Founder, CEO	VS Instruments, Sangli
9.	Mr. Vishwajeet Khade - Alumni	Alumni Representative	RnT Robotics Pvt. Ltd., Kolhapur
10.	Mr. Yogesh V. Koli	Member (Secretary)	ADCET, Ashta
11.	All Faculty members of the department	Member	ADCET, Ashta


Chairman, Board of Studies
Robotics & Artificial Intelligence


Chairman, Academic Council
ADCET, Ashta





Date- 11-04-2026

Board of Studies

(Meeting No. - 1)

Agenda:

1. Welcome new board of studies members.
2. Briefing about ADCET.
3. Briefing Robotics and Artificial Intelligence department.
4. To discuss status of First Year B. Tech Structure.
5. To discuss and approve Second Year to Final Year B. Tech Structure - Revision 0.
6. To discuss and approve the curriculum contents of Second Year B. Tech Revision 0.
7. Any other item with the permission of the chair.

Dr. S. S. Shinde.
BoS- Chairman- RAI,
ADCET, Ashta

Dr. L. Y. Waghmode.
Director
ADCET, Ashta





MINUTES OF THE MEETING BOARD OF STUDIES

Date: 11th April 2026, AT 10:30 AM (Hybrid Mode)

Meeting Room, Department of Computer Science and Engineering

The 1st meeting of Board of Studies (BoS) of Department of Robotics and Artificial Intelligence Engineering, ADCET, Ashta was held on 11th April, at 10:30 AM in Hybrid mode.

Dr. S. S. Shinde, HOD RAI chaired the Meeting.

Following is the list of BoS Members:

Sr. No.	Name of Expert	Designation
1.	Dr. Sunita. S. Shinde	Chairman (HOD)
2.	Dr. Amrita. A. Aghashe	Expert, VC-Nominee
3.	Dr. Shashidhar. G. Koolagudi	Academic Expert-1
4.	Dr. L. Nirmaladevi	Academic Expert-2
5.	Dr. Jagat Jyoti Rath	Academic Expert-3
6.	Dr. Smriti H. Bhandari	Sr. Data Scientist & Head, Data Science
7.	Mr. Yogesh Inamdar	Vice President
8.	Mr. Vinod Gokhale	Founder, CEO
9.	Mr. Vishwajeet Khade	Alumni Representative
10.	Dr. S. S. Sayyad	HOD, Computer science and Engineering
11.	Dr. S. D. Pawar	HOD, Electrical Engineering
12.	Dr. K. J. Burle	Associate Professor, Mechanical Engineering
13.	Mrs. S. S. Mohite	Assistant Professor, Basic Science
14.	Mr. Yogesh V. Koli	Member - Secretary
15.	All Faculty members of the department	Members



- ❖ Four members joined in virtual mode and few members physically present for the meeting.
- ❖ The Chairman extended a warm welcome to all the members in the meeting.
- ❖ Mr. Y. V. Koli presented vote of thanks to end up the meeting.

Agenda of the meeting and resolutions are as follows:

➤ **Agenda Item No.1: Welcome new board of studies members.**

Mrs. Shital D. Kolekar introduced new BoS members and HOD Dr. S. S. Shinde felicitated Dr. Agashe Madam, Dr. Shashidhar Koolagudi and Mr. Vinod Gokhale, Mr. Inamdar who were present physically for the meeting. Welcome of all online members was also done.

➤ **Agenda Item No.2: Briefing about ADCET.**

Dr. S. S. Shinde, HOD given brief information about ADCET, Ashta

➤ **Agenda Item No.3: Briefing about RAI Department.**

Dr. S. S. Shinde, HOD given brief information about RAI Department.

➤ **Agenda Item No.4: To discuss status of First Year B. Tech Structure and Contents.**

Dr. S. S. Shinde presented the structure of Revision 0 for First Year B. Tech Robotics and Artificial Intelligence Engineering Program.

➤ **Agenda Item No.5: To discuss and approve Second Year to Final Year B.Tech Structure - Revision 0**

Dr. S. S. Shinde presented the structure of Revision 0 from Second Year to Final Year B. Tech Robotics and Artificial Intelligence Engineering Program. She also presented



the options those are available for students related to Honors and Minor along with their credits. She discussed the year wise credit distribution. She presented track based Professional Electives, Honor Program and Minor track courses.

Dr. A. A. Agashe initiated discussion on the first bucket of courses which was of Minor tracks. She suggested that Basic or Foundational courses should be retained for the Minor program. She also suggested to offer Image processing before Machine Learning. She also suggested that total credits between 165 to 168 are acceptable.

Dr. Koolagudi Sir continued with discussion and he suggested Open Electives should be interdisciplinary: like One course from Basic Sciences, One from Electrical Engineering, One from Civil Engineering, etc. Sir also suggested that the Degree Certificate of SUK should mention Honors in Robotics and AI (RAI) or Specialization in Robotics and AI (RAI) and B.Tech. Honors in Robotics and AI (RAI) should be clearly mentioned on the degree certificate.

Mr. Yogesh Inamdar Sir Suggested to include Advanced Applied Mechanics for Robotic Design with application-oriented basics of Hydraulics and Pneumatics before introducing Sensors. He also suggested to Sensors and its I/O linkage should be included. Mr. Vinod Gokhale Sir suggested to include the following topics- Signal Conditioning, Aerial Robotics, Types of Robots, Sensor Fusion, Autonomous Navigation.

Following are the suggestions while discussing Structure:

Semester -III

Every lecture should end with short survey/feedback to assess content delivery and student understanding.

Semester -IV

The long form of UHV (Universal Human Values) should be included in the 4th semester structure. Indian Constitution should be taught by a lawyer or faculty from a Law College.



Semester -V

Entrepreneurship modules should be delivered by industry experts, covering: Entrepreneurship Development, Finance and Funding, Rules and Regulations, Business Registration Process

Semester -VI

Use general and globally accepted course nomenclature so courses are recognized worldwide.

Self-study hours distribution should be properly defined and balanced.

Databases used in courses should be real-time/industry-relevant datasets.

Mini-projects should be based on industry problems.

Semester -VII

Major projects should be assigned only through faculty-defined or industry-provided problem statements.

Provide automatic attendance provision (e.g., CCTV-based or digital systems).

MDM courses should be simple and easy to understand.

Provide clear prerequisite guidelines before students select elective courses.

Course overlap across different tracks/departments can be allowed where relevant.

Networking courses should be included in the curriculum.

Industrial safety-related chapters should be added in the curriculum.

➤ Agenda Item No.6: To discuss and approve the curriculum contents of Second Year

B. Tech - Revision 0

Second Year Courses:

1. Applied Maths 3

No suggestions

2. Maths Lateral Entry

No suggestions



3. Fundamentals of Robotics and AI

Contents are too heavy. Volume must be reduced

Kinematics unit can be removed

Robotics part of course must be taught by Mechanical faculty while AI part of course must be taught by CSE faculty.

4. Digital Systems and microprocessor

8085 practical must be more

5. Sensors and Actuator

IoT linking sensors must be included

6. Theory of Machines

No suggestions

7. Python Programming

Robotics library-based programs must be added

8. Hydraulics and Numatics

Correction in name of module I and II

Remote monitoring of Robots i.e. edge monitoring can be added to predict failure.

9. Data Structure and Algorithms

C can be removed

10. Microprocessor based systems

Industrial Communication Protocols can be added, E. X. RS 485 CAN bus,

Remove redundant contents

Connectivity should be maintained while taking contents from different books

11. Mobile and Micro Robotics

Change name of Unit no.3

Add introduction to mapping and localization in unit no.6

12. Data Analytics

Repetition of ML

In unit no.2, Take few tools example based instead of multiple tools



13. Signals System

Fourier Series, Fourier Transform, Laplace transform, Properties of signals, systems and convolution must be covered

Concluding Remarks

- Reduce the credits
- Give credits to club activities (25% of total credit)
- Usage of newsletter through quizzes or feedbacks
- There should be proper guideline of consideration of GATE of CSE or Mechanical for admission.
- 3D printing of components
- Can add more mini or minor projects wherever possible.

➤ **Agenda Item No. 07: Any other item with the permission of the chair**

No discussion held on any other point.


Member Secretary

Board of Studies (BoS)




Chairman

Board of Studies (BoS)



Action Taken Report

Action Taken on suggestions received in BoS Meeting held on 11th April 2026 for S.Y. B. Tech Robotics and Artificial Intelligence.

Sr. No.	Suggestions	Action Taken
1.	Basic courses should be retained for the Minor program.	Basic Courses Incorporated
2.	Total credits between 165 to 168 are acceptable.	Conveyed to Dean Academics- Total credits decided at Institute level is-176
3.	Open Electives should be interdisciplinary: like One course from Basic Sciences, One from Electrical Engineering, One from Civil Engineering, etc.	Conveyed to Dean Academics
4.	Image Processing should be offered before Machine Learning.	Included as PE-1 in Semester-4 before Machine Learning. Machine Learning is in Semester-5.
5.	Include Advanced Applied Mechanics for Robotic Design with application-oriented basics of Hydraulics and Pneumatics.	Discussed with Dean Academics and concluded as to include in next revision curriculum. Also required prerequisites of applied mechanics are included.
6.	Sensors related to IO-Link should be included.	Incorporated
7.	The following topics/Points should also be included:	
	Signal Conditioning	Incorporated
	Aerial Robotics	Present as a Lab Course in Sem.-VI
	Types of Robots	Incorporated
	Sensor Fusion	Present as a Lab Course in Sem.- IV
	Autonomous Navigation	Incorporated
	The Degree Certificate of SUK should mention Honors in Robotics and AI (RAI) or Specialization in Robotics and AI (RAI).	Conveyed to Dean Academics
8.	Sem_III Every lecture should end with a short survey/feedback to assess content delivery and student understanding.	Decided to use different ICT tools for the same such as Khoot.
9.	Sem_IV The long form of UHV (Universal Human Values) should be included in the 4th semester structure.	Included
10.	Indian Constitution should be taught by a lawyer or faculty from a Law College.	Conveyed to Dean Academics



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(NAAC A Grade Accredited Institute, ISO 9001: 2015 Certified)



11.	Sem_V Entrepreneurship modules should be delivered by industry experts, covering: 1. Entrepreneurship Development 2. Finance and Funding 3. Rules and Regulations 4. Business Registration Process	Conveyed to Dean Academics
12.	Sem_VI Use general and globally accepted course nomenclature so courses are recognized worldwide.	Incorporated as per BOS member suggestions.
13.	Self-study hours distribution should be properly defined and balanced.	As per guidelines by Dean-IQAC
14.	Databases used in courses should be real-time/industry-relevant datasets.	Will work through Industry Institute Interaction for getting Real Time data set.
15.	Mini-projects should be based on industry problems.	Will work through Industry Institute Interaction for getting sponsored Industry projects.
16.	Sem_VI Major projects should be assigned only through faculty-defined or industry-provided problem statements.	
17.	Provide automatic attendance provision (e.g., CCTV-based or digital systems).	Ongoing research projects
18.	Provide clear prerequisite guidelines before students select elective courses.	Existing process
19.	Course overlap across different tracks/departments can be allowed where relevant.	Conveyed to Dean Academics
20.	Networking courses should be included in the curriculum.	Incorporated
21.	Industrial safety-related chapters should be added in the curriculum.	Incorporated
22.	Second Year Courses:	
23.	Fundamentals of Robotics and AI Contents are too heavy. Volume must be reduced	Restructured as per BOS member suggestions.
24.	Kinematics unit can be removed	Removed
25.	Robotics part of course must be taught by Mechanical faculty while AI part of course must be taught by CSE faculty.	Decided as per BOS member suggestions.
26.	Digital Systems and microprocessor 8085 practical must be more	Incorporated
27.	Sensors and Actuator IoT linking sensors must be included	Incorporated

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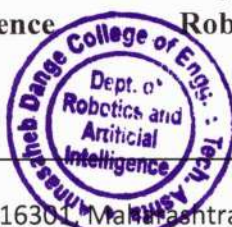
28.	Python Programming Robotics library-based programs must be added	Incorporated
29.	Hydraulics and pneumatics Correction in name of module I and II	Done
30.	Remote monitoring of Robots i.e. edge monitoring can be added to predict failure.	Incorporated
31.	Data Structure and Algorithms C can be removed	Incorporated
32.	Microprocessor based systems RS 485 CAN BUS can be added. Remove redundant contents Connectivity should be maintained while taking contents from different books	Changes done as per BOS member suggestions
33.	Mobile and Micro Robotics Change name of Unit no.3 Add introduction to mapping and localization in unit no.6	Restructured as per BOS member suggestions.
34.	Data Analytics Repetition of ML In unit no.2, Take few tools example based instead of multiple tools revert the contents.	Contents of Data Analytic course merged into other relevant courses and at the place of Data Analytics, Intelligent Decision Systems course is introduced as per suggestions in BOS meeting.
35.	Signals System Fourier Series, Fourier Transform, Laplace transform, Properties of signals, systems and convolution must be covered	Restructured as per BOS member suggestions.
Concluding Remarks		
36.	Reduce the credits	Conveyed to Dean Academics
37.	Give credits to club activities (25% of total credit)	Conveyed to Dean Academics
38.	Usage of newsletter through quizzes or feedbacks	Will work on the same
39.	There should be proper guideline of consideration of GATE of CSE or Mechanical for admission.	In process
40.	3D printing of components	Incorporated
41.	Can add more mini or minor projects wherever possible.	Decided to include

Y. V. Koli
Mr. Y. V. Koli

**BOS- Member Secretary
Robotics and Artificial Intelligence
Engineering**

S. S. Shinde
Dr. S. S. Shinde

**BOS, Chairman, Head of Department,
Robotics and Artificial Intelligence
Engineering**



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Approved: _____
Special Agent in Charge



Address: _____
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