

(An Autonomous Institute Affiliated to Savitribai Phule Pune University)
666, Upper Indiranagar, Bibwewadi, Pune 411 037

Department of Artificial Intelligence and Data Science

Stakeholder's Feedback collection,
Feedback Analysis,
Action Taken Report
and
Communicated to BoS

For AY 2022-23



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Department of Artificial Intelligence and Data Science

I) Stakeholder's Feedback collection for A. Y. 2022-23

- 1. Stakeholder's Feedback collected: Sample Teachers Feedback
- 2. Stakeholder's Feedback collected: Sample Employers Feedback
- 3. Stakeholder's Feedback collected: Sample Students Feedback
- 4. Stakeholder's Feedback collected: Sample Parents Feedback



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Department of Artificial Intelligence and Data Science

Stakeholder's Feedback collected: Sample Teachers Feedback

Title: Stake Holders Feedback on Curriculum

FF No. 750

Bansilal Ramnath Agarwal Charitable Trust's Vishwakarma Institute of Technology, Pune 37 (An Autonomous Institute Affiliated to Savitribai Phule Pune University)

Faculty/ Parents/ Employer/ Alumni/ Students Feedback on Curriculum and Structure Design / Review

Department: Artificial Intelligence & Data Science

AY: 2022 - 23

Kindly rate on the scale of 1 to 10. Consider 10 excellent and 1 poor.

Q. No.	Question	Rating On 1-10 scale	Remarks
1	Bridge the gap between industry requirements and academia.	9	
2	Potential for Employability.	a	
3	Curriculum covers the latest state of art topics.	2	
4	Reference material and books available.	a	
5	Blended learning and futuristic pedagogy.		
6	Evaluation methods for providing proper assessment.		
7	Hands-on component in the Curriculum is satisfactory.	a	
8	Covers of socially relevant issues.	7	······································
9	Curriculum gives inputs to students for business acumen and ethical practices.	9	-
10	Knowledge gain through project-based learning / project centric learning.	9	

Comments (If Any):

Name: Ms. S. M. Kambare

Organization: VIT, Pune.

Sign:

(Note: Feedback is to be taken at the end of every Academic Year from all stake

HEAD Department of Al & DS Vishwakarma Institute of Technology Pune - 411 037

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Department of Artificial Intelligence and Data Science

Stakeholder's Feedback collected: Sample Employers Feedback

Title: Stake Holders Feedback on Curriculum

FF No. 750

Bansilal Ramnath Agarwal Charitable Trust's
Vishwakarma Institute of Technology, Pune 37
(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

Faculty/ Parents/ Employer/ Alumni/ Students Feedback on Curriculum and Structure Design / Review

Department: Artificial Intelligence & Data Science Kindly rate on the scale of 1 to 10. Consider 10 excellent and 1 poor. AY: 2022-23.

Q. No.	Question	Rating On 1-10 scale	Remarks
1	Bridge the gap between industry requirements and academia.	9	
2	Potential for Employability.	10	
3	Curriculum covers the latest state of art topics.	C _f	
4	Reference material and books available.	8	
5	Blended learning and futuristic pedagogy.	X	
6	Evaluation methods for providing proper assessment.	9	
7	Hands-on component in the Curriculum is satisfactory.	Ġ l	
8	Covers of socially relevant issues.	a	
9	Curriculum gives inputs to students for business acumen and ethical practices.	8	
10	Knowledge gain through project-based learning / project centric learning.	9	

Comments (If Any):

Name: Anand Bhalve

Organization: Cadence

Sign: Malel

(Note: Feedback is to be taken at the end of every Academic Year from all stake holders)

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Department of Artificial Intelligence and Data Science

Stakeholder's Feedback collected: Sample Students Feedback

Title: Stake Holders Feedback on Curriculum

FF No. 750

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Faculty/ Parents/ Employer/ Alumni/ Students Feedback on Curriculum and Structure Design / Review

Department: Artificial Intelligence & Data Science Kindly rate on the scale of 1 to 10. Consider 10 excellent and 1 poor.

AY: 2022-23

Q. No.	Question	Rating On 1-10 scale	Remarks
1	Bridge the gap between industry requirements and academia.	7	
2	Potential for Employability.	8	
3	Curriculum covers the latest state of art topics.	9	
4	Reference material and books available.	9	
5	Blended learning and futuristic pedagogy.	9	<u> </u>
6	Evaluation methods for providing proper assessment.	a	
7	Hands-on component in the Curriculum is satisfactory.	<u> </u>	
8	Covers of socially relevant issues.	9	
9	Curriculum gives inputs to students for business acumen and ethical practices.	8	
10	Knowledge gain through project-based learning / project centric learning.	8	

Comments (If Any):

Name: Sejal kharche.

Organization: NJT Punc

sign: Skhundhe

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Department of Artificial Intelligence and Data Science

Stakeholder's Feedback collected: Sample Parents Feedback

Title: Stake Holders Feedback on Curriculum

FF No. 750

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Vishwakarma Institute of Technology, Pune 37
(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

Faculty/ Parents/ Employer/ Alumni/ Students Feedback on Curriculum and Structure Design / Review

Department: Artificial Intelligence & Data Science

AY: 2022-23

Kindly rate on the scale of 1 to 10. Consider 10 excellent and 1 poor.

Q. No.	Question	Rating On 1-10 scale	Remarks
.1	Bridge the gap between industry requirements and academia.	9	
2	Potential for Employability.	9	
3	Curriculum covers the latest state of art topics.	10	
4	Reference material and books available.	10	
5	Blended learning and futuristic pedagogy.	2	
6	Evaluation methods for providing proper assessment.	3	
7	Hands-on component in the Curriculum is satisfactory.	9	
8	Covers of socially relevant issues.	9	
9	Curriculum gives Inputs to students for business acumen and ethical practices.	2	
10	Knowledge gain through project-based learning / project centric learning.	3	

Comments (If Any):

Name: Siddhi Grajanan Manjiram

Organization: St. General Munayer.

Sign: 6. Ghanjanan

(Note: Feedback is to be taken at the end of every Academic Year from all stake holders)

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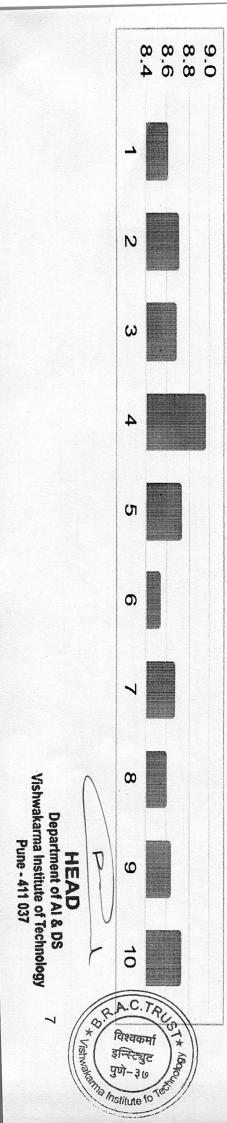


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Stakeholder's feedback collection for A. Y. 2022-23 and Feedback Analysis

	2022-23				
Total 8.41	Parents 3 8 7	Students	Employers	Teacher	
82	20	35	12	15	
		Average Score			Q.No
8.61	8.85	8.37	8.67	8.53	—
8.71	8.75	8.34	9.00	8.73	2
8.69	8.8	8.69	8.67	8.60	3
8.96	8.95	9.06	8.75	9.07	4
8.74	8.75	8.86	8.67	8.67	5
8.54	8.55	8.43	8.5	8.67	6
8.67	8.75	8.57	8.83	8.53	7
8.60	8.65	8.43	8.58	8.73	8
8.64	8.65	8.71	8.58	8.60	9
8.74	8.75	8.54	8.58	9.07	10





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Descriptive Feedback Analysis:

- 1. Parents: Based on analysis of feedback given by parents it is observed that:
 - a. Focus on courses which has wide usability in real time in sectors like automation, recommendation and decision making
 - b. Appreciated activities planned by the college for the development of students to procure entrepreneurship, to fetch jobs from competitive market etc
 - c. Parents are very much satisfied by project-based learning
- 2. Students: Based on analysis of feedback given by students it is observed that:
 - a. To include courses with advance topics which helps for employability, innovation and research
 - b. Focus on courses that are helpful for interviews
 - c. Overall assessment practices followed is satisfactory
- 3. Teachers: Based on analysis of feedback given by faculties it is observed that:
 - a. Include courses that forms reasoning, analytical skills for solving challenging problems
 - b. Incorporate novel ideas, follow good research practices to address complex problems
 - c. Follow creative, critical thinking and innovative practices
- 4. Industry: Based on analysis of feedback in IAB meeting it is observed that:
 - a. Learn ideas and concepts of latest technology that leads to effective business development
 - b. Focus on learning fundamental concepts with more practice
 - c. Course projects, major projects and internships helps to gain good hands-on experience

Over all Analysis: Based on complete strategy of feedback given by all stakeholders it is observed to include fee new courses which has usability in real time. Focus more on employability, creative and innovative practices. More practice should be emphasized to learn fundamentals and core concepts. Focus on creative, critical thinking and innovative practices to solve real real-world problems.



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III) Action taken report for AY 2023-24

The average scores for the all questions are found to be above 8.5 on the scale of 10.

- For Final year under Open elective industry had conducted the course "Financial Management & Costing".
- The NPTEL Swayam course Cyber Security and Privacy and Reinforcement Learning is offered to the Final year students for practicing the NEP.
- Linkedin course module "Generative AI and its applications" containing 5 small courses namely, Processing Text with Python Essential Training, Advanced NLP with Python for Machine Learning, Deep Learning Foundations: Natural Language Processing with TensorFlow, Recurrent Neural Networks and Generative AI: Working with Large Language Models are offered as an open elective for the Final year students.
- Additional two Linkedin Learning courses namely, Data modeling and forecasting and Critical Thinking are offered as an audit courses to the TY Advanced and Weak learners.
- Additional two Linkedin Learning courses namely, Simple statistics for user experience projects and Communication foundations are offered as an audit courses to the SY Advanced and Weak learners.
- Updated the assessment scheme.



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Communication to the BoS-Artificial Intelligence and Data Science

The Agenda of BOS meeting Dated 17.08.2023

- 1. Structure & Syllabus for A.Y. 2023-24
- 2. PCC course of F.Y. B.Tech as per NEP
- 3. PCC, PEC, MDM, OE courses as per NEP
- 4. Department Vision, Mission
- 5. Department PEOs & PSOs
- 6. NBA Preparation





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बन्धीलाल रामनाथ अगरबाल चींग्रेबल दुस्ट मंचलित

विश्वकर्मा इन्स्टिट्यूट ऑफ टेक्नॉलॉजी

(साविजीवाई फुले पुणे विद्यापीठाशी संलय स्वायत्त संस्था) ६६६, अपन इंदिरानगर, बिनवेवाडी, पुणे - ४११ ०३७.

Approved by A. I. C. T. E. New Delhi



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Date: 17-08-2023

Minutes of the meeting of Board of Studies Artificial Intelligence and Data Science, Vishwakarma Institute of Technology, Punc- 411 037 held on Thursday, 17-08-2023.

Via a company a Institute of Technology

Meeting No: BOS/A1&DS/01/2023

Venue: Conference Hall, Vishwakarma Institute of Technology, Punc.

Date and Time: Thursday, 17-08-2023 at 4 pm.

Subject: Department of Artificial Intelligence and Data Science Board of studies Meeting

The following members were present:

- · Prof. (Dr.) S. P. Dongre (BoS Chairman)
- Prof. (Dr.) M. V. Kulkarni
- · Prof. (Dr.) S. D. Thepade
- · Prof. (Dr.) V. K. Panchghare
- Prof (Dr.) M. A. Shah
- · Prof. (Dr.) G. D. Upadhye
- Prof. Z. K. Mundargi
- · Prof. V. S. Rajput
- Mrs. U. S. Patil

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- Mr. S. V. Oswal
- Miss. Vithika Pungliya
- All other faculty members of Artificial Intelligence and Data Science Department

The meeting started with warm welcome by Prof. (Dr.) S. P. Dongre Head, Department of Artificial Intelligence and Data Science extended to all the members of the Board of Studies and welcome speech is given by Prof. Z. K. Mundargi.

The Board of Studies considered the items on the agenda and the items permitted by the Chair and the following resolutions were passed.

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Department of Artificial Intelligence and Data Science

वन्यालाल गापनाच आगावाल चीरदेवल इस्ट गाँवलिय

विश्वकर्मा इन्स्टिट्यूट ऑफ देवनॉलॉजी (मावित्रीबाई फुले पुणे विद्यापीठाशी संलग्न स्वायत्त संस्था) ६६६, अप्स इंग्लिमग, विववेवाडी, पुणे - ४११ ०३७.

Approved by A. I. C. T. E. New Delhi.

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Item-1 To read and confirm the minutes of the last meeting.

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Resolution: The minutes of the last meeting were read. Discussion happened on previous meeting points. Prof. S.P. Dongre presented and discussed the action taken regarding those items. The minutes of the last meeting were confirmed without any modification.

Proposed by : Prof. (Dr.) S. P. Dongre
Seconded by : Prof. (Dr.) S. D. Thepade

Item - 2 : Presentation of the UG program structure and syllabus for AY 2023-24

Resolution: Prof. (Dr.) S. P. Dongre presented the structure and syllabus of FY, SY, TY and BTech for AY 2023-2024. In that presentation emphasis given on the credits given to Program Core Courses (PCC), Program Electives Courses (PEO). MDM (Multi-disciplinary Minor), Open Electives as per New Educational Policy (NEP). Prof. (Dr.) S. P. Dongre presented elective buckets for BTech final year. All members appreciated the variation in the elective courses. As per NEP, PPL (Principles of Programming Language) course is suggested by Artificial Intelligence and Data Science Department.

Prof. (Dr.) S. D. Thepade given emphasis to see the changes included in the syllabus as per new NEP policy. Prof. (Dr). M. A. Shah and Mr. S.V. Oswal have given suggestions regarding the internship module that it should have rubrics for assessment of module. It is confirmed by Dr. M. V. Kulkarni that department is following rubrics for internships as well as for projects.

Prof. (Dr.) V. K. Panchghare suggested that PPL (Principles of Programming Language) course lab should be conducted in C- Programming Language. In the context of final year subject discussion, Prof. (Dr.) V. K. Panchghare suggested that Computer Graphics subject should be included in the earlier semester. For Mobile Application Development course, Prof. (Dr.) M. A. Shah suggested alternative name i.e. App Development or Web Development.

Regarding EDI (Engineering Design and Innovation) projects, Prof. (Dr). M. A. Shah suggested that the idea should be converted to the product may be in terms of Startups, patent or Research

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Department of Artificial Intelligence and Data Science

बन्सीलाल सम्बाध अगरवाल चौरदेवल इस्ट संचित्रत

विश्वकर्मा इन्स्टिट्यूट ऑफ टेक्नॉलॉजी (सावित्रीबाई फुले पुणे विद्यापीठाणी संलग्न स्वायत्त संस्था) ६६६, अप्य इंटिसनगर, विवर्ववाडी, पुणे न ४११,०३५

annoyed by A. I. C. T. E. New Delhi

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Paper, Dr. M. V. Kulkarni confirms that in the next subsequent semester in the Design Thinking subject the EDI project is converted to Research Paper. So as to reduce the operational overhead regarding the EDI and Design Thinking subjects Prof. (Dr.) M. A. Shah suggested that both subject should have same guide.

Prof. (Dr.) M. A. Shah suggested that hardware subject should be included in the curriculum. Mrs. U. S. Patil suggested that programming paradigm should be included in the curriculum. Mr. S. V. Oswal suggested that student should learn integration of Artificial Intelligence Tools.

Prof. (Dr.) S. P. Dongre confirms that it will be implemented in the department.

Proposed by : Prof. (Dr.) S.P. Dongre

Seconded by Prof. (Dr.) S. D. Thepade, Prof. (Dr.) V. K. Panchghare and Prof. (Dr.). M. A. Shah

 $\underline{\text{Item} - 3} \qquad \qquad : \textbf{Discussion on Credit Distribution of the courses.}$

Resolution : Prof. (Dr.) S. P. Dongre presented the credit distribution of FY, SY, TY and

BTech courses for AY 2023-2024.

Prof. (Dr.) S. D. Thepade suggested that Programming Practice Courses and Employability Enhancement Courses should be included in the first year. It is unanimously decided that more credits must be given to core courses rather than other courses.

Prof. (Dr.) S. P. Dongre confirms that, it will be communicated to FY BOS.

Prof. (Dr.) S. D. Thepade suggested overall percentage distribution as follows:

Artificial Intelligence: 25%, Computing: 50%, Data Science: 25%.

Prof. (Dr.) S. P. Dongre confirms that similar kind of distribution done for AY 2023-2024 FY,

SY, TY and BTech courses.

Proposed by : Prof. (Dr.) S. P. Dongre Seconded by : Prof. (Dr.) S. D. Thepade

Item - 4 : Finalization of Vision, Mission, PEO (Program Educational Objectives) and

PSO (Program Specific Outcome)

Resolution : Prof. S.P. Dongre presented the department vision, mission, PEO and PSO.

Dr. S. D. Thepade suggested that vision should be quantifiable and measurable and for that

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विश्वकर्मा इन्स्टियुट पुणे-३७



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Department of Artificial Intelligence and Data Science

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Approved by A. I. C. T. E. New Delhi



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Some rubrics should be designed.

Dr. V. K. Panchghare suggested that mission should be reflected in the department development Plan, for this they suggested to have department development plan.

The Program Educational Objectives should not exceed beyond number 4 suggested by all the BOS external members and it is confirmed that it is followed in this department.

Regarding Program Specific Outcome suggestion given by Dr. S. D. Thepade that it should be program specific i.e. Artificial Intelligence and Data Science Department program as it looks

Prof. (Dr.) S. P. Dongre confirms that will modify and update.

: Prof. (Dr.) S. P. Dongre

Seconded by

: Prof. (Dr.) S. D. Thepade and Prof. (Dr.) V. K. Panchghare

Item - 5

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No.

: Preparation and Planning Exercise of NBA (National Board of Accreditation)

Resolution

: Prof. (Dr.) S. P. Dongre specifically asked to give suggestions regarding the

NBA preparation to all the BOS members.

(Dr.) V. K. Panchghare suggested that there should be direct and indirect assessment followed for calculating attainments. Also suggested to maintain SFR (Student Faculty ratio) in the program.

Prof. (Dr.) S. P. Dongre confirms that direct and indirect assessment is followed in the department.

Proposed by

: Prof. (Dr.) S. P. Dongre

: Prof. (Dr.) S. D. Thepade and Prof. (Dr.) V. K. Panchghare

Miss. Vithika Pungliya, given overall conduction and practices implemented in the department. There was no other item presented by the members other than the items above. The meeting concluded with a vote of thanks given by Prof. (Dr.) Gopal. D. Uapdhye.

Chairman, BoS

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IV) Hosted on the institutional website

Website Link for Stakeholder's Feedback Report for AY 2022-23:

 $\underline{https://www.vit.edu/AIDSC/images/Stakeholders\%20feedback/1.4.1_AI\&DS_Analysis\%20and\%20Action\%20Taken\%20Reports\%20for\%202022-23.pdf$

HOD HEAD Department of AI & DS Vishwakarma Institute of Technology Pune - 411 037 Dean QA

Dean - Quality Assurance Vishwakarma Institute of Technology, Pune-411037. Director

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