CRITERION 1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60

1. VISION, MISSION AND PROGRAM EDUCATONAL OBECTVES (60)

1.1. Vision and Mission of the Department and Institute (5)

1.1.A. Vision and Mission statements of the Department

Institute Vision
To become a premier institute committed to academic excellence and global competence for the holistic development of students.

Key Words:
Academic excellence, Global competence, and Holistic development.

Institute Mission
M1: Develop competent human resources, adopt outcome based education (OBE) and implement cognitive assessment of students. **M2:** Inculcate the traits of global competencies (such as domain expertise, accountability, ethics, problem solving ability, communication skills, leadership qualities and life-long learning) amongst the students. **M3:** Nurture and train our students to have domain knowledge, develop the qualities of global professionals and to have social consciousness.

Department Vision
To deliver a quality and responsive education in the field of artificial intelligence and data science emphasizing professional skills to face global challenges in the evolving IT paradigm.

Keywords:
quality and responsive education, professional skills and global challenges.

Department Mission
M1: Leverage multiple pedagogical approaches to impart knowledge on the current and emerging AI technologies. **M2:** Develop an inclusive and holistic ambiance that bolsters problem solving, cognitive abilities and critical thinking. **M3:** Enable students to develop trust worthiness, team spirit, understanding law-of-the-land, social behavior to be a global stake holder.

1.1.B. Appropriateness/Relevance of the Statements

The three keywords identified in the Institute Vision are academic excellence, global competence and holistic development. Keeping in tune with these keywords, the Department Vision is articulated to focus on quality education, professional skills and global challenges. Our focus in the department is to provide quality education so that our students become competitive at the global level.

The quality education in our perspective is to:

- demonstrate the knowledge of science, engineering, technology and mathematics(STEM),
- demonstrate the proficiency in the domain area, and aptitude for creativity, innovation and research,
- demonstrate comprehensive understanding of information technology, digital competency and related advanced concepts, and
- demonstrate an understanding project planning management, and the impacts of projects on various stakeholders (team members, clients, users).

With these objectives of the quality education, we envisage that the relevance of department vision meets the aspirations of the Institute Vision.

Consistency of the Department statements with the Institution statements.

1.1.B.1.1. Consistency of the Department vision with Institute vision.

Department Vision

To deliver a **quality and responsive** education in the field of artificial intelligence and data science emphasizing **professional skills** to face **global challenges** in the evolving IT paradigm.

Keywords: quality and responsive, professional skills, global challenges.

Institute Vision

To become premier institute committed to academic excellence and global competence for the holistic development of students.

Key words: academic excellence, global competence, holistic development

Fig 1.1a Consistency between Department vision with Institute vision

Department/Institute	Keyword 1 **academic excellence**	Keyword 2 **global competence**	Keyword 3 **holistic development**
Keyword 1 **Quality education**	**3**	**1**	**1**
Keyword 2 **Professional skills**	**2**	**3**	**2**
Keyword 3 **Global challenges**	**2**	**3**	**2**

Table 1.1a Consistency Matrix between Department vision with Institute vision

Level 1: Low, Level 2: Medium, Level 3: High.

Relevancy of Consistency

R-Row

C-Column

1R1C: The department of Artificial Intelligence and Data Science achieves academic excellence and provides quality and responsive education by implementing innovative pedagogical and logical approaches, outcome-based education, imparting knowledge in current and emerging computing technologies and by encouraging students to take up socially relevant projects using relevant and advanced computing technologies.

1R2C and 1R3C: The quality education also addresses global competence and holistic development in terms of technical knowledge and relevant professional skills respectively.

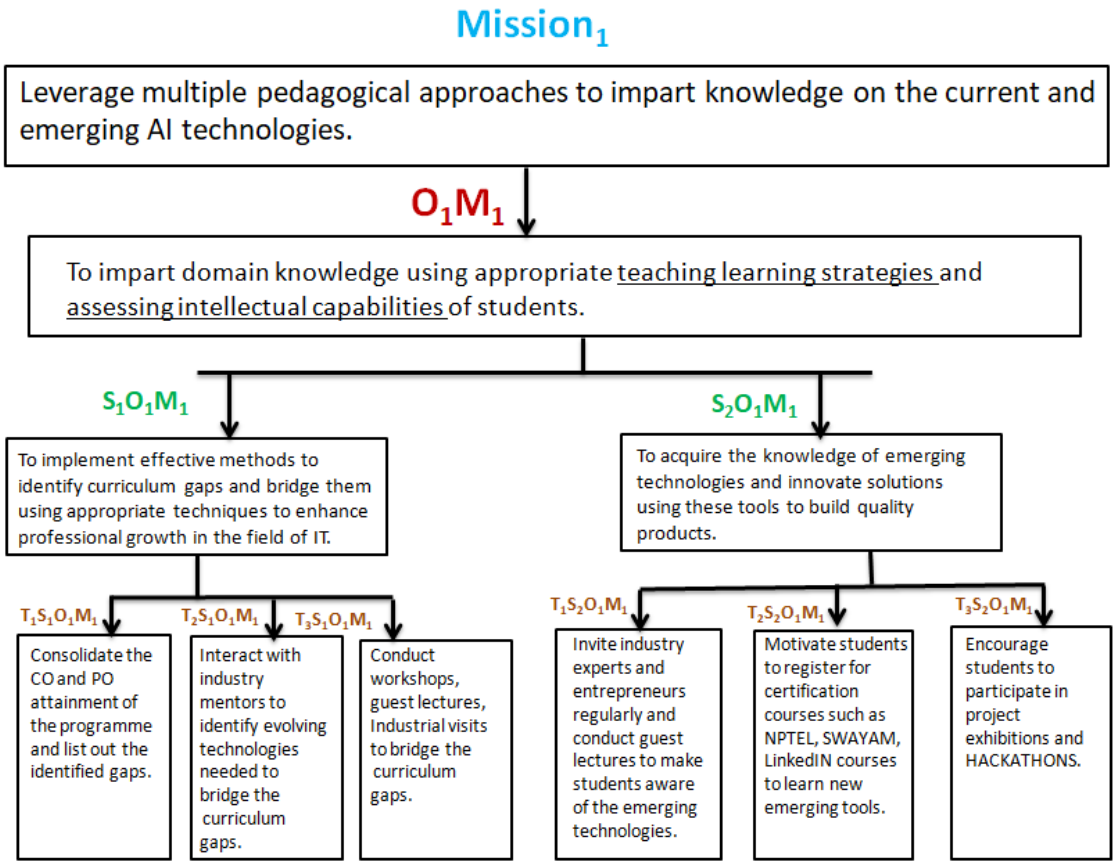
2R3C: Professional skills are imbibed in students by promoting good conduct, fostering their analytical and communication skills, and nurturing the spirit of critical thinking leading to holistic development of students.

2R1C and 2R2C: In the process of making our students competent engineers, the necessary academic knowledge and global skills are imparted to the overall development of students.

3R2C: Students are embellished, in addition to domain knowledge with global skills to develop leadership qualities, professional ethics, and by being effective problem solvers with an attitude of lifelong learning commitment for world-wide employability.

3R1C and 3R3C: In the process of providing our students with global exposure, theoretical, and practical awareness, and professional traits are also imparted as a part of global needs.

The execution strategies and action plans are elucidated in tactics.



1.1.B.2. Consistency of the Department mission with Institute mission.

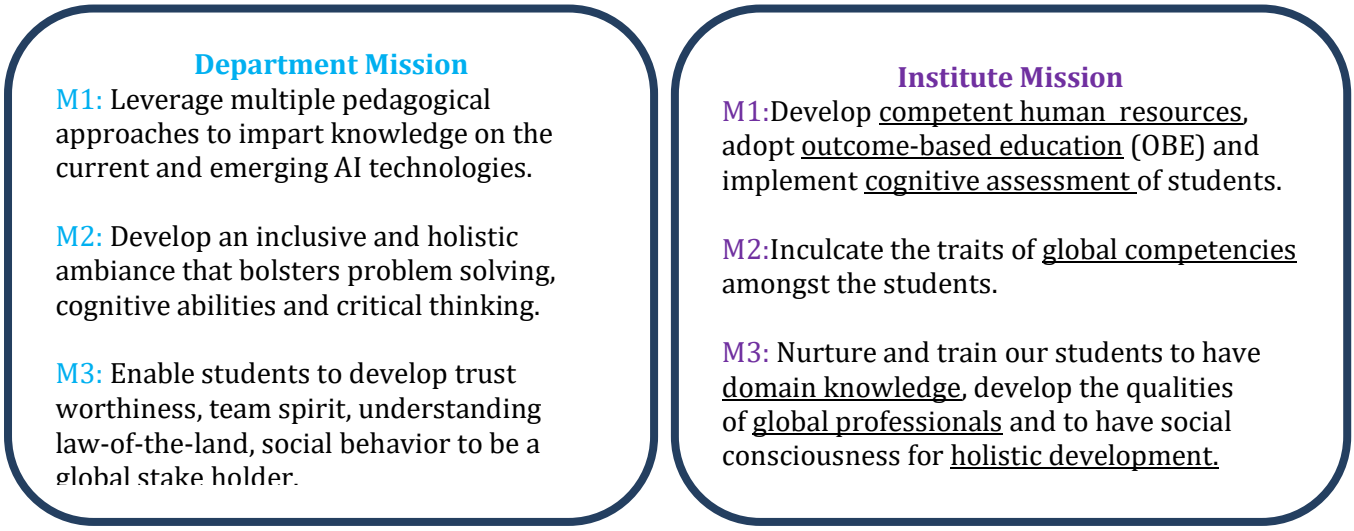


Fig 1.1.b: Consistency between Institute mission and Department mission

Table 1.1.b: Consistency between Institute mission and Department mission

Level 1: Low, Level 2: Medium, Level 3: High.

		Institute Mission		
		M1	**M2**	**M3**
Department Mission	**M1**	**3**	**2**	**1**
	M2	**2**	**3**	**1**
	M3	**1**	**1**	**3**

Relevancy of Consistency

1R1C: The department of Artificial Intelligence and Data Science provides quality education by imparting knowledge in emerging technologies by adopting innovative pedagogical approaches and by outcome-based education (OBE). The innovative pedagogical approaches include, in addition to conventional teaching, flipped teaching, cohort-based teaching, case studies, etc. We envisage that these various approaches will make our students, understand, and comprehend what is taught in classrooms. The OBE starts with a clear picture of what is important and significant for students to be able to do thereby learning and proliferating their students skills. Through OBE we want to make sure that learning ultimately happens with necessary skills and attitude.

1R2C and 1R3C: The holistic development of students and enhancement of global skills is also addressed by providing knowledge on latest computing technologies.

2R2C: The traits of global competencies are instilled among students by creating a conducive environment that is supportive of the development of analytical and communication skills, as well as societal and ethical responsibility in all professional pursuits. Global competencies cover personal characteristics(profiling) for flexibility, interpersonal skills to focus on students ability to work independently in global teams, to understand and appreciate cultural sensitivity to embrace diverse viewpoints, to work and support ecosystem where there is no gender bias, and under the social issues; such as poverty, illiteracy, corruption, environment, etc.,(to support Sustainable development goals).

2R1C and 2R2C: In the process of supporting outcome-based education and promoting holistic development of students, the necessary analytical skills, communication skills and professional traits are inculcated, and cognitive skills of students are assessed. The cognitive skills are assessed based on Bloom's taxonomy.

3R3C: To promote overall development, the students are equipped with problem-solving skills and leadership abilities to adapt better to the changing global scenario and are envisioned to instill an attitude of lifelong commitment to learning. In this endeavor, our focus is to make our students to acquire and apply fundamental principles of domain area(problem solving), to acquire technical competence specialized area of discipline, to find solutions for societal issues, to understand frugality (cost effectiveness), to commit to professional and ethical responsibilities, to be able to acquire multi-skills with domain knowledge, management and leadership skills, entrepreneurship qualities, and to have enthusiasm and motivation for lifelong learning and professional development.

3R1C and 3R2C: Problem-solving abilities of students are enhanced and emphasized on in the direction of addressing issues related to society to develop their reasoning abilities and shape them into skilled engineers.

1.2. State the Program Educational Objectives (PEOs) (5)

(State the PEOs (3 to 5) of program seeking accreditation*)*

The PEOs of the program are as follows:

Graduates will be able to:

PEO 1: Build a strong foundation in mathematics, core programming, artificial intelligence, machine learning, and data science to enable graduates to analyze, design, and implement intelligent systems for solving complex real-world problems.

PEO 2: Foster creativity, cognitive and research skills to analyze the requirements and technical specifications of software to articulate novel engineering solutions for an efficient product design.

PEO 3: Prepare graduates for dynamic career opportunities in AI and Data Science by equipping them with interdisciplinary knowledge, adaptability, and practical exposure to tools and techniques required for industry and research.

PEO 4: Instill a strong sense of ethics, professional responsibility, and human values, empowering graduates to contribute positively to society and lead with integrity in their professional domains.

PEO 5: Encourage graduates to pursue higher education, certification program, entrepreneurial ventures, etc. by nurturing a mindset of continuous learning and awareness of global trends and challenges.

1.3. Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (10)

The Vision, Mission and PEO statements are published and disseminated through:

- Department webpage : **https://ai.aitmbgm.ac.in/**
- HOD Cabin
- Staff Rooms
- Notice Boards of the department
- Department Laboratories
- Department Corridor
- Bluebooks (assessment books)
- Lab Manuals
- Brochures
- College Diary
- Class Rooms
- Department magazine
- Course file
- Seminar/Project/Internship Reports.

In addition to this, Vision, Mission and PEOs are disseminated to internal and external stakeholders of the programmes through Faculty meetings, Parent meetings, Alumni meets etc.

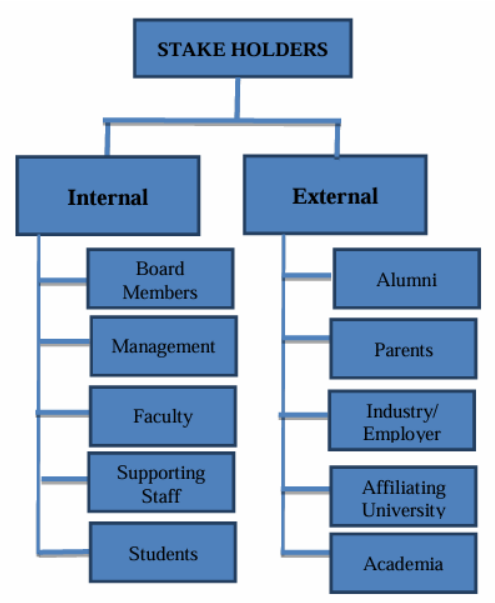
List of Stake Holders

Internal:

1. Students
2. Faculty
3. Supporting Staff
4. Management
5. Governing Board Members

External:

1. Alumni
2. Parents
3. Industry/employer
4. Affiliating University
5. Academia



1.4. Process for defining the Vision and Mission of the Department, and PEOs of the program (25)

1.4.A. The process followed for phrasing the Vision and Mission Statements of the department is depicted in Fig.1.4.1

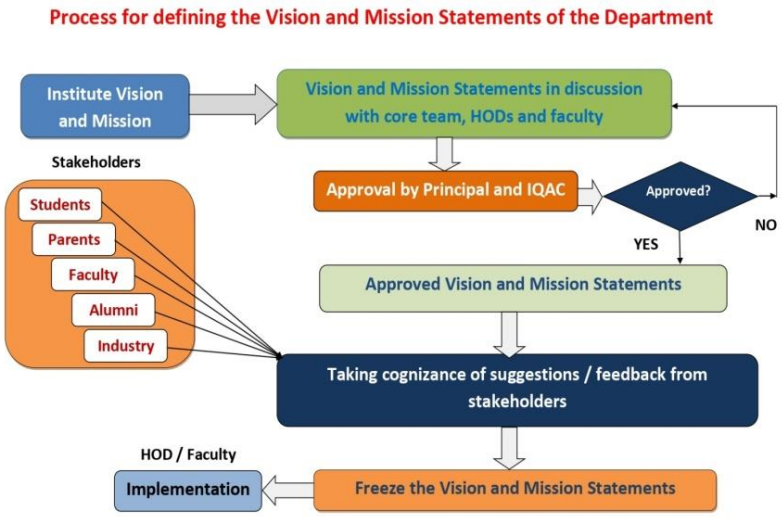


Fig.1.4.1: Process for defining the Vision and Mission Statements of the Department.

In the department core team, the HOD elucidated the philosophy in articulating the Institute Vision and Mission statements. In tune with these statements, the department core team discussed the program philosophy in formulating the department Vision and Mission statements. The department core team discussed and collected the views of all the members and came up with a few tentative Vision statements. After detailed discussion, the department core team zeroed in on a Vision statement. Based on the identified keywords of the Vision statement, the Mission statements correlating with each keyword are articulated.

After elaborated discussions in the department parleys, the Vision and Mission statements are formulated and then forwarded to the Principal and IQAC for approval, based on the suggestions given by Principal and IQAC necessary modifications are done. Further, views and opinions from the internal and external stakeholders are collected. Once the Vision and Mission statements of the department are established, the HOD and Faculty of the department are given the responsibility for further implementation and execution as per the directions of the principal.

1.4.B. The process followed for defining the Program Educational Objectives (PEOs)

Our programs PEOs are broad statements that describe the career and professional accomplishments that the program is preparing our graduates to achieve. The PEOs are consistent with the mission statements of the department. The flowchart for articulating the PEOs of the program is depicted in **Fig. 1.4.2.**

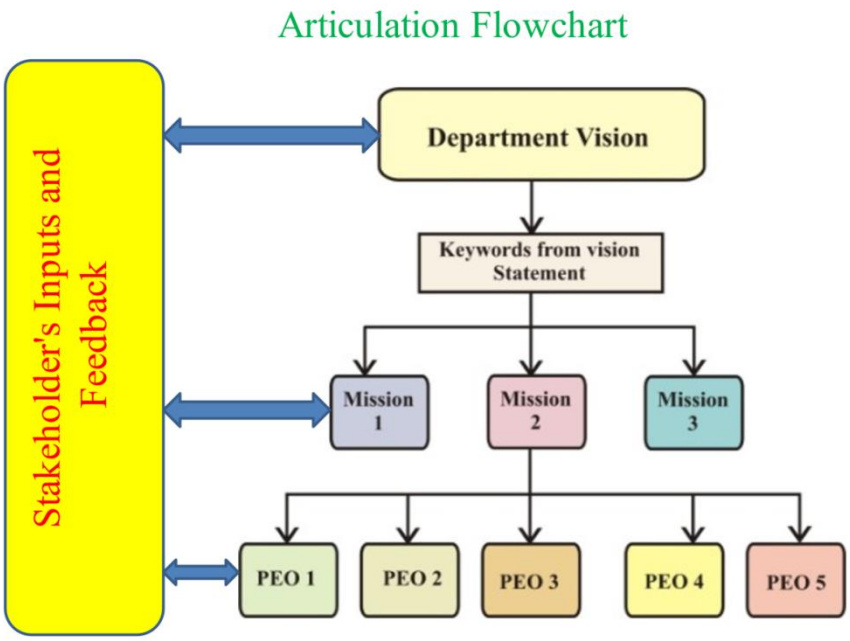


Fig.1.4.2: The articulation flowchart for PEOs.

Based on the above articulation flowchart, the process for defining the program PEOs is formulated and shown in Fig. 1.4.3.

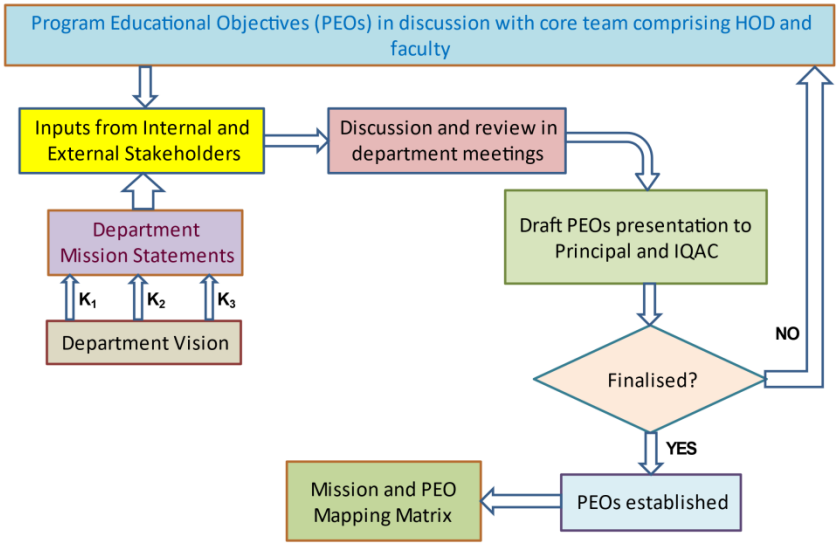


Fig.1.4.3: Process for defining the Program PEOs.

With inputs from the vision and mission statements of the department, the HOD outlined the purpose and guidelines in formulating the PEOs of the program to the department core team. Following this, the department core team formulated the draft PEOs. The formulated PEOs are then communicated to the internal and external stakeholders of the department. After elaborated discussions and reviews in the department meetings, the draft PEOs are presented to the Principal and IQAC. Taking cognizance of their views, the necessary modifications are carried out, and the whole process as depicted in Fig.1.4.3 is repeated. Once the PEOs are established, the further processes of mapping and implementation are carried out.

1.5 Establish consistency of PEOs with Mission of the Department (15)

Following the procedure as elucidated in 1.4.1B the established PEOs of the program are as follows:

Note: M1, M2 ,....Mn is distinct elements of Mission statement. Enter correlation levels 1, 2 or 3 as Define below

1: Slightly(Low), 2: Moderate(Medium), 3: Substantial(High), 4: No correlation(-)

The PEOs of the program are as follows:

Graduates will be able to:

PEO 1: Build a strong foundation in mathematics, core programming, artificial intelligence, machine learning, and data science to enable graduates to analyze, design, and implement intelligent systems for solving complex real-world problems.

PEO 2: Foster creativity, cognitive and research skills to analyze the requirements and technical specifications of software to articulate novel engineering solutions for an efficient product design.

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PEO 4: Instill a strong sense of ethics, professional responsibility, and human values, empowering graduates to contribute positively to society and lead with integrity in their professional domains.

PEO 5: Encourage graduates to pursue higher education, certification program, entrepreneurial ventures, etc. by nurturing a mindset of continuous learning and awareness of global trends and challenges.

Mission/PEOs	PEO1	PEO2	PEO3	PEO4	PEO5
M1	2	2	3	_	_
M2	1	1	1	3	2
M3	1	2	2	2	3

1R1C and 1R2C: The relevant pedagogical approaches such as peer and collaborative learning, brainstorming sessions, case studies, flipped classrooms, interactive learning system, etc., enable our students to learn the fundamentals of STEM, concepts of computer engineering, and to imbibe software engineering skills, programming skills and problem-solving skills necessary to solve IT related problems.

1R3C: The knowledge provided to students in emerging technologies through workshops, guest lectures and curriculum help them to gain the ability to build software products so that they can either lead a team or become an effective team member providing modern engineering solutions to multidisciplinary projects.

1R4C and 1R5C: No correlation

2R1C, 2R2C and 2R3C: Students are motivated to develop software products that provide solution to problems pertaining to society and are inspired to participate in project exhibitions, KSCST/VTU sponsored projects, HACKATHON etc. Students are encouraged to learn emerging technologies and explore their creative potential to solve IT related engineering problems.

2R4C: To make our students globally competent it is imperative that the students are ought to be aware of cultural sensitivity, gender equality and egalitarian way of life. Further, students shall have the ability to think both critically and creatively, ability to think individually and cooperatively, ability to maintain a positive self-image and confidence, shall demonstrate willingness to learn.

2R5C: As a part of department activities, various events such as quiz competitions, group discussions, debate, soft skills training, and aptitude tests are arranged which help students to enhance their problem-solving capability, enhance communication skills, and imbibe leadership qualities with an attitude of lifelong commitment to learning.

3R1C: It is prudent that our students shall have necessary technical knowledge to be professionally competent. This aspect, by and large, is met by the university curriculum and the various activities conducted by the department.

3R2C, 3R3C and 3R4C: Students are encouraged to undergo internship programs so as to improve their problem-solving skills and are prepared on the standards required at the global level. Visit to IT/Software industries and interactive lectures of IT personnel are arranged for the students to provide exposure to the emerging technologies.

3R5C: To be professionally competent, one must keep learning and update technical knowledge. To inculcate this trait of lifelong learning, the department initiates a lot of activities in the form of technical lectures by experts, industrial visits, experiential learning, technical quizzes, technical presentations etc. Apart from this, students are exposed to professional skills such as communication (Verbal and Writing), behavior, attitude, decision making etc.

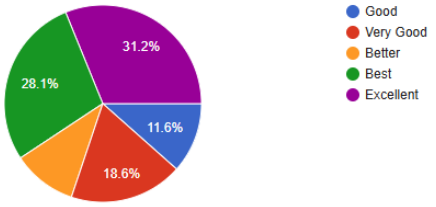
Mission Statement of the Department

Copy chart

M1 :

Leverage multiple pedagogical approaches to impart knowledge on the current and emerging AI technologies.

199 responses

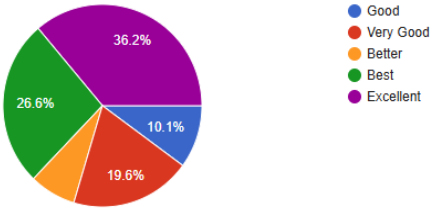


Vision of the Department

Copy chart

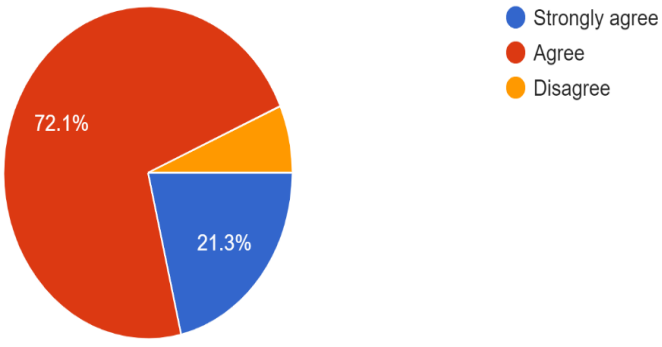
To deliver a **quality** and **responsive education** in the field of artificial intelligence and data science emphasizing **professional skills** to face **global challenges** in the evolving IT paradigm.

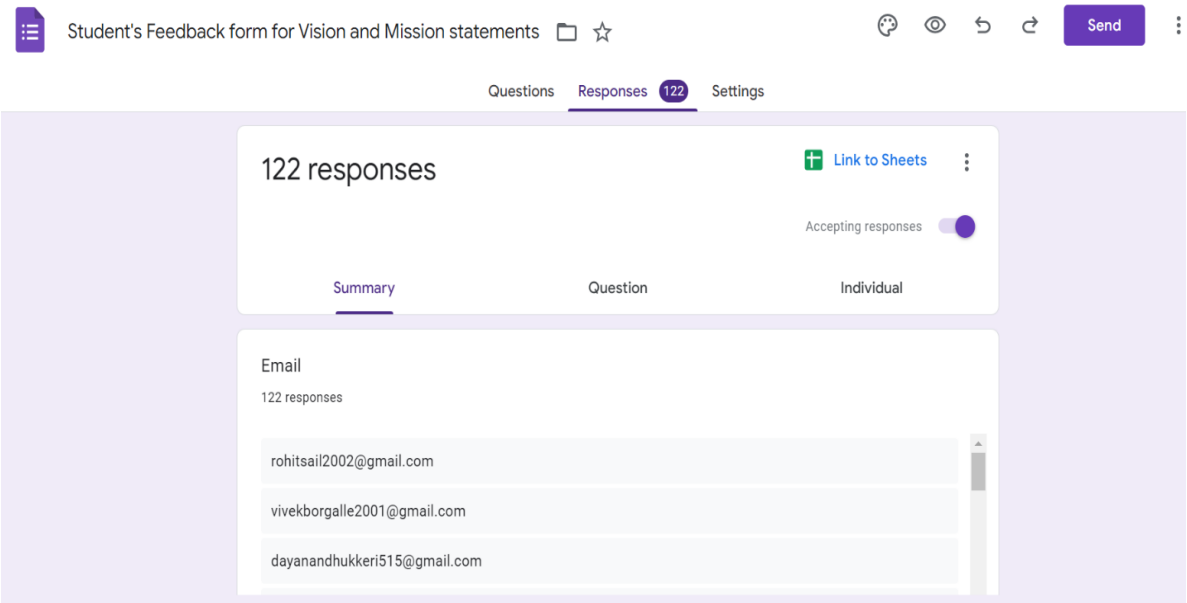
199 responses



Institute Vision To become a premier institute committed to academic excellence and global competence for the holistic development of studen...an Organization to produce competent engineers?

122 responses




Student's Feedback form for Vision and Mission statements
Send
Questions
Responses 122
Settings
122 responses
Link to Sheets
Accepting responses
Summary
Question
Individual
Email
122 responses
rohitsail2002@gmail.com
vivekborgalle2001@gmail.com
dayanandhukkeri515@gmail.com

Vision of the Department

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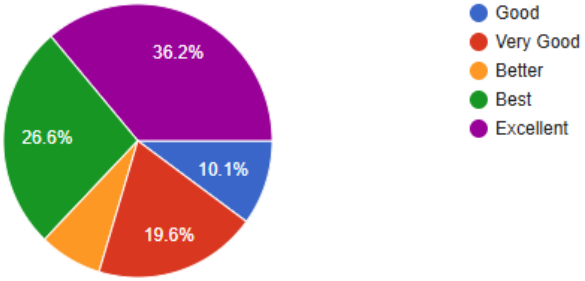
199 responses



199 responses

Link to Sheets

Summary Question Individual

Type of Stakeholder

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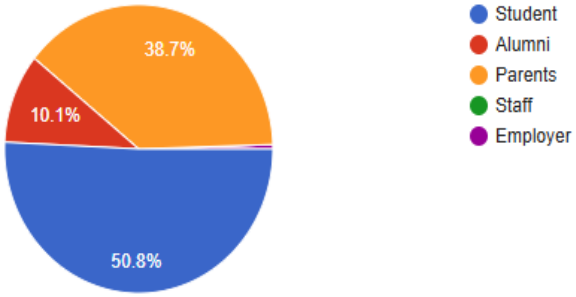
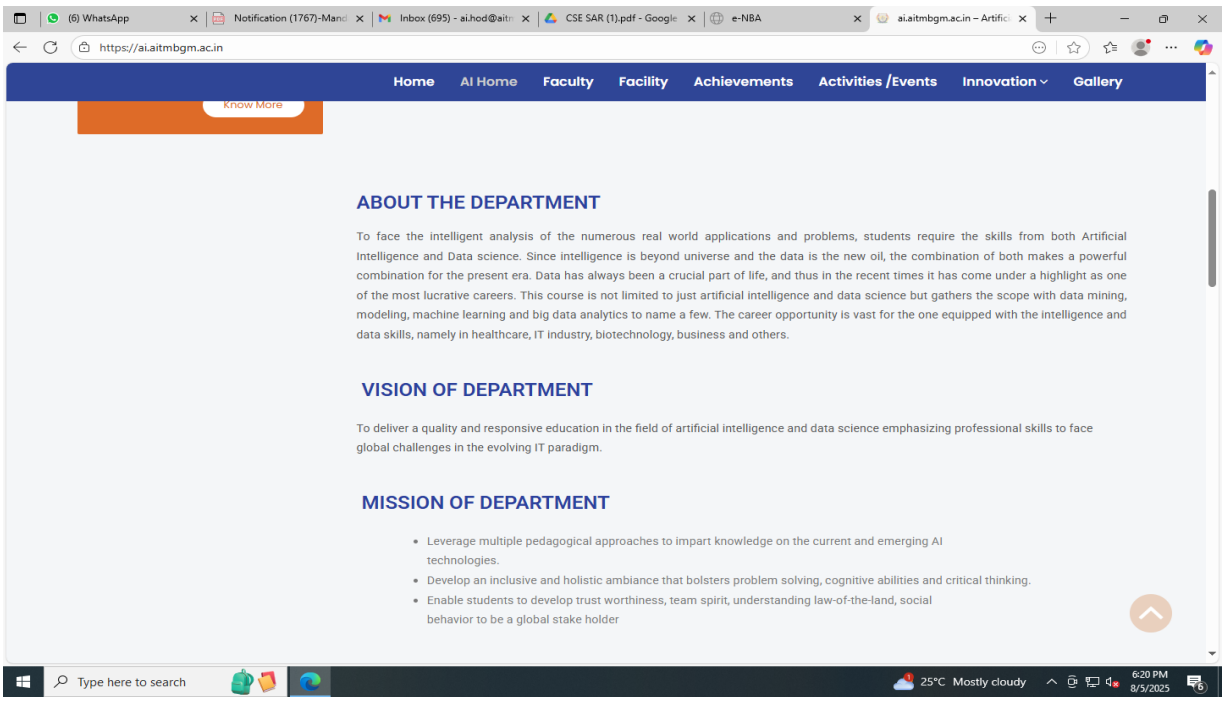
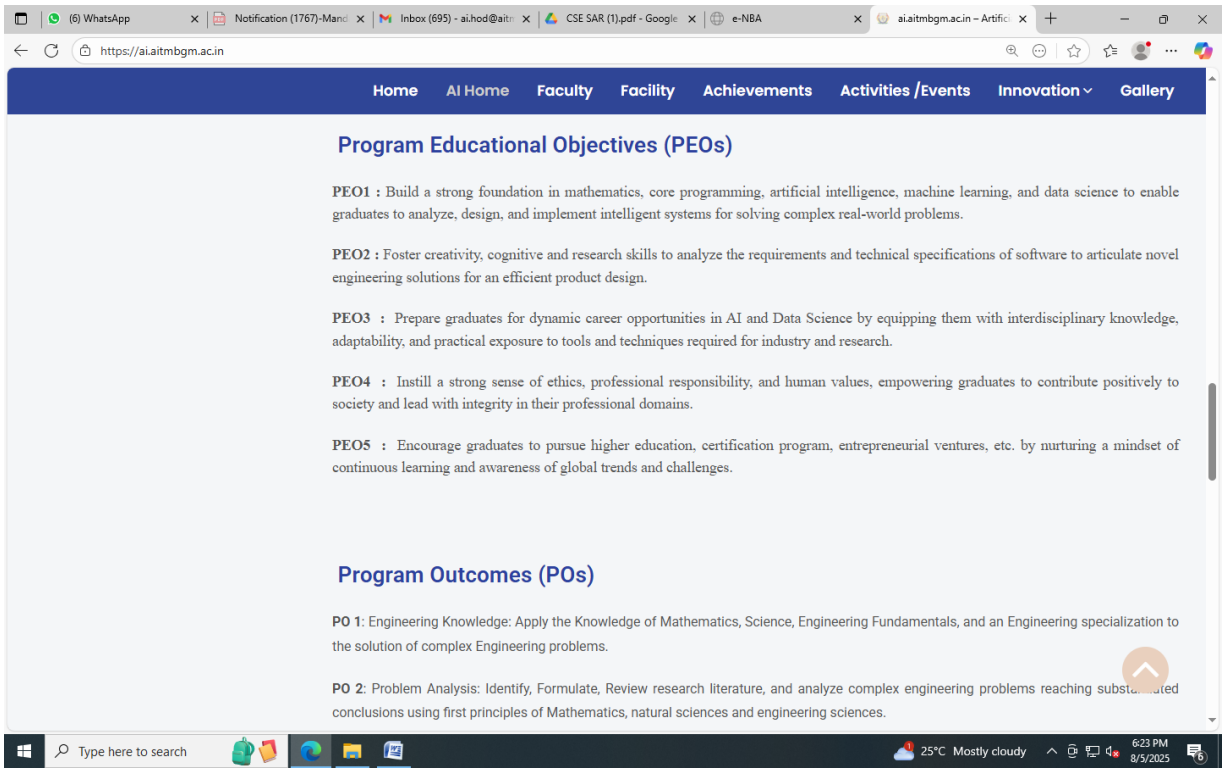
199 responses



Dissemination of Vision and Mission Statement

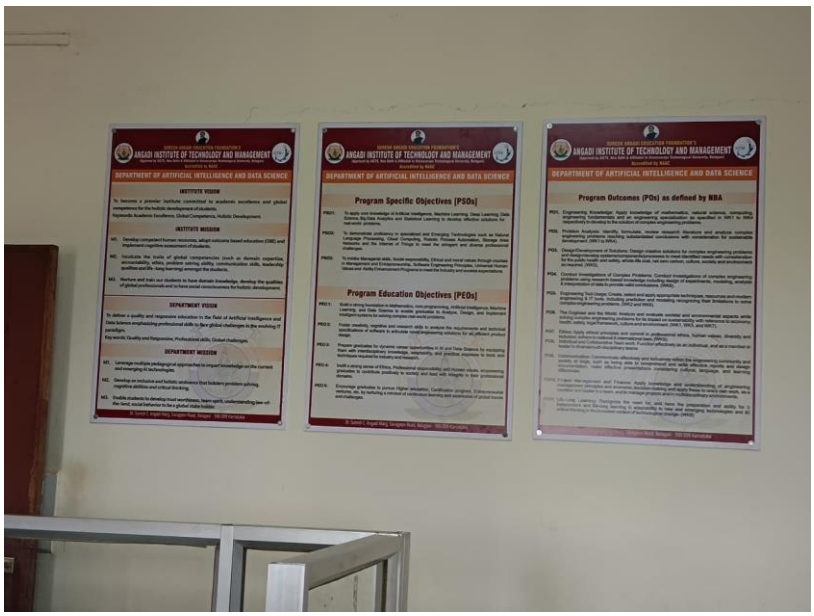
Department webpage: https://ai.aitmbgm.ac.in





HOD Cabin:

Staff Room:



Department Corridor:

Department Classroom:

Department Lab:

Department E-News Letter

Message from: Principal & Director

Dr. Anand Deshpande

An Institute is assessed on the basis of the Academic ambiance and outcome of the system in terms of performance and achievements of the students and staff in teaching-learning, research, innovation, Placements, and results. AITM has been known for its Academic credentials coupled with holistic growth in all directions. The new generation of competent minds must imbibe knowledge and practically they should comprehend the art of balancing brilliant technical, managerial communication, and interpersonal skills, nest. The Institute has achieved a series of milestones with the help of brilliant students, dedicated staff, and encouraging Management. We promise a wonderful experience of rich Academic and Excellent facilities coupled with professional practices and blended with an affectionate concern for our Students.

Message from: HOD

Prof. Sagar Birje

Welcome to the Department of Artificial Intelligence and Data Science. AI and DS is the skill of the century and has had a massive impact on the society. AI and DS have seen enormous progress and significant breakthrough innovations in practically every field over the last decade. Keeping this in mind, the AI and DS Department was established in the year 2020 with the aim of providing leadership in the field of AI & DS Engineering with an intake of 60 students. The Department is focused on delivering innovative and high-quality technical education in the field of Artificial Intelligence and Data Science.

❖ Institute Vision and Misssion

Vision:

To become a premier institute committed to academic excellence and global competence for the holistic development of students.

Mission:

M1: Develop competent human resources, adopt outcome-based education (OBE) and Implement cognitive assessment of students.

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❖ Department Vision and Mission

Vision:

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M2: Develop an inclusive and holistic ambiance that bolsters problem solving, cognitive abilities and critical thinking.

M3: Enable students to develop trust worthiness, team spirit, understanding law-of-the-land, social behavior to be a global stake holder

several students were honored with awards and prizes for their outstanding contributions.

Department Activities.

AITM's Artificial Intelligence and Data Science Department Students Spreads AI Awareness in Government Schools

Students from the Artificial Intelligence and Data Science (AIDS) Department of Angadi Institute of Technology and Management (AITM), Belagavi, conducted AI awareness programs in government schools across Karnataka. The initiative aimed to introduce school students to the fundamentals of Artificial Intelligence and its real-world applications. Through engaging sessions and hands-on activities, the students simplified complex concepts and encouraged interest in technology among young minds. The program reflects AITM's commitment to education, innovation, and social responsibility.