

DEPARTMENT OF FOOD ENGINEERING AND TECHNOLOGY

Vision

Establishing a center of excellence to provide demand-driven, value-based and quality technical education to make India a developed country through socio-economic transformation

Mission Statements

- **M1:** Creating an atmosphere to deliver fundamental knowledge in Food Engineering and Technology for the students to fulfil the need of all segments of society and the environment.
- **M2:** Starting from the classroom teaching and simultaneously creating a multi-disciplinary platform capable of conducting research, technology development, and solving industrial challenges.
- **M3:** Providing leadership and training personnel for the benefit of the industry and society complying with overall activity towards the economic growth of the country.

Program Educational Objectives (PEOs) for Food Engineering and Technology

- **PEO1: Successful Career:** Graduates from the programme will have successful careers in food and allied industries at various levels of management
- **PEO2: Higher Study:** Graduates from the programme will pursue higher study related to food engineering and technology and allied disciplines in premier institutions across the world and make a career in academics or research
- **PEO3: Multi-disciplinary Skills:** Graduates from the programme will work in a multi-disciplinary environment in the domain of food technology.

Consistency with PEOs with Department Mission

Mission Statements	PEO1: Successful Career	PEO2: Higher Study	PEO3: Multi-disciplinary Skills
M1: Creating an atmosphere to deliver fundamental knowledge in Food Engineering and Technology for the students to fulfil the need of all segments of society and the environment.	2	2	3
M2: Starting from the classroom teaching and simultaneously creating a multi-disciplinary platform capable of conducting research, technology development, and solving industrial challenges.	3	2	3
M3: Providing leadership and training personnel for the benefit of the industry and society complying with overall activity towards the economic growth of the country.	3	3	3

3, 2, 1 refers strong, medium, and weak correlations, respectively

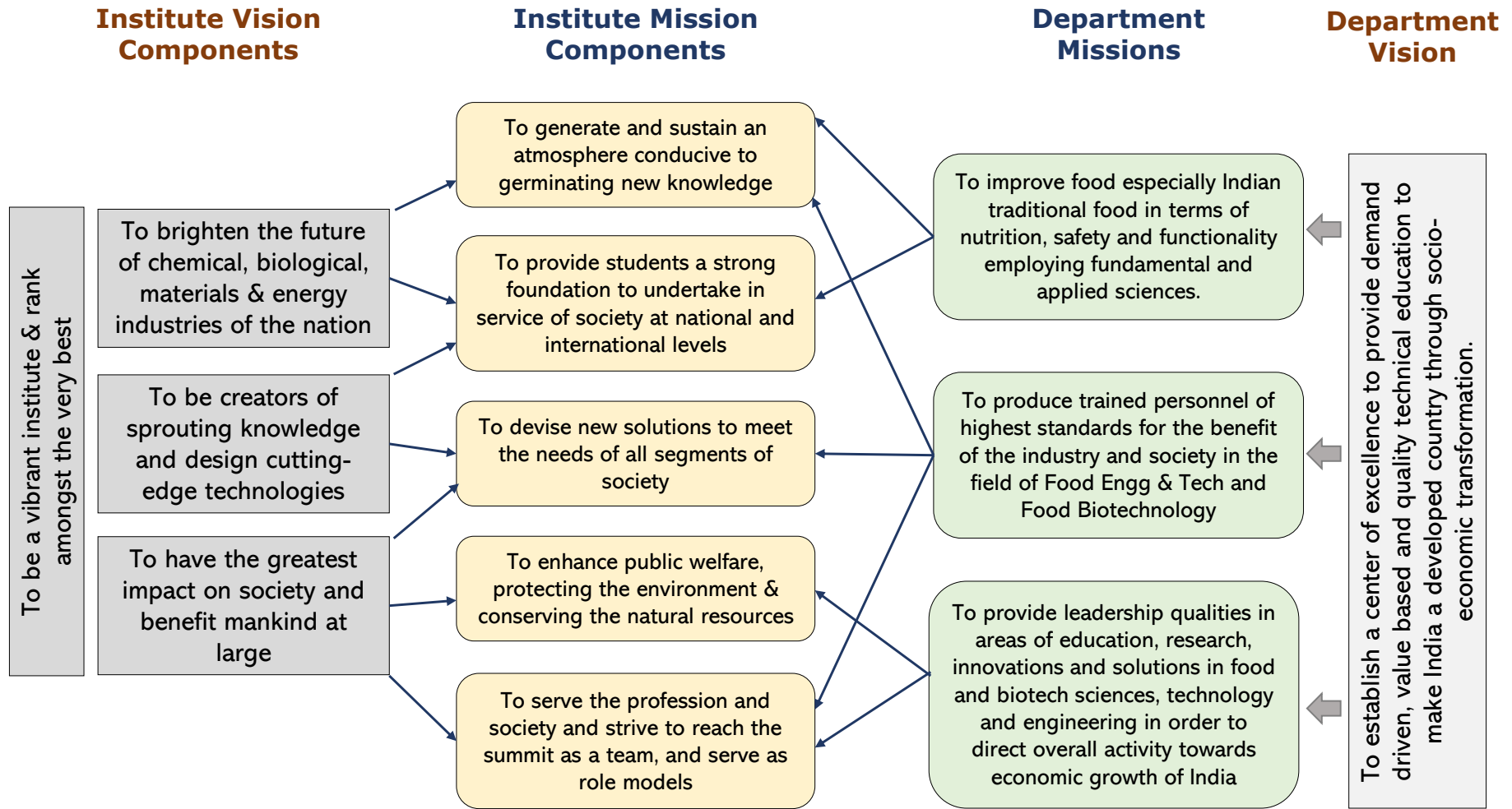


Fig 1. Consistency between Institute and Department Vision and Missions

Program Outcomes (POs) for B. Tech. (Food Engg. & Tech.)

PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
PSO1	Food Analysis: Able to apply analytical techniques for food safety & quality assurance
PSO2	Innovations in Food Products and Process Development: Able to translate emerging science in various commodity products and newer technologies.