GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT (GITAM)

(Deemed to be University)
VISAKHAPATNAM * HYDERABAD * BENGALURU

Accredited by NAAC with A⁺⁺ Grade

GITAM School of Science



CURRICULUM AND SYLLABUS

4 Year Undergraduate Programme
UMFST05: B.Sc. Food Science & Technology

w.e.f. 2025-26 admitted batch (Updated on July 2025)

Academic Regulations

Applicable for the Undergraduate Programmes in the Schools of Business (except B.Com.), Humanities & Social Sciences and Science (except B.Sc.(CSCS), B.Optometry, B.C.A)

https://www.gitam.edu/academics/academic-regulations

GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Vision

GITAM will be an exceptional knowledge-driven institution advancing on a culture of honesty and compassion to make a difference to the world.

Mission

- Build a dynamic application-oriented education ecosystem immersed in holistic development.
- Nurture valuable futures with global perspectives for our students by helping them find their ikigai.
- Drive impactful integrated research programmes to generate new knowledge, guided by integrity, collaboration, and entrepreneurial spirit.
- Permeate a culture of kindness within GITAM, fostering passionate contributors.

Quality Policy

To achieve global standards and excellence in teaching, research, and consultancy by creating an environment in which the faculty and students share a passion for creating, sharing and applying knowledge to continuously improve the quality of education.

GITAM School of Science

Vision

Nurturing a high-quality Science Education and Research by providing a best learning ecosystem to create world class academicians and researchers.

Mission

- To teach the most renewed curriculum that lay the foundation for students to start exciting careers in academia, research, and industry.
- To foster an environment of healthy curiosity, an innovative mindset, and a strong desire to contribute to the science world.
- To advance our understandings of the natural processes of Physical, Chemical and Biological systems for a better habitable world.
- To inculcate a strong sense of empathy, integrity, and trust in the GITAM Fraternity with a strong commitment towards society and environment.

VISION AND MISSION OF THE DEPARTMENT

VISION

Fostering a seamless and innovative interdisciplinary research-driven academic ecosystem to address complex biological challenges, by reinforcing critical thinking, creativity, and collaboration

MISSION

- Holistic development of the students through interdisciplinary research and teaching programs with focus on contemporary problems in health, food, disease and environment
- Encourage students to embrace their curiosity to understand the natural processes and boost entrepreneurship for sustainable development
- To emerge as centre of excellence by addressing global challenges in personalized food and medicine, sustainable agriculture and environment through cutting-edge and collaborative research
- Nurture a culture of honesty, kindness, empathy and trust among the Life Sciences fraternity with a strong commitment towards all life on earth and its environment

Programme Educational Objectives (PEOs)

- **PEO 1:** To mould the students for successful careers in the industry and institutions of food technology.
- **PEO 2:** To make students competent in Food Science, allied areas and train them in entrepreneurship development.
- **PEO 3:** To motivate young food technologists through professional, ethical development and research.
- **PEO 4:** To introduce the students to societal needs and global food security challenges.

PEO Articulation

| | PEO1 | PEO2 | PEO3 | PEO4 |
|----|------|------|------|------|
| M1 | 3 | 3 | 3 | 3 |
| M2 | 3 | 3 | 3 | 3 |
| М3 | 2 | 3 | 3 | 2 |
| M4 | 1 | 2 | 3 | 3 |

^{3 -} High Correlation, 2 - Medium Correlation, 1 - Low Correlation

UMFST05: B.Sc. Food Science & Technology

Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

At the end of the Programme the students would be able to demonstrate:

PO1: Complex problem-solving:

 To solve different kinds of problems in familiar and non-familiar contexts and apply the learning to real-life situations.

PO2: Critical thinking:

- Apply analytic thought to a body of knowledge, including the analysis and evaluation
 of policies, and practices, as well as evidence, arguments, claims, beliefs, and the
 reliability and relevance of evidence.
- Identify relevant assumptions or implications and formulate coherent arguments.
- Identify logical flaws and holes in the arguments of others.
- Analyze and synthesize data from a variety of sources and draw valid conclusions and support them with evidence and examples.

PO3: Creativity:

- Create, perform, or think in different and diverse ways about the same objects or scenarios.
- Deal with problems and situations that do not have simple solutions.
- Innovate and perform tasks in a better manner.
- View a problem or a situation from multiple perspectives.
- Think 'out of the box' and generate solutions to complex problems in unfamiliar contexts.
- Adopt innovative, imaginative, lateral thinking, interpersonal skills and emotional intelligence.

PO4: Communication Skills:

- Listen carefully, read texts and research papers analytically and present complex information in a clear and concise manner to different groups / audiences.
- Express thoughts and ideas effectively in writing and orally and communicate with others using appropriate media.
- Confidently share views and express herself / himself.
- Construct logical arguments using correct technical language related to a field of learning, work/vocation, or an area of professional practice, and convey ideas, thoughts, and arguments using language that is respectful and sensitive to gender and other minority groups.

PO5: Analytical reasoning/thinking:

- Evaluate the reliability and relevance of evidence.
- Identify logical flaws in the arguments of others.
- Analyze and synthesize data from a variety of sources-draw valid conclusions and support them with evidence and examples, and address opposing viewpoints.

PO6: Research-related skills:

- A keen sense of observation, inquiry, and capability for asking relevant/ appropriate questions.
- The ability to problematize, synthesize, and articulate issues and design research proposals.
- The ability to define problems, formulate appropriate and relevant research questions, formulate hypotheses, test hypotheses using quantitative and qualitative data, establish hypotheses, make inferences based on the analysis and interpretation of data, and predict cause-and-effect relationships.
- The capacity to develop appropriate methodology and tools for data collection.

- The appropriate use of statistical and other analytical tools and techniques.
- The ability to plan, execute and report the results of an experiment or investigation, the ability to acquire the understanding of basic research ethics and skills in practicing/doing ethics in the field/ in personal research work, regardless of the funding authority or field of study.

PO7: Coordinating/collaborating with others:

- Work effectively and respectfully with diverse teams.
- Facilitate cooperative or coordinated effort on the part of a group.
- Act together as a group or a team in the interests of a common cause and work efficiently as a member of a team.

PO8: Leadership readiness/qualities:

- Mapping out the tasks of a team or an organization and setting direction.
- Formulating an inspiring vision and building a team that can help achieve the vision, motivating and inspiring team members to engage with that vision.
- Using management skills to guide people to the right destination.

PO9: Learning how to learn skills:

- Acquire new knowledge and skills, including 'learning how to learn skills, that are
 necessary for pursuing learning activities throughout life, through self-paced and
 self-directed learning aimed at personal development, meeting economic, social, and
 cultural objectives, and adapting to changing trades and demands of the workplace,
 including adapting to the changes in work processes in the context of the fourth
 industrial revolution, through knowledge / skill development / re-skilling.
- Work independently; identify appropriate resources required for further learning.
- Acquire organizational skills and time management to set self-defined goals and targets with timelines.
- Inculcate a healthy attitude to be a lifelong learner.

PO10: Digital and technological skills:

- Use ICT in a variety of learning and work situations.
- Access, evaluate, and use a variety of relevant information sources, and use appropriate software for analysis of data.

PO11: Multicultural competence and inclusive spirit:

- The acquisition of knowledge of the values and beliefs of multiple cultures and a global perspective to honour diversity.
- Capability to effectively engage in a multicultural group/society and interact respectfully with diverse groups.
- Capability to lead a diverse team to accomplish common group tasks and goals.
- Gender sensitivity and adopting a gender-neutral approach, as also empathy for the less advantaged and the differently-abled including those with learning disabilities.

PO12: Value inculcation:

- Embrace and practice constitutional, humanistic, ethical, and moral values in life, including universal human values of truth, righteous conduct, peace, love, nonviolence, scientific temper, citizenship values.
- Practice responsible global citizenship required for responding to contemporary global challenges, enabling learners to become aware of and understand global issues and to become active promoters of more peaceful, tolerant, inclusive, secure, and sustainable societies.
- Formulate a position/argument about an ethical issue from multiple perspectives.
- Identify ethical issues related to work, and follow ethical practices, including avoiding unethical behavior such as fabrication, falsification or misrepresentation of data, or committing plagiarism, and adhering to intellectual property rights.
- Recognize environmental and sustainability issues and participate in actions to promote sustainable development.
- Adopt an objective, unbiased, and truthful actions in all aspects of work.
- Instill integrity and identify ethical issues related to work, and follow ethical practices.

PO13: Autonomy, responsibility, and accountability:

- Apply knowledge, understanding, and/or skills with an appropriate degree of independence relevant to the level of the qualification.
- Work independently, identify appropriate resources required for a project, and manage a project through to completion.
- Exercise responsibility and demonstrate accountability in applying knowledge and/or skills in work and/or learning contexts appropriate for the level of the qualification, including ensuring safety and security at workplaces.

PO14: Environmental awareness and action:

- Ability to apply the knowledge, skills, attitudes, and values required to take appropriate actions for.
- Mitigating the effects of environmental degradation, climate change, and pollution.
- Effective waste management, conservation of biological diversity, management of biological resources and biodiversity, forest and wildlife conservation, and sustainable development and living.

PO15: Community engagement and service:

• To participate in community-engaged services/ activities for promoting the wellbeing of society.

PO16: Empathy:

- To identify with or understand the perspective, experiences, or points of view of another individual or group, and to identify and understand other people's emotions.
- **PSO1:** Understand food components, their interactions, and their role in food processing.
- **PSO2:** Apply the knowledge of various food analytical methods to quantify the desired compounds.
- **PSO3:** Will appreciate the importance of microbiological techniques in food production and food safety.
- **PSO4:** Will be able to design food plant, and understand the principles of instruments required for processing and preservation.

| GITAM (Deemed to be University) | | GITAM School of Science |
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Minimum Credit Requirements to Award Degree Under Each Category

| | | | Minimum Credit Requirement | | | | | | | | |
|-------|--|-----------------|----------------------------|---------------------------|---------|---------------------------------------|---------------|-------|--|--|--|
| S.No. | Course Category and Category Code | 3 Ye Undergr | | 4 Ye Undergra (Hons | duate | 4 Ye Undergra (Hons with Res | iduate s.) | | | | |
| | | | Credits | (%) | Credits | (%) | Credits | (%) | | | |
| 1 | Multidisciplinary Core Courses | MDC | 12 | 9.83 | 12 | 7.41 | 12 | 7.41 | | | |
| 2 | Major Core | MC | 40 | 32.79 | 72 | 44.44 | 60 | 37.03 | | | |
| 3 | Major Electives | ME | 20 | 16.39 | 20 | 12.35 | 20 | 12.35 | | | |
| 4 | Minor | MI | 24 | 19.67 | 32 | 19.75 | 32 | 19.75 | | | |
| 5 | Internship | INT | 04 | 3.28 | 04 | 2.47 | 04 | 2.47 | | | |
| 6 | Ability Enhancement Courses – University Core | UC | 10 | 8.20 | 10 | 6.17 | 10 | 6.17 | | | |
| 7 | Skill Enhancement Courses – University Core | UC | 08 | 6.56 | 08 | 4.94 | 08 | 4.94 | | | |
| 8 | Value Added Courses – University Core | UC | 04 | 3.28 | 04 | 2.47 | 04 | 2.47 | | | |
| 9 | Research Project / Dissertation | PROJ | | 00 | | 00 | 12 | 7.41 | | | |
| | Total | | 122 | 100 | 162 | 100 | 162 | 100 | | | |

Multi-disciplinary Core Courses (MDC): 12 credits

| Course Code | Level | Course Title | L | T | Р | S | J | С |
|-------------|--------|---|------|-------|----|---|---|----|
| | | Basket - Business (Minimum 4 credits) | | | | | | |
| ODHR1011 | 100 | Principles of Management* | 2 | 0 | 0 | 0 | 0 | 2 |
| IENT1061 | 100 | Introduction to Business Environment | 2 | 0 | 0 | 0 | 0 | 2 |
| INFS1011 | 100 | <u>Technology and Business</u> | 2 | 0 | 0 | 0 | 0 | 2 |
| STGM1011 | 100 | Introduction to Business Organization | 2 | 0 | 0 | 0 | 0 | 2 |
| | Basket | - Humanities and Social Sciences (Minimum | 4 Cr | edits | s) | | | |
| SOCY1071 | 100 | Introduction to the Humanities | 2 | 0 | 0 | 0 | 0 | 2 |
| SOCY1081 | 100 | Foundations of Social Sciences | 2 | 0 | 0 | 0 | 0 | 2 |
| MSTU1081 | 100 | Media and Communication (Offered in Hyderabad Campus alone) | 2 | 0 | 0 | 0 | 0 | 2 |
| FPEA1221 | 100 | Performing Arts in Indian Cinema | 2 | 0 | 0 | 0 | 0 | 2 |
| LANG1261 | 100 | The Art of Storytelling | 2 | 0 | 0 | 0 | 0 | 2 |
| | | Basket - Science (Minimum 4 Credits) | | | | | | |
| PHYS1371 | 100 | Introduction to Astronomy and Astrophysics | 2 | 0 | 0 | 0 | 0 | 2 |
| LFSC1001 | 100 | Essentials of Life Processes | 2 | 0 | 0 | 0 | 0 | 2 |
| LFSC1011 | 100 | Fundamentals of Natural and Chemical Sciences | 2 | 0 | 0 | 0 | 0 | 2 |
| MATH1371 | 100 | Conceptual Mathematics | 2 | 0 | 0 | 0 | 0 | 2 |
| CSCI1341 | 100 | <u>Fundamentals of Computer Science</u> | 2 | 0 | 0 | 0 | 0 | 2 |
| | | Total Credits | | | | | | 12 |

^{*}Mandatory Course in Basket

Major Core (MC): 40 credits

| Course Code | Level | Course Title | L | T | P | S | J | С |
|-------------|-------|---|---|---|---|---|---|----|
| MFST1091 | 100 | Fundamentals of Food Technology | 3 | 0 | 0 | 0 | 0 | 3 |
| MFST2661 | 200 | <u>Technology of Plantation crops</u> | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST2671 | 200 | Principles of Food Science | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST2481 | 200 | Fundamentals of Food Engineering | 3 | 0 | 0 | 0 | 0 | 3 |
| MFST2611 | 200 | Biochemical and Biophysical Techniques | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST3581 | 300 | Food Biochemistry | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST3271 | 300 | Entrepreneurship, Bioethics and Biosafety | 3 | 0 | 0 | 0 | 0 | 3 |
| MFST3591 | 300 | Food Microbiology | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST3601 | 300 | Food Processing and Preservation Technology | 3 | 0 | 2 | 0 | 0 | 4 |
| BCBI1101 | 100 | <u>Cell Biology</u> | 3 | 0 | 0 | 0 | 0 | 3 |
| BTSC2251 | 200 | Molecular Biology | 3 | 0 | 2 | 0 | 0 | 4 |
| | | Total Credits | | | | | | 40 |

Major Electives (ME): 20 credits

Minimum number of credits to be earned: 20.

| Course Code | Level | Course Title | L | Т | Р | S | J | С |
|-------------|-------|---------------------------------------|---|---|---|---|---|---|
| MFST2381 | 200 | Functional Foods and Nutraceuticals | 3 | 0 | 0 | 0 | 0 | 3 |
| MFST2491 | 200 | Beverage Technology | 3 | 0 | 0 | 0 | 0 | 3 |
| MFST2681 | 200 | Food and Nutrition | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST2691 | 200 | Animal Food Technology | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST3311 | 300 | Food Design and Formulation | 3 | 0 | 0 | 0 | 0 | 3 |
| MFST3611 | 300 | Food Packaging Technology | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST3621 | 300 | Food Policy and Regulation | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST3631 | 300 | Food Safety and Quality | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST3401 | 300 | Genetic Engineering and Biotechnology | 3 | 0 | 0 | 0 | 0 | 3 |
| MFST3411 | 300 | Genetics and Molecular Biology | 3 | 0 | 0 | 0 | 0 | 3 |
| MFST3451 | 300 | Organic farming | 3 | 0 | 0 | 0 | 0 | 3 |
| MFST3641 | 300 | <u>Technology of Spices</u> | 3 | 0 | 2 | 0 | 0 | 4 |

Internship (INT): 4 credits

| Course code | Level | Course Title | L | T | Р | S | J | С |
|-------------|-------|--------------|---|---|---|---|---|---|
| MFST3444 | 300 | Internship | 0 | 0 | 0 | 0 | 8 | 4 |

University Core (UC): 22 credits

| Course code | Level | Course Title | L | Т | P | S | J | С | | | | |
|-------------|---------------------|--|------|---|---|---|---|---|--|--|--|--|
| | | Ability Enhancement Courses | | | | | | | | | | |
| LANG1042 | 100 | Academic Writing | 2 | 0 | 0 | 0 | 0 | 2 | | | | |
| LANG1201 | 100 | <u>Critical Thinking</u> | 2 | 0 | 0 | 0 | 0 | 2 | | | | |
| IENT1051 | 100 | Fundamentals of Entrepreneurship | 2 | 0 | 0 | 0 | 0 | 2 | | | | |
| LANG1242 | 100 | Communicative English - I | 0 | 0 | 4 | 0 | 0 | 2 | | | | |
| LANG1252 | 100 | Communicative English - II | 0 | 0 | 4 | 0 | 0 | 2 | | | | |
| | | Skill Enhancement Courses | | | | | | | | | | |
| CSCI1302 | 100 | Introduction to Programming | 0 | 0 | 4 | 0 | 0 | 2 | | | | |
| CSCI1312 | 100 | Introduction to Data Science | 0 | 0 | 4 | 0 | 0 | 2 | | | | |
| GCGC1041 | 100 | Introduction to Core Competencies | 0 | 0 | 2 | 0 | 0 | 1 | | | | |
| GCGC1051 | 100 | Professional Communication and Analytical Skills | 0 | 0 | 2 | 0 | 0 | 1 | | | | |
| | | Development | | | | | _ | | | | | |
| GCGC1061 | 100 | Applied Communication and Aptitude Skills | 0 | 0 | 2 | 0 | 0 | 1 | | | | |
| GCGC1071 | 100 | <u>Preparation for Campus Placements</u> | 0 | 0 | 2 | 0 | 0 | 1 | | | | |
| | Value Added Courses | | | | | | | | | | | |
| ENVS1003 | 100 | Environmental Studies * | 3 | 0 | 0 | 0 | 0 | 3 | | | | |
| POLS1051 | 100 | The Indian Constitution * | 1 | 0 | 0 | 0 | 0 | 1 | | | | |
| | | Pass / Fail Courses (Mandatory) | | | | | | | | | | |
| FINA1081 | 100 | Personal Financial Planning * | 1 | 0 | 0 | 0 | 0 | 1 | | | | |
| PHPY1011 | 100 | Gandhi and the Contemporary World * / UHV | 1 | 0 | 0 | 0 | 0 | 1 | | | | |
| | P | ass / Fail Courses (Any one course to be cho | sen) | | | | | | | | | |
| DOSP1181 | 100 | <u>Yogasana</u> | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| MFST1002 | 100 | Health and Wellbeing * | 0 | 0 | 2 | 0 | 0 | 1 | | | | |
| DOSL1081 | 100 | Student Life Activities (Participant) | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSL1091 | 100 | Student Life Activities (Organizer) | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSL1101 | 100 | Student Life Activities (Competitor) | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSL1111 | 100 | Foundations of Student (Leadership) | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSL1042 | 100 | Community Services – Volunteer | 0 | 0 | 2 | 0 | 0 | 1 | | | | |
| DOSL1052 | 100 | Community Services – Mobilizer | 0 | 0 | 2 | 0 | 0 | 1 | | | | |
| DOSP1003 | 100 | Badminton | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSP1033 | 100 | Football | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSP1043 | 100 | Volleyball | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSP1053 | 100 | Kabaddi | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSP1073 | 100 | Table Tennis | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSP1083 | 100 | Handball | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSP1093 | 100 | Basketball | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSP1113 | 100 | Throw ball | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSP1142 | 100 | Cricket | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSP1132 | 100 | Functional Fitness | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DOSP1171 | 100 | Martial Arts/Self Defence | 0 | 0 | 0 | 2 | 0 | 1 | | | | |
| DODI 11/1 | 100 | r randar Array Serr Deterrice | | | | | | _ | | | | |

^{*} Massive Open Online Course (MOOC)

Students pursuing 4th year of the Programme need to choose the courses from the respective basket of Honours or Honours with Research

Honours Courses

Minimum number of credits to be earned: 32.

| Course Code | Level | Course Title | L | T | Р | S | J | C |
|--------------------|-------|-------------------------------------|---|---|---|---|---|---|
| MFST4651 | 400 | Fermentation Technology | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST4661 | 400 | Instrumentation for Food Analysis | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST4671 | 400 | Dairy Technology | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST4681 | 400 | Waste Management of Food Industries | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST4691 | 400 | Bakery and Confectionary | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST4701 | 400 | Diet and Lifestyle | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST4711 | 400 | Food Sensory Evaluation | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST4721 | 400 | Applied Physiology | 3 | 0 | 2 | 0 | 0 | 4 |

Honours with Research Courses

Minimum number of credits to be earned is 32 out of which 12 credits must be earned through Research Project / Dissertation

| Course Code | Level | Course Title | L | Т | Р | S | J | С |
|--------------------|-----------|---|---|---|---|---|----|---|
| MFST4651 | 400 | Fermentation Technology | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST4661 | 400 | <u>Instrumentation for Food Analysis</u> | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST4671 | 400 | Dairy Technology | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST4711 | 400 | Food Sensory Evaluation | 3 | 0 | 2 | 0 | 0 | 4 |
| MFST4721 | 400 | Applied Physiology | 3 | 0 | 2 | 0 | 0 | 4 |
| Research Proj | ect / Dis | sertation (PROJ) | | | | | | |
| MFST4888 | 400 | Dissertation - I (Review of Literature & Research Proposal) | 0 | 0 | 0 | 0 | 8 | 4 |
| MFST4999 | 400 | Dissertation – II | 0 | 0 | 0 | 0 | 16 | 8 |

Minor Courses

One Minor is to be chosen from the following list of Minors.

The minimum number of credits to be earned up to 3 years of the programme is 24.

The minimum number of credits to be earned for the 4 year programme is 32.

Minors List: Click here



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