

**DEPARTMENT OF FOOD TECHNOLOGY**  
**HALDIA INSTITUTE OF TECHNOLOGY**

**Memorandum of Understanding (MoU) (s) signed by the Department till date**

- Department of Food Technology, Haldia Institute of Technology has signed an agreement with **Food Safety & Standards Authority of India (FSSAI)** in order to engage with **Higher Education Institutes** through the “*Triple E*” *Strategy* on 6<sup>th</sup> July 2021 and has undergone primary agreement during January 13, 2020.
- Department of Food Technology, Haldia Institute of Technology has signed a Memorandum of Understanding (MOU) with **ALS Testing Services India Pvt. Ltd. (A Part of ALS Global)** on Skill Development, Internship, Outcome based Trainings, Testing and related services November 15, 2021.
- Department of Food Technology, Haldia Institute of Technology has signed a Memorandum of Understanding (MOU) with **Central Institute of Petrochemicals Engineering and Technology (CIPET)**, Haldia for Skill Development, Internship, Outcome Based Trainings, Testing and related services on August 24, 2021.
- Department of Food Technology, Haldia Institute of Technology has signed a Memorandum of Understanding (MOU) with **Keventer Agro Limited**, Kolkata for Skill Development, Internship, Outcome Based Trainings and related services on August 25, 2021.
- Department of Food Technology, Haldia Institute of Technology has signed a Memorandum of Understanding (MOU) with **N.D. International** for Skill Development, Internship, Outcome Based Trainings, Testing and related services on August 25, 2021.
- Department of Food Technology, Haldia Institute of Technology has signed a Memorandum of Understanding (MOU) with **DNV GL Business Assurance India Pvt. Ltd.** for Skill Development, Internship, Outcome Based Trainings, and related services on September 27, 2021.
- Department of Food Technology, Haldia Institute of Technology has signed a Memorandum of Understanding (MOU) with **Indian Institute of Packaging (IIP)**, Kolkata for Skill Development, Internship, Outcome Based Trainings, Testing and related services on August 28, 2021.

## **B2.4. Faculty as participants in Faculty Development/training activities/STTPs**

<b>Academic Year</b>	<b>Number of FDPs/Training Activities/ STTPs</b>
2021-22	44
2020-21	13
2019-20	16



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**Academic Year 2021-22**

1. Dr. Sumita Das successfully completed Twenty four (24) hours virtual Indian Institute of Packaging approved Faculty Development Programme on “Emerging Trends & Innovative Food Packaging Technologies in Food Industrial Practices” during June 19 – July 11, 2021.
2. Dr. Sumita Das successfully completed 1 & ½ week NPTEL - AICTE Faculty Development Program on “Thermal Operations in Food Process Engineering: Theory and Applications” conducted by Indian Institute of Technology, Kharagpur during July - October, 2021.
3. Dr. Sumita Das successfully completed Thirty (30) hours virtual Haldia Institute of Technology & Ankur Biochem Pvt. Ltd. approved Faculty Development Programme on “Scope & Application of Fermentation Technology in Food, Biochemical & Allied Industries” during July 17 – August 15, 2021.
4. Dr. Sumita Das participated in IP Awareness/ Training program organized by Intellectual Property Office, India on Dec 22, 2021.
5. Dr. Sumita Das successfully completed 5 days Faculty Development Program on “Biovalorization: Trend and Prospects of Value Added Products” conducted Department of Biotechnology, National Institute of Technology, Andhra Pradesh during January 3 – 7, 2022.
6. Dr. Sumita Das successfully completed two-week certificate course on Data Analysis using SPSS Statistics and SPSS AMOS jointly conducted by SPSS & Calcutta Business School (AICTE Approved) during March 14 – 27, 2022.
7. Dr. Sumita Das successfully completed One day awareness workshop on “Food Safety Training and Certification (FoSTaC)” conducted by ITCfSAN and organized by Department of Food Technology, Haldia Institute of Technology, Haldia on June 14, 2022.
8. Mr. Gourab Chatterjee successfully completed twenty four (24) hours virtual Indian Institute of Packaging approved Faculty Development Programme on “Emerging Trends & Innovative Food Packaging Technologies in Food Industrial Practices” during June 19 – July 11, 2021.
9. Mr. Gourab Chatterjee successfully completed Thirty (30) hours virtual Haldia Institute of Technology & Ankur Biochem Pvt. Ltd. approved Faculty Development Programme on “Scope & Application of Fermentation Technology in Food, Biochemical & Allied Industries” during July 17 – August 15, 2021.
10. Mr. Gourab Chatterjee successfully completed 1 & ½ week NPTEL - AICTE Faculty Development Program on “Thermal Operations in Food Process Engineering: Theory and Applications” conducted by Indian Institute of Technology, Kharagpur during July - October, 2021.

11. Mr. Gourab Chatterjee successfully completed NPTEL certified one and half Week Faculty Development Program Course on “Novel Technologies for Food Processing and Shelf-Life Extension” during the period of January – April, 2022.
12. Mr. Gourab Chatterjee successfully completed two-week certificate course on Data Analysis using SPSS Statistics and SPSS AMOS jointly conducted by SPSS & Calcutta Business School (AICTE Approved) during March 14 – 27, 2022.
13. Mr. Gourab Chatterjee successfully completed one week online FDP on Universal Human Values in Engineering Domain organized by department of Mechanical Engineering, HIT in association with IQAC, HIT during May 4 – 8, 2022.
14. Mr. Gourab Chatterjee successfully completed FDP on Food Testing Analysis and Quality Evaluation: Opportunities and Challenges organised by ALS Testing Services India Pvt. Ltd. in collaboration with Department of Food Technology, Haldia Institute of Technology during 18<sup>th</sup> – 24<sup>th</sup> July, 2021.
15. Ms. Tanushree Ghosh successfully completed 5 days online Faculty Development Programme on “Research Applications in Artificial Intelligence and Machine Learning” organized by Department of Computer Science and Engineering, Haldia Institute of Technology, Haldia, West Bengal during September 6 – 10, 2021.
16. Ms. Tanushree Ghosh participated five days short term training programme through ICT mode on “Polymer Composite and Nanocomposites” organized by National Institute of Technical Teachers’ Training and Research (NITTTR), Kolkata W.B, during 8th – 12th Nov, 2021.
17. Ms. Tanushree Ghosh successfully completed 5 days AICTE Training and Learning (ATAL) Academy Online Elementary Faculty Development Programme on “ Carbon Capture, Utilization and Storage: Opportunities and Challenges” organized by Govt. Engineering College, Koozhikode during December 13 – 17, 2021.
18. Ms. Tanushree Ghosh participated online five days Workshop & Technical Quiz on “Industrial Process Safety Management (PSM 2021)”, organized by Department of Chemical Engineering, Haldia Institute of Technology in association with HRC Student Chapter, IICheE and Internal Quality Assurance Cell(IQAC), HIT, Haldia,W.B, during 13th – 17h Dec,2021.
19. Ms. Tanushree Ghosh participated in five days online training programme on “Renewable Energy Applications” organized by National Institute of Technical Teachers’ Training and Research (NITTTR), Chennai, during 28th Feb – 4th March, 2022.
20. Ms. Tanushree Ghosh participated 4 weeks online Internship Programme on “Application of IOT in Chemical Process Industries (IOTCPI- 2021)”, organized by Department of Chemical Engineering, Haldia Institute of Technology in association with HRC Student Chapter, IICheE and Department of Computer Applications and Department of Machine Learning , HIT, Haldia,W.B, during 2nd April- 2nd May, 2022.
21. Ms. Tanushree Ghosh participated one week online Faculty Development Programme on “Universal Human Values in Engineering Domain”, organized by Department of Mechanical Engineering, Haldia Institute of Technology in association with IQAC,HIT, Haldia, West Bengal, during 4th – 8th May,2022.
22. Mr. Ranjay Kr. Thakur successfully completed 1 & ½ week NPTEL – AICTE Faculty Development Program on “Thermal Operations in Food Process Engineering: Theory and

Applications” conducted by Indian Institute of Technology, Kharagpur during July – October, 2021.

23. Mr. Ranjay Kr. Thakur successfully completed One day awareness workshop on “Food Safety Training and Certification (FoSTaC)” conducted by DNVGL Business Assurance India Pvt. Ltd. And organized by Department of Food Technology, Haldia Institute of Technology, Haldia on October 10, 2021.
24. Mr. Ranjay Kr. Thakur participated in IP Awareness/ Training program organized by Intellectual Property Office, India on December 22, 2021.
25. Mr. Ranjay Kr. Thakur successfully completed 5 days Faculty Development Program on “Biovalorization: Trend and Prospects of Value Added Products” conducted Department of Biotechnology, National Institute of Technology, Andhra Pradesh during January 3 – 7, 2022.
26. Mr. Ranjay Kr. Thakur successfully completed 1 & ½ week NPTEL – AICTE Faculty Development Program on “Environmental Chemistry and Microbiology” conducted by Indian Institute of Technology, Kharagpur during January- April, 2022.
27. Mr. Ranjay Kr. Thakur successfully completed One week Faculty & Staff Development Program on “Development of Emotional Well-being and Overall Health” held on 7th to 11th March 2022, organized by the Department of Biotechnology in association with Internal Quality Assurance Cell (IQAC), Haldia Institute of Technology, Haldia, West Bengal, India.
28. Mr. Ranjay Kr. Thakur successfully completed one week online FDP on Universal Human Values in Engineering Domain organized by department of Mechanical Engineering, HIT in association with IQAC, HIT during May 4 – 8, 2022.
29. Ms. Swati Ray successfully completed Thirty (30) hours virtual Haldia Institute of Technology & Ankur Biochem Pvt. Ltd. Approved Faculty Development Programme on “Scope & Application of Fermentation Technology in Food, Biochemical & Allied Industries” during July 17 – August 15, 2021.
30. Ms. Swati Ray participated in FSQM organized by Department of Food Technology in collaboration with DNV GI Pvt. Ltd.
31. Ms. Swati Ray successfully completed one week online FDP on Universal Human Values in Engineering Domain organized by department of Mechanical Engineering, HIT in association with IQAC, HIT during May 4 – 8, 2022.
32. Mr. Aniruddha De participated in 5-day online Faculty development programme on “Inculcating Universal Human Values in Technical Education”, organized by All India Council for Technical Education (AICTE), during 3 – 7th January, 2022.
33. Mr. Aniruddha De successfully completed NPTEL certified one Week Faculty Development Program Course on “Instrumentation and Process Control in Food Industry” during the period of January – March, 2022.
34. Mr. Aniruddha De successfully completed NPTEL certified one and half Week Faculty Development Program Course on “Novel Technologies for Food Processing and Shelf-Life Extension” during the period of January – April, 2022.
35. Mr. Aniruddha De successfully completed one week online FDP on Universal Human Values in Engineering Domain organized by department of Mechanical Engineering, HIT in association with IQAC, HIT during May 4 – 8, 2022.

36. Mr. Amit Kumar Mukherjee successfully completed NPTEL certified one and half Week Faculty Development Program Course on “Novel Technologies for Food Processing and Shelf-Life Extension” during the period of January – April, 2022.
37. Dr. Indira Dey Paul successfully completed One day awareness workshop on “Food Safety Training and Certification (FoSTaC)” conducted by ITCfSAN and organized by Department of Food Technology, Haldia Institute of Technology, Haldia on June 14, 2022.
38. Dr. Indira Dey Paul successfully completed (silver medal) NPTEL certified one and half Week Faculty Development Program Course on “Novel Technologies for Food Processing and Shelf-Life Extension” during the period of January – April, 2022.
39. Mr. Subhankar Mishra successfully completed twenty four (24) hours virtual Indian Institute of Packaging approved Faculty Development Programme on “Emerging Trends & Innovative Food Packaging Technologies in Food Industrial Practices” during June 19 – July 11, 2021.
40. Mr. Subhankar Mishra successfully completed Thirty (30) hours virtual Haldia Institute of Technology & Ankur Biochem Pvt. Ltd. Approved Faculty Development Programme on “Scope & Application of Fermentation Technology in Food, Biochemical & Allied Industries” during July 17 – August 15, 2021.
41. Mr. Subhankar Mishra successfully completed 1 & ½ week NPTEL – AICTE Faculty Development Program on “Dairy and Food Process and Products Technology” conducted by Indian Institute of Technology, Kharagpur during July – October, 2021.
42. Mr. Subhankar Mishra participated in IP Awareness/ Training program organized by Intellectual Property Office, India on December 22, 2021.
43. Mr. Subhankar Mishra successfully completed one week online FDP on Universal Human Values in Engineering Domain organized by department of Mechanical Engineering, HIT in association with IQAC, HIT during May 4 – 8, 2022.
44. Mr. Subhankar Mishra successfully completed One day awareness workshop on “Food Safety Training and Certification (FoSTaC)” conducted by ITCfSAN and organized by Department of Food Technology, Haldia Institute of Technology, Haldia on June 14, 2022.

### **Academic Year 2020-21**

1. Dr. Sumita Das attended DNV GL Approved online Faculty Development Program (FDP) on “Food Safety and Quality Management System” during August 8 –September 6, 2020.
2. Dr. Sumita Das successfully completed 1 & ½ week NPTEL- AICTE Faculty Development Program on “Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems” conducted by Indian Institute of Technology, Guwahati during January - March, 2021.

3. Dr. Sumita Das attended the online training program on “Standards as Enablers for Sustainability in the Food Processing” by BSI India during May 20 – 30, 2021.
4. Dr. Gourab Chatterjee successfully completed 1 week NPTEL - AICTE Faculty Development Program on “**Bioreactor Design & Analysis**” conducted by Indian Institute of Technology, Madras during January - March, 2021.
5. Dr. Gourab Chatterjee successfully completed 1 & ½ week NPTEL - AICTE Faculty Development Program on “**Thermal Processing of Foods**” conducted by Indian Institute of Technology, Guwahati during July – October, 2020.
6. Dr. Gourab Chatterjee successfully completed ten (10) days virtual DNV GL Approved Faculty Development Programme on “**Food Safety and Quality Management System**” during August 8 – September 6, 2020.
7. Dr. Gourab Chatterjee attended the online training program on “Standards as Enablers for Sustainability in the Food Processing” by BSI India during May 20 – 30, 2021.
8. Ms. Tanushree Ghosh successfully participated in three days programme on “Operations and Practices in Chemical Process Industries” organized by Department of Chemical Engineering, HIT in association with Haldia Regional Centre, IChE, during 17<sup>th</sup> – 19<sup>th</sup> December, 2020.
9. Ms. Tanushree Ghosh participated in the three day online workshop on “Future of Chemical Engineering” sponsored by TEQIP-III and jointly organized by the Department of Chemical Engineering, IIT (ISM) Dhanbad and IChE, Dhanbad Regional Centre during 19<sup>th</sup> – 21<sup>st</sup> March, 2021.
10. Ms. Rahel Suchintita Das successfully completed ten (10) days virtual DNV GL Approved Faculty Development Programme on “**Food Safety and Quality Management System**” during August 8 – September 6, 2020.
11. Mr. Subhankar Mishra attended DNV GL Approved online Faculty Development Program (FDP) on “*Food Safety and Quality Management System*” during August 8 – September 6, 2020.
12. Mr. Subhankar Mishra successfully completed 1 & ½ week NPTEL- AICTE Faculty Development Program on “Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems” conducted by Indian Institute of Technology, Guwahati during January – March, 2021.
13. Mr. Subhankar Mishra attended the online training program on “Standards as Enablers for Sustainability in the Food Processing” by BSI India during May 20 – 30, 2021.

### **Academic Year 2019-20**

1. Dr. Sumita Das successfully completed 7 Day National Workshop on “Managing Self in the VUCA World” Department of Management and Social Science, Haldia Institute of Technology, Haldia in association with Hindustan Unilever Ltd. during September 22 – 29, 2019.
2. Dr. Sumita Das successfully completed training in Manufacturing (Level 2)- Food Safety Superviso (FoSTaC)” organized by Department of Food Technology, Haldia Institute of Technology, Haldia on August 22, 2019.

3. Mr. Gourab Chatterjee successfully completed 7 Day Workshop on 'Advanced Research Analytics' organized by International School of Business & Media (ISB & M), Kolkata, India during June 17 – 23, 2019.
4. Mr. Gourab Chatterjee successfully completed 7 Day National Workshop on "Managing Self in the VUCA World" Department of Management and Social Science, Haldia Institute of Technology, Haldia in association with Hindustan Unilever Ltd. During September 22 – 29, 2019.
5. Mr. Gourab Chatterjee attended eight hours virtual training on "Understanding Food Safety Culture & Food Fraud" conducted by Cotecna Inspection India Pvt. Ltd. on 27<sup>th</sup> and 28<sup>th</sup> June, 2020.
6. Mr. Gourab Chatterjee participated in eight hours training program on Food Safety and Covid 19 Risk Management organized by DNV GL Business Assurance India Pvt. Ltd. during 15<sup>th</sup> and 16<sup>th</sup> May, 2020.
7. Ms. Tanushree Ghosh successfully completed the 1 ½ week NPTEL- AICTE Faculty Development Programme on "Flow through Porous Media" with a consolidated score of 93% held during July – October, 2019.
8. Ms. Tanushree Ghosh successfully completed the 1 ½ week NPTEL- AICTE Faculty Development Programme on "Membrane Technology" with a consolidated score of 94% held during July – October, 2019.
9. Mr. Ranjay Kumar Thakur successfully completed 7 Day National Workshop on "Managing Self in the VUCA World" Department of Management and Social Science, Haldia Institute of Technology, Haldia in association with Hindustan Unilever Ltd. During September 22 – 29, 2019.
10. Ms. Swati Ray successfully completed training in Manufacturing (Level 2)- Food Safety Supervisor (FoSTaC)" organized by Department of Food Technology, Haldia Institute of Technology, Haldia on August 22, 2019.
11. Ms. Swati Ray successfully completed 7 Day National Workshop on "Managing Self in the VUCA World" Department of Management and Social Science, Haldia Institute of Technology, Haldia in association with Hindustan Unilever Ltd. During September 22 – 29, 2019.
12. Mr. Aniruddha De successfully completed 7 Day National Workshop on "Managing Self in the VUCA World" Department of Management and Social Science, Haldia Institute of Technology, Haldia in association with Hindustan Unilever Ltd. during September 22 – 29, 2019.
13. Ms. Rahel Suchintita Das successfully completed 7 Day National Workshop on "Managing Self in the VUCA World" Department of Management and Social Science, Haldia Institute of Technology, Haldia in association with Hindustan Unilever Ltd. during September 22 – 29, 2019.
14. Ms. Rahel Suchintita Das successfully completed 1 ½ week NPTEL- AICTE Faculty Development Programme on "Thermal Operations in Food Process Engineering: Theory & Applications" organized by Agricultural and Food Engineering Department, Indian Institute of Technology, Kharagpur during July – October, 2019.
15. Dr. Indira Dey Paul successfully completed NPTEL certified one and half Week Faculty Development Program Course on "NBA Accreditation and Teaching-Learning in Engineering (NATE)" during the period of January – April, 2020.
16. Mr. Subhankar Mishra attended eight hours virtual training on "Understanding Food Safety Culture & Food Fraud" conducted by Cotecna Inspection India Pvt. Ltd. on 27<sup>th</sup> and 28<sup>th</sup> June, 2020.



