

P-2024



(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

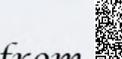
15/09/2021 to 30/10/2021





of Completion —







ABHISHEK GANGULY

HERITAGE INSTITUTE OF TECHNOLOGY

Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL AND URBAN WASTEWATER MANAGEMENT: STP, ETP AM



A=90% and above

B=80-89

C=70-79%

D=60-69%

grade. with

Certificate ID: TG/2021/12621

Issuing Date: 30/10/202





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

---- of Completion -----

ADITI SARKAR





HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA

Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL AND URBAN WASTEWATER MANAGEMENT: STP, ETP AM



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/12660

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

---- of Completion -----

DRIY







HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA

Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/13013

Issuing Date: 30/10/2024



इंडियन ऑयल कॉर्पोरेशन लिमिटेड

रिफाइनरीज प्रभागः गुवाहाटी रिफाइनरी नूनमाटी, गुवाहाटी - ७८१०२० (असम)

Indian Oil Corporation Limited

Refineries Division : Guwahati Refinery Noonmati, Guwahati - 781020, Assam. Fax : 0361-2657250, 2657251

EPABX : 0361-2597000
Website : www.iocl.com
E-mail id : GR@indianoil.in



रिफाइनरीज प्रभाग Refineries Division

To Whom It May Concern

This is to certify that **AINDRILA BOSE** (2021001123) a student of 6th Semester in B. Tech. in CHEMICAL ENGINEERING from HERITAGE INSTITUTE OF TECHNOLOGY has undertaken virtual internship at Indian Oil Corporation Limited, Guwahati Refinery from 16-07-2021 to 16-09-2021.

During the internship, he/ she has been found to be punctual and diligent. After completion of the internship, he/ she has submitted an Industrial Training/Project Report at Indian Oil Corporation Limited, Guwahati Refinery.

We wish him/her all success in life.

Project Name:OIL MOVEMENT AND STORAGE SYSTEMS AT IOCL GUWAHATI REFINERY

Project Guide: Mr. Bapureddy Borra, SPNM

Date: 17-09-2021

Place: Guwahati Refinery

Ms. Debanuja Borah

Manager (L & D)

देबानुजा बोरा/ Debanuja Borah प्रबंधक (एल स्वं डी) Manager (L&D) आई ओ सी एल,गुवाहाटी रिफाइनरी,नुनमाटी,गुवाहाटी-२० IOCL,Guwahati Refinery,Noonmati,Guwahati-20



P-2024



(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

of Completion ——



AKASH MUKHERJEE



Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

grade. with

Certificate ID: TG/2021/13041

Issuing Date: 30/10/202



(Online Start-up Training Program: An Internship)



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021





---- of Completion ----







HERITAGE INSTITUTE OF TECHNOLOGY

Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL AND URBAN WASTEWATER MANAGEMENT: STP, ETP AM



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/12649

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

---- of Completion -----

from





Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with B grade.

Certificate ID: TG/2021/13121

Issuing Date: 30/10/202





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

----- of Completion -----

BRISHTI DAS





Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with B grade.

Certificate ID: TG/2021/13022

Issuing Date: 30/10/202





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

---- of Completion -----

DEEKSHA PRATAP







Successfully completed Online Industrial Internship Program on the subject of

DOMESTIC & AGRICULTURE SOLAR ENERGY: COMMISSIONING TO INSTA



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/12547

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

of Completion —

HRITIKA GHOSH





Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL AND URBAN WASTEWATER MANAGEMENT: STP, ETP ANT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/12579

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

---- of Completion ----

from



OMPRAKASH BERA



Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/13104

Issuing Date: 30/10/2024



P-2024



(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

of Completion ———



PRATTAY CHAKRABORTY



Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

grade. with

Certificate ID: TG/2021/13106

Issuing Date: 30/10/202





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

— of Completion —

PREETAM PATRA



HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA

Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with B grade.

Certificate ID: TG/2021/13107

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

----- of Completion -----



RITESH KUMAR PANDEY

HERITAGE INSTITUTE OF TECHNOLOGY KOLKATA

Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/13049

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

— of Completion —

SANYA SHARMA





Successfully completed Online Industrial Internship Program on the subject of

DOMESTIC & AGRICULTURE SOLAR ENERGY: COMMISSIONING TO INSTA



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/12542

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

---- of Completion -----



SAPTASYA MUKHOPADHYAY

HERITAGE INSTITUTE OF TECHNOLOGY

Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/13059

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

- of Completion -

SARITPRIYA MONDAL





Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/13110

Issuing Date: 30/10/202





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

----- of Completion -----



SAYAM BHATTACHARYYA



Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL AND URBAN WASTEWATER MANAGEMENT: STP, ETP AM



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/12659

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

---- of Completion -----

SAYAN RAY



SAYAN RAY

Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with B grade.

Certificate ID: TG/2021/13051

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

---- of Completion ----

SHOHINEE DAS







Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/12977

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

- of Completion -

SOUMIK MONDAL





HERITAGE INSTITUTE OF TECHNOLOGY

Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/13064

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

---- of Completion -----

SUMANA KARMAKAR



HERITAGE INSTITUTE OF TECHNOLOGY

Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/13068

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

---- of Completion ----



SURYADEEP GANGOPADHYAY

HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA

Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/13069

Issuing Date: 30/10/2024





(Online Start-up Training Program: An Internship)

Projects & Environment



Organized by: Terra-Green Technologies Pvt. Ltd., in association with Projects & Environment

15/09/2021 to 30/10/2021



CERTIFICATE

---- of Completion ----

SUVAM CHATTERJEE



HERITAGE INSTITUTE OF TECHNOLOGY KOLKATA

Successfully completed Online Industrial Internship Program on the subject of

INDUSTRIAL ENVIRONMENTAL POLLUTION MANAGEMENT



A=90% and above

B=80-89

C=70-79%

D=60-69%

with A grade.

Certificate ID: TG/2021/12980

Issuing Date: 30/10/2024



Petroleum and Petrochemical Industries



Jointly Organized by

Faculty of Engineering & Technology, Jadavpur University, Kolkata And

Vivekananda Institute of Environment & Management, Kolkata

20 August 2021--29 September 2021

Certificate of Completion

This certificate is hereby awarded to Soumyajit Kundu of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A+ Grade.

Certificate id: SUMMER2021001 Date of issue: 26 October 2021 Ashanendu Mandal
Former Chief General Manager,
ONGC & Course Coordinator

anandal

Dr Arunkanti Biswas Secretary, VIEM & Jt. Course Director

130gwas

Dr Bhaskar Gupta
Professor, ETCE, JU &
Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B

Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields,
Enhanced Oil Recovery of Mature Oil fields, Safety in Off-shore Oil fields, Overview of IOC Haldia Refinery,
Reforming, Delayed Coking & Hydro-processing in IOC Refineries, Technology of LNG business today,
Optimum Refinery configuration: Oil to Chemicals, Organic Chloride issues, Waste to Wealth; Prospects
of CBM, Catalytic gasification of coal, Supply chain Mgt of Petroleum products, Circularity & valorization
of Chemicals & Fuels, Technology applications in Indian Industry for Sustainable Growth; Industry 4.0:
Applications in Refineries, IOT techniques for solving Global Problems, Sustainability & Energy Canvas



Petroleum and Petrochemical Industries



Jointly Organized by

Faculty of Engineering & Technology, Jadavpur University, Kolkata And

Vivekananda Institute of Environment & Management, Kolkata

20 August 2021--29 September 2021

Certificate of Completion

This certificate is hereby awarded to Avoy Kumar of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A+ Grade.

Certificate id: SUMMER2021002
Date of issue: 26 October 2021

Ashanendu Mandal
Former Chief General Manager,
ONGC & Course Coordinator

anandal

Dr Arunkanti Biswas Secretary, VIEM & Jt. Course Director

130gwas

Dr Bhaskar Gupta
Professor, ETCE, JU &
Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields, Enhanced Oil Recovery of Mature Oil fields, Safety in Off-shore Oil fields, Overview of IOC Haldia Refinery, Reforming, Delayed Coking & Hydro-processing in IOC Refineries, Technology of LNG business today, Optimum Refinery configuration: Oil to Chemicals, Organic Chloride issues, Waste to Wealth; Prospects of CBM, Catalytic gasification of coal, Supply chain Mgt of Petroleum products, Circularity & valorization of Chemicals & Fuels, Technology applications in Indian Industry for Sustainable Growth; Industry 4.0:

Applications in Refineries, IOT techniques for solving Global Problems, Sustainability & Energy Canvas

Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours



Petroleum and Petrochemical Industries



Jointly Organized by

Faculty of Engineering & Technology, Jadavpur University, Kolkata And

Vivekananda Institute of Environment & Management, Kolkata

20 August 2021--29 September 2021

Certificate of Completion

This certificate is hereby awarded to Sagnik Saha of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A+ Grade.

Certificate id: SUMMER2021003
Date of issue: 26 October 2021

Ashanendu Mandal
Former Chief General Manager,
ONGC & Course Coordinator

anandal

Dr Arunkanti Biswas Secretary, VIEM & Jt. Course Director

130gwas

Dr Bhaskar Gupta
Professor, ETCE, JU &
Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B

Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields,

Enhanced Oil Recovery of Mature Oil fields, Safety in Off-shore Oil fields, Overview of IOC Haldia Refinery, Reforming, Delayed Coking & Hydro-processing in IOC Refineries, Technology of LNG business today, Optimum Refinery configuration: Oil to Chemicals, Organic Chloride issues, Waste to Wealth; Prospects of CBM, Catalytic gasification of coal, Supply chain Mgt of Petroleum products, Circularity & valorization of Chemicals & Fuels, Technology applications in Indian Industry for Sustainable Growth; Industry 4.0: Applications in Refineries, IOT techniques for solving Global Problems, Sustainability & Energy Canvas



Petroleum and Petrochemical Industries



Jointly Organized by

Faculty of Engineering & Technology, Jadavpur University, Kolkata And

Vivekananda Institute of Environment & Management, Kolkata

20 August 2021--29 September 2021

Certificate of Completion

This certificate is hereby awarded to Arkadip Dutta of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021004
Date of issue: 26 October 2021

Ashanendu Mandal
Former Chief General Manager,
ONGC & Course Coordinator

anandal

Dr Arunkanti Biswas Secretary, VIEM & Jt. Course Director

130gwas

Dr Bhaskar Gupta
Professor, ETCE, JU &
Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields, Enhanced Oil Recovery of Mature Oil fields, Safety in Off-shore Oil fields, Overview of IOC Haldia Refinery, Reforming, Delayed Coking & Hydro-processing in IOC Refineries, Technology of LNG business today, Optimum Refinery configuration: Oil to Chemicals, Organic Chloride issues, Waste to Wealth; Prospects of CBM, Catalytic gasification of coal, Supply chain Mgt of Petroleum products, Circularity & valorization of Chemicals & Fuels, Technology applications in Indian Industry for Sustainable Growth; Industry 4.0:

Applications in Refineries, IOT techniques for solving Global Problems, Sustainability & Energy Canvas

Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours



Petroleum and Petrochemical Industries



Jointly Organized by

Faculty of Engineering & Technology, Jadavpur University, Kolkata And

Vivekananda Institute of Environment & Management, Kolkata

20 August 2021--29 September 2021

Certificate of Completion

This certificate is hereby awarded to Saurav Kumar of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021005
Date of issue: 26 October 2021

Ashanendu Mandal
Former Chief General Manager,
ONGC & Course Coordinator

anandal

Dr Arunkanti Biswas Secretary, VIEM & Jt. Course Director

130gwas

Dr Bhaskar Gupta
Professor, ETCE, JU &
Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields,
Enhanced Oil Recovery of Mature Oil fields, Safety in Off-shore Oil fields, Overview of IOC Haldia Refinery,
Reforming, Delayed Coking & Hydro-processing in IOC Refineries, Technology of LNG business today,
Optimum Refinery configuration: Oil to Chemicals, Organic Chloride issues, Waste to Wealth; Prospects
of CBM, Catalytic gasification of coal, Supply chain Mgt of Petroleum products, Circularity & valorization
of Chemicals & Fuels, Technology applications in Indian Industry for Sustainable Growth; Industry 4.0:
Applications in Refineries, IOT techniques for solving Global Problems, Sustainability & Energy Canvas



Petroleum and Petrochemical Industries



Jointly Organized by

Faculty of Engineering & Technology, Jadavpur University, Kolkata And

Vivekananda Institute of Environment & Management, Kolkata

20 August 2021--29 September 2021

Certificate of Completion

This certificate is hereby awarded to Jyotsana Rani of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021006
Date of issue: 26 October 2021

Ashanendu Mandal
Former Chief General Manager,
ONGC & Course Coordinator

anandal

Dr Arunkanti Biswas Secretary, VIEM & Jt. Course Director

130gwas

Dr Bhaskar Gupta
Professor, ETCE, JU &
Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B

Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields,
Enhanced Oil Recovery of Mature Oil fields, Safety in Off-shore Oil fields, Overview of IOC Haldia Refinery,
Reforming, Delayed Coking & Hydro-processing in IOC Refineries, Technology of LNG business today,
Optimum Refinery configuration: Oil to Chemicals, Organic Chloride issues, Waste to Wealth; Prospects
of CBM, Catalytic gasification of coal, Supply chain Mgt of Petroleum products, Circularity & valorization
of Chemicals & Fuels, Technology applications in Indian Industry for Sustainable Growth; Industry 4.0:
Applications in Refineries, IOT techniques for solving Global Problems, Sustainability & Energy Canvas



Petroleum and Petrochemical Industries



Jointly Organized by

Faculty of Engineering & Technology, Jadavpur University, Kolkata And

Vivekananda Institute of Environment & Management, Kolkata

20 August 2021--29 September 2021

Certificate of Completion

This certificate is hereby awarded to Subharanil Ghosh of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021007 Date of issue: 26 October 2021

Ashanendu Mandal
Former Chief General Manager,
ONGC & Course Coordinator

anandal

Dr Arunkanti Biswas Secretary, VIEM & Jt. Course Director

130gwas

Dr Bhaskar Gupta
Professor, ETCE, JU &
Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields, Enhanced Oil Recovery of Mature Oil fields, Safety in Off-shore Oil fields, Overview of IOC Haldia Refinery, Reforming, Delayed Coking & Hydro-processing in IOC Refineries, Technology of LNG business today, Optimum Refinery configuration: Oil to Chemicals, Organic Chloride issues, Waste to Wealth; Prospects of CBM, Catalytic gasification of coal, Supply chain Mgt of Petroleum products, Circularity & valorization of Chemicals & Fuels, Technology applications in Indian Industry for Sustainable Growth; Industry 4.0: Applications in Refineries, IOT techniques for solving Global Problems, Sustainability & Energy Canvas



Petroleum and Petrochemical Industries



Jointly Organized by

Faculty of Engineering & Technology, Jadavpur University, Kolkata And

Vivekananda Institute of Environment & Management, Kolkata

20 August 2021--29 September 2021

Certificate of Completion

This certificate is hereby awarded to Akash Singh of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021008
Date of issue: 26 October 2021

Ashanendu Mandal
Former Chief General Manager,
ONGC & Course Coordinator

anandal

Dr Arunkanti Biswas Secretary, VIEM & Jt. Course Director

130gwas

Dr Bhaskar Gupta
Professor, ETCE, JU &
Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B

Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields,
Enhanced Oil Recovery of Mature Oil fields, Safety in Off-shore Oil fields, Overview of IOC Haldia Refinery,
Reforming, Delayed Coking & Hydro-processing in IOC Refineries, Technology of LNG business today,
Optimum Refinery configuration: Oil to Chemicals, Organic Chloride issues, Waste to Wealth; Prospects
of CBM, Catalytic gasification of coal, Supply chain Mgt of Petroleum products, Circularity & valorization
of Chemicals & Fuels, Technology applications in Indian Industry for Sustainable Growth; Industry 4.0:
Applications in Refineries, IOT techniques for solving Global Problems, Sustainability & Energy Canvas



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Certificate of Completion

This certificate is hereby awarded to Aniqua Haque of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021009
Date of issue: 26 October 2021

Ashanendu Mandal
Former Chief General Manager,
ONGC & Course Coordinator

anandal

Dr Arunkanti Biswas Secretary, VIEM & Jt. Course Director

130gwas

Dr Bhaskar GuptaProfessor, ETCE, JU &
Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields, Enhanced Oil Recovery of Mature Oil fields, Safety in Off-shore Oil fields, Overview of IOC Haldia Refinery, Reforming, Delayed Coking & Hydro-processing in IOC Refineries, Technology of LNG business today, Optimum Refinery configuration: Oil to Chemicals, Organic Chloride issues, Waste to Wealth; Prospects of CBM, Catalytic gasification of coal, Supply chain Mgt of Petroleum products, Circularity & valorization of Chemicals & Fuels, Technology applications in Indian Industry for Sustainable Growth; Industry 4.0: Applications in Refineries, IOT techniques for solving Global Problems, Sustainability & Energy Canvas

Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours



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Certificate of Completion

This certificate is hereby awarded to Sathi Saha of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A+ Grade.

Certificate id: SUMMER2021010
Date of issue: 26 October 2021

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Dr Bhaskar Gupta
Professor, ETCE, JU &
Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields,
Enhanced Oil Recovery of Mature Oil fields, Safety in Off-shore Oil fields, Overview of IOC Haldia Refinery,
Reforming, Delayed Coking & Hydro-processing in IOC Refineries, Technology of LNG business today,
Optimum Refinery configuration: Oil to Chemicals, Organic Chloride issues, Waste to Wealth; Prospects
of CBM, Catalytic gasification of coal, Supply chain Mgt of Petroleum products, Circularity & valorization
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Certificate of Completion

This certificate is hereby awarded to Ishika Samanta of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A+ Grade.

Certificate id: SUMMER2021011
Date of issue: 26 October 2021

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Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields,
Enhanced Oil Recovery of Mature Oil fields, Safety in Off-shore Oil fields, Overview of IOC Haldia Refinery,
Reforming, Delayed Coking & Hydro-processing in IOC Refineries, Technology of LNG business today,
Optimum Refinery configuration: Oil to Chemicals, Organic Chloride issues, Waste to Wealth; Prospects
of CBM, Catalytic gasification of coal, Supply chain Mgt of Petroleum products, Circularity & valorization
of Chemicals & Fuels, Technology applications in Indian Industry for Sustainable Growth; Industry 4.0:
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Certificate of Completion

This certificate is hereby awarded to Avoy Kumar of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A+ Grade.

Certificate id: SUMMER2021002
Date of issue: 26 October 2021

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Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B

Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields,

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields, Enhanced Oil Recovery of Mature Oil fields, Safety in Off-shore Oil fields, Overview of IOC Haldia Refinery, Reforming, Delayed Coking & Hydro-processing in IOC Refineries, Technology of LNG business today, Optimum Refinery configuration: Oil to Chemicals, Organic Chloride issues, Waste to Wealth; Prospects of CBM, Catalytic gasification of coal, Supply chain Mgt of Petroleum products, Circularity & valorization of Chemicals & Fuels, Technology applications in Indian Industry for Sustainable Growth; Industry 4.0: Applications in Refineries, IOT techniques for solving Global Problems, Sustainability & Energy Canvas



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Certificate of Completion

This certificate is hereby awarded to Reeshik Sarkar of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021013 Date of issue: 26 October 2021

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Grading System:

85% and above A+ 70%--84% 60%-- 69%

Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours



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Certificate of Completion

This certificate is hereby awarded to Saptarshi Kundu of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A+ Grade.

Certificate id: SUMMER2021014
Date of issue: 26 October 2021

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Grading System:

85% and above A+ 70%--84% A 60%-- 69% B Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours

Broad Topics Covered: Upstream Oil & Gas Production in Off-shore, Exploitation of Deepwater Oilfields,



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Certificate of Completion

This certificate is hereby awarded to Abhishek Adhikary of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021015
Date of issue: 26 October 2021

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Certificate of Completion

This certificate is hereby awarded to Siddhanta Chakraborty of Heritage Institute of Technology who has successfully completed the Internship Programfollowing all necessary criteria with A Grade.

Certificate id: SUMMER2021016
Date of issue: 26 October 2021

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Certificate of Completion

This certificate is hereby awarded to Sk Parvej Akhtar of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A+ Grade.

Certificate id: SUMMER2021022
Date of issue: 26 October 2021

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Certificate of Completion

This certificate is hereby awarded to Saubhik Malik of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021023
Date of issue: 26 October 2021

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Grading System:

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Certificate of Completion

This certificate is hereby awarded to Arindam Gupta Roy of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021026
Date of issue: 26 October 2021

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Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours

Littopics Covered: Linstream Oil & Gas Production in Off-shore. Exploitation of Deepwater O



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Certificate of Completion

This certificate is hereby awarded to Shashi Shekhar of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021028
Date of issue: 26 October 2021

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Grading System:

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Certificate of Completion

This certificate is hereby awarded to Sarbojit Bhattacharya of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021029
Date of issue: 26 October 2021

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Grading System:

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Certificate of Completion

This certificate is hereby awarded to Richik Deogharia of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A+ Grade.

Certificate id: SUMMER2021035
Date of issue: 26 October 2021

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Grading System:

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Certificate of Completion

This certificate is hereby awarded to Samagga Mukherjee of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021037
Date of issue: 26 October 2021

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Grading System:

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Certificate of Completion

This certificate is hereby awarded to Abhishek Kumar of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with A Grade.

Certificate id: SUMMER2021043
Date of issue: 26 October 2021

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Grading System:

85% and above A+ 70%--84% A 60%-- 69% B Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours



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Certificate of Completion

This certificate is hereby awarded to Rudra Prosad Dana of Heritage Institute of Technology who has successfully completed the Internship Program following all necessary criteria with B Grade.

Certificate id: SUMMER2021046
Date of issue: 26 October 2021

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Dr Bhaskar Gupta
Professor, ETCE, JU &
Course Director

Grading System:

85% and above A+ 70%--84% A 60%-- 69% B Course Coverage: Lecture: 39 hours+ Evaluation/ Flipped Class: 06 hours = Total 45 hours