



# J.N.L. College

Khagaul, Patna-801105

(A Constituent Unit of Patliputra University, Patna)

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Principal Office

Ref.No. .... 497/ GS/2023

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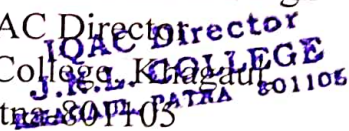
## Declaration

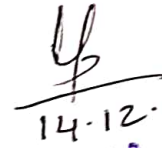
This is to certify that the data includes in this self-study Report (SSR) are true to the best of my knowledge. This SSR is prepared by the institution after discussion and no part thereof has been outsourced.

I/We am/are aware that the peer team will validate the information provided in this SSR during the peer team visit.

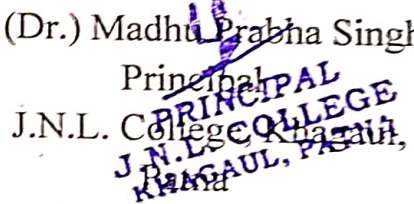
  
14.12.23

Prof. (Dr.) Nikhil Kumar Singh  
IQAC Director  
J. N. L. College, Khagaul  
Patna-801105



  
14.12.2023

Prof. (Dr.) Madhu Prabha Singh  
Principal  
J.N.L. College, Khagaul,  
Patna





**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT PRAVEEN KUMAR, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MAGNETOCHEMISTRY*** FOR PAPER CC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT UJJAWAL KUMAR, ROLL NO. 7 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ISOPOLY AND HETEROPOLY OF ACIDS AND BASES*** FOR PAPER CC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT SIYA KUMARI, ROLL NO. 17 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER CC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT SUJATA KUMARI, ROLL NO. 20 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MAGNETOCHEMISTRY*** FOR PAPER CC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT SYED MD. SHARAF NAZIM HUSSAIN, ROLL NO. 28 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER CC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT ANIKET PASWAN, ROLL NO. 26 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MAGNETOCHEMISTRY*** FOR PAPER CC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

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THIS IS TO CERTIFY THAT KAUSHKI, ROLL NO. 53 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF VSEPR THEORY*** FOR PAPER CC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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THIS IS TO CERTIFY THAT NANDANI BHARTI, ROLL NO. 57 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER CC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT PRAVEEN KUMAR, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ELECTROCHEMISTRY*** FOR PAPER CC2 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT SIYA KUMARI, ROLL NO. 17 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MACROMOLECULES*** FOR PAPER CC2 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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THIS IS TO CERTIFY THAT SUJATA KUMARI, ROLL NO. 20 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF DEBYE-HUCKLE THEORY OF CONDUCTANCE OF ELECTROLYTIC SOLUTION*** FOR PAPER CC2 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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THIS IS TO CERTIFY THAT SYED MD. SHARAF NAZIM HUSSAIN, ROLL NO. 28 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF CHEMICAL THERMODYNAMICS*** FOR PAPER CC2 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT AMIT KUMAR, ROLL NO. OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF*** FOR PAPER CC2 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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THIS IS TO CERTIFY THAT KAUSHKI, ROLL NO. 53 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MACROMOLECULES*** FOR PAPER CC2 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT NANDANI BHARTI, ROLL NO. 57 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MACROMOLECULES*** FOR PAPER CC2 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT KAUSHKI, ROLL NO. 53 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF REACTION MECHANISM: STRUCTURE AND REACTIVITY*** FOR PAPER CC3 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT NANDANI BHARTI, ROLL NO. 57 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF NATURE OF BONDING IN ORGANIC MOLECULES*** FOR PAPER CC3 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT PRAVEEN KUMAR, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF DEVELOPMENT AND ITS EFFECT ON ENVIRONMENT*** FOR PAPER AECC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT UJJAWAL KUMAR, ROLL NO. 7 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ENVIRONMENTAL ETHICS AND ECOSYSTEM*** FOR PAPER AECC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT SIYA KUMARI, ROLL NO. 17 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF CONCEPT OF BIODIVERSITY AND ITS CONSERVATION*** FOR PAPER AECC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT SUJATA KUMARI, ROLL NO. 20 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ENVIRONMENTAL ETHICS AND ECOSYSTEM*** FOR PAPER AECC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT SYED MD. SHARAF NAZIM HUSSAIN, ROLL NO. 28 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER AECC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT RAVI SHANKAR PATEL, ROLL NO. 27 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF CONCEPT OF BIODIVERSITY AND ITS CONSERVATION*** FOR PAPER AECC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT ANIKET PASWAN, ROLL NO. 26 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ENVIRONMENTAL POLLUTION*** FOR PAPER AECC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT CHANDNI KUMARI, ROLL NO. 29 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ENVIRONMENTAL SUSTAINABILITY*** FOR PAPER AECC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Dr. Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT SHASHI PREM, ROLL NO. 31 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ENVIRONMENTAL ETHICS AND ECOSYSTEM*** FOR PAPER AECC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT RAJ KUMAR, ROLL NO. 47 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF BIODIVERSITY AND ITS CONSERVATION*** FOR PAPER AECC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT KAUSHKI, ROLL NO. 53 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF BIODIVERSITY AND ITS CONSERVATION*** FOR PAPER AECC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT NANDANI BHARTI, ROLL NO. 57 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2023-2025 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER AECC1 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF STEREOCHEMISTRY*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF NATURE OF BONDING IN ORGANIC MOLECULES*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF CHEMICAL DYNAMICS*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF REACTION MECHANISM*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MAGNETOCHEMISTRY*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ELECTRO CHEMISTRY*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF NATURE OF BONDING IN ORGANIC MOLECULE*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF VSEPR THEORY AND CFT*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ELECTRO CHEMISTRY*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ALIPHATIC NUCLEOPHILIC SUBSTITUTION*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **AYESHA JAHAN**, ROLL NO. 21 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **AYESHA JAHAN**, ROLL NO. 21 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ELECTRO CHEMISTRY*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **AYESHA JAHAN**, ROLL NO. 21 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF REACTION MECHANISM*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **AYESHA JAHAN**, ROLL NO. 21 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **BHANU PRATAP VATS**, ROLL NO. 42 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MAGNETOCHEMISTRY*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **BHANU PRATAP VATS**, ROLL NO. 42 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ELECTRO CHEMISTRY*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **BHANU PRATAP VATS**, ROLL NO. 42 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF STEREOCHEMISTRY*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **BHANU PRATAP VATS**, ROLL NO. 42 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MACROMOLECULES*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF REACTION MECHANISM*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DHARMVEER KUMAR**, ROLL NO. 22 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI**, **HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DHARMVEER KUMAR**, ROLL NO. 22 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF CHEMICAL DYNAMICS*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

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*Dr. Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DHARMVEER KUMAR**, ROLL NO. 22 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **GAURAV KUMAR**, ROLL NO. 39 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

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## ***Certificate of Appreciation***

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*Shubhangi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF VSEPR THEORY AND CFT*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ELECTRO CHEMISTRY*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **INDRASEN KUMAR**, ROLL NO. 47 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF VSEPR THEORY AND CFT*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

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## ***Certificate of Appreciation***

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*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

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*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **KAUSHILYA KUMARI**, ROLL NO. 20 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MAGNETOCHEMISTRY*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **KAUSHILYA KUMARI**, ROLL NO. 20 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ELECTRO CHEMISTRY*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **KAUSHILYA KUMARI**, ROLL NO. 20 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF NATURE OF BONDING IN ORGANIC MOLECULES*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **KAUSHILYA KUMARI**, ROLL NO. 20 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MANNU KUMAR SINGH**, ROLL NO. 41 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI**, **HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



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## ***Certificate of Appreciation***

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*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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*Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD NAZIR ALI**, ROLL NO. 28 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF VSEPR THEORY AND CFT*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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*Shubhangi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF VSEPR THEORY AND CFT*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MACROMOLECULES*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF NATURE OF BONDING IN ORGANIC MOLECULES*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

HEAD, DEPARTMENT OF CHEMISTRY

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PRINSY KUMARI**, ROLL NO. 9 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF REACTION MECHANISM OF TRANSITION METAL COMPLEXES*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PRINSY KUMARI**, ROLL NO. 9 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MACROMOLECULES*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PRINSY KUMARI**, ROLL NO. 9 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF NATURE OF BONDING IN ORGANIC MOLECULES*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PRINSY KUMARI**, ROLL NO. 9 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PUJA KUMARI**, ROLL NO. 35 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF REACTION MECHANISM OF TRANSITION METAL COMPLEXES*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PUJA KUMARI**, ROLL NO. 35 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF CHEMICAL THERMODYNAMICS*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PUJA KUMARI**, ROLL NO. 35 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ALIPHATIC ELECTROPHILIC SUBSTITUTION*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI**, **HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PUJA KUMARI**, ROLL NO. 35 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI**, HEAD, **DEPARTMENT OF CHEMISTRY**.

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAUSHAN KUMAR**, ROLL NO. 4 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF VSEPR THEORY AND CFT*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAUSHAN KUMAR**, ROLL NO. 4 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ELECTRO CHEMISTRY*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAUSHAN KUMAR**, ROLL NO. 4 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF STEREOCHEMISTRY*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAUSHAN KUMAR**, ROLL NO. 4 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAVI RAJ**, ROLL NO. 18 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAVI RAJ**, ROLL NO. 18 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ELECTRO CHEMISTRY*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAVI RAJ**, ROLL NO. 18 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF MAGNETOCHEMISTRY*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Dr. Shubhangi Tripathi*

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### ***Certificate of Appreciation***

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*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF METAL LIGAND EQUILIBRIUM IN SOLUTION*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF CHEMICAL THERMODYNAMICS*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ALIPHATIC NUCLEOPHILIC SUBSTITUTION*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SAKET KUMAR**, ROLL NO. 44 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF ISOPOLY AND HETEROPOLY ACID AND SALT*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SAKET KUMAR**, ROLL NO. 44 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF STATISTICAL THERMODYNAMICS*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SAKET KUMAR**, ROLL NO. 44 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF NATURE OF BONDING IN ORGANIC MOLECULE*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SAKET KUMAR**, ROLL NO. 44 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SANTU KUMAR**, ROLL NO. 2 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF REACTION MECHANISM OF TRANSITION METAL COMPLEXES*** FOR PAPER **CC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SANTU KUMAR**, ROLL NO. 2 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF CHEMICAL THERMODYNAMICS*** FOR PAPER **CC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SANTU KUMAR**, ROLL NO. 2 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF STEREOCHEMISTRY*** FOR PAPER **CC3** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SANTU KUMAR**, ROLL NO. 2 OF **M.SC CHEMISTRY** SEMESTER FIRST SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC IMPLEMENTATION OF SWACHH BHARAT ABHIYAN*** FOR PAPER **AECC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF NUCLEAR CHEMISTRY** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SYMMETRY IN CHEMISTRY*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF APPROXIMATE METHOD*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF ADDITION TO CARBON – CARBON MULTIPLE BONDS*** FOR PAPER CC8 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF COMPUTER AND ICT** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF SOLID STATE CHEMISTRY** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF METAL PIE-COMPLEXES** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF CHEMICAL BONDING** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF CARBOHYDRATE** FOR PAPER **CC8** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Dr. Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF COMPUTER AND ICT*** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF NUCLEAR CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF METAL CLUSTERS** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF CHEMICAL BONDING** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF CARBOHYDRATE** FOR PAPER **CC8** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF COMPUTER AND ICT** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF NUCLEAR CHEMISTRY** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF METAL CLUSTERS** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF CHEMICAL BONDING** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF CARBOHYDRATE** FOR PAPER **CC8** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF COMPUTER AND ICT** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **AYESHA JAHAN**, ROLL NO. 21 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF NUCLEAR CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **AYESHA JAHAN**, ROLL NO. 21 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF METAL CLUSTERS** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

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*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

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*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **BHANU PRATAP VATS**, ROLL NO. 42 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SOLID STATE CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **BHANU PRATAP VATS**, ROLL NO. 42 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF METAL CLUSTER*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **BHANU PRATAP VATS**, ROLL NO. 42 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF INTRODUCTION OF QUANTUM MECHANICS*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

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*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **BHANU PRATAP VATS**, ROLL NO. 42 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF COMPUTER AND ICT*** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SOLID STATE CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF GROUP THEORY IN CHEMISTRY*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF HUCKEL MOLECULAR ORBITAL THEORY*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF PHOTOCHEMISTRY OF CARBONYL COMPOUNDS*** FOR PAPER CC8 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF COMPUTER AND ICT** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DHARMVEER KUMAR**, ROLL NO. 22 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF SOLID STATE CHEMISTRY** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DHARMVEER KUMAR**, ROLL NO. 22 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF METAL CLUSTERS*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Dr. Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DHARMVEER KUMAR**, ROLL NO. 22 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF HUCKEL MOLECULAR ORBITAL THEORY*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DHARMVEER KUMAR**, ROLL NO. 22 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF CARBOHYDRATE** FOR PAPER **CC8** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Dr. Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **GAURAV KUMAR**, ROLL NO. 39 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SOLID STATE CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **GAURAV KUMAR**, ROLL NO. 39 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF METAL CLUSTERS*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **GAURAV KUMAR**, ROLL NO. 39 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF HUCKEL MOLECULAR ORBITAL THEORY*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **GAURAV KUMAR**, ROLL NO. 39 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF CARBOHYDRATE*** FOR PAPER **CC8** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF NUCLEAR CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SYMMETRY IN CHEMISTRY*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF APPROXIMATE METHOD*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF ADDITION TO CARBON – CARBON MULTIPLE BONDS*** FOR PAPER CC8 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF COMPUTER AND ICT*** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **INDRASEN KUMAR**, ROLL NO. 47 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF NUCLEAR CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **INDRASEN KUMAR**, ROLL NO. 47 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF ELECTRONIC SPECTRA OF TRANSITION METAL COMPLEXES*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **INDRASEN KUMAR**, ROLL NO. 47 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF INTRODUCTION OF QUANTUM MECHANICS*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **INDRASEN KUMAR**, ROLL NO. 47 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF ADDITION TO CARBON – CARBON MULTIPLE BONDS*** FOR PAPER CC8 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **INDRASEN KUMAR**, ROLL NO. 47 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF COMPUTER AND ICT*** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **KAUSHILYA KUMARI**, ROLL NO. 20 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF NUCLEAR CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **KAUSHILYA KUMARI**, ROLL NO. 20 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF METAL CLUSTERS*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **KAUSHILYA KUMARI**, ROLL NO. 20 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF CHEMICAL BONDING*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **KAUSHILYA KUMARI**, ROLL NO. 20 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF CARBOHYDRATE*** FOR PAPER **CC8** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **KAUSHILYA KUMARI**, ROLL NO. 20 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF COMPUTER AND ICT*** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MANNU KUMAR SINGH**, ROLL NO. 41 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SOLID STATE CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MANNU KUMAR SINGH**, ROLL NO. 41 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF GROUP THEORY IN CHEMISTRY*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MANNU KUMAR SINGH**, ROLL NO. 41 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF APPROXIMATE METHOD*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MANNU KUMAR SINGH**, ROLL NO. 41 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF ADDITION TO CARBON – CARBON MULTIPLE BONDS*** FOR PAPER CC8 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

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*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD NAZIR ALI**, ROLL NO. 28 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF NUCLEAR CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD NAZIR ALI**, ROLL NO. 28 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SYMMETRY IN CHEMISTRY*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD NAZIR ALI**, ROLL NO. 28 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF EXACTLY SOLUBLE SYSTEM*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

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*Shubhangi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD NAZIR ALI**, ROLL NO. 28 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF COMPUTER AND ICT*** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF NUCLEAR CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SYMMETRY IN CHEMISTRY*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF INTRODUCTION OF QUANTUM MECHANICS*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF ADDITION TO CARBON – CARBON MULTIPLE BONDS*** FOR PAPER **CC8** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF COMPUTER AND ICT*** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PRINSY KUMARI**, ROLL NO. 9 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF WASTE MANAGEMENT*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PRINSY KUMARI**, ROLL NO. 9 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF METAL CLUSTERS*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PRINSY KUMARI**, ROLL NO. 9 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF HUCKEL MOLECULAR ORBITAL THEORY*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PRINSY KUMARI**, ROLL NO. 9 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF CARBOHYDRATE** FOR PAPER **CC8** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PUJA KUMARI**, ROLL NO. 35 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SOLID STATE CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PUJA KUMARI**, ROLL NO. 35 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF METAL PIE- COMPLEXES*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PUJA KUMARI**, ROLL NO. 35 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF HUCKEL MOLECULAR ORBITAL THEORY*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PUJA KUMARI**, ROLL NO. 35 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF ADDITION TO CARBON – CARBON MULTIPLE BONDS*** FOR PAPER CC8 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PUJA KUMARI**, ROLL NO. 35 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF COMPUTER AND ICT*** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAUSHAN KUMAR**, ROLL NO. 4 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF NUCLEAR CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAUSHAN KUMAR**, ROLL NO. 4 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SYMMETRY IN CHEMISTRY*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAUSHAN KUMAR**, ROLL NO. 4 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF APPROXIMATE METHOD*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAUSHAN KUMAR**, ROLL NO. 4 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF ADDITION TO CARBON – CARBON MULTIPLE BONDS*** FOR PAPER CC8 UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAUSHAN KUMAR**, ROLL NO. 4 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF COMPUTER AND ICT*** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAVI RAJ**, ROLL NO. 18 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF NUCLEAR CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAVI RAJ**, ROLL NO. 18 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SYMMETRY IN CHEMISTRY*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAVI RAJ**, ROLL NO. 18 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF APPROXIMATE METHOD*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAVI RAJ**, ROLL NO. 18 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF ADDITION TO CARBON – CARBON MULTIPLE BONDS*** FOR PAPER **CC8** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAVI RAJ**, ROLL NO. 18 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF COMPUTER AND ICT*** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SOLID STATE CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Dr. Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF METAL PIE- COMPLEXES*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF HUCKEL MOLECULAR ORBITAL THEORY*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF ADDITION TO CARBON – CARBON MULTIPLE BONDS*** FOR PAPER **CC8** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF COMPUTER AND ICT*** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SAKET KUMAR**, ROLL NO. 44 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SOLID STATE CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SAKET KUMAR**, ROLL NO. 44 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF METAL PIE-COMPLEXES** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SAKET KUMAR**, ROLL NO. 44 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF CHEMICAL BONDING** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SAKET KUMAR**, ROLL NO. 44 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF CARBOHYDRATE** FOR PAPER **CC8** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SAKET KUMAR**, ROLL NO. 44 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC APPLICATION OF COMPUTER AND ICT** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SANTU KUMAR**, ROLL NO. 2 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF SOLID STATE CHEMISTRY*** FOR PAPER **CC5** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Dr. Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SANTU KUMAR**, ROLL NO. 2 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF METAL CLUSTERS*** FOR PAPER **CC6** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SANTU KUMAR**, ROLL NO. 2 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF CHEMICAL BONDING*** FOR PAPER **CC7** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SANTU KUMAR**, ROLL NO. 2 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF CARBOHYDRATE*** FOR PAPER **CC8** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SANTU KUMAR**, ROLL NO. 2 OF **M.SC CHEMISTRY** SEMESTER SECOND SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC APPLICATION OF COMPUTER AND ICT*** FOR PAPER **AEC1** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF METAL IONS IMBOLOGICAL SYSTEM*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ENVIRONMENT*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC13** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ABHISHEK KUMAR**, ROLL NO. 46 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF HUMAN VALUES*** FOR PAPER **AECC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF BIOENERGETICS AND ATP CYCLE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ENVIRONMENT*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Dr. Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC ANALYSIS OF ENZYMES** FOR PAPER **CC13** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ADITYA PRAKASH**, ROLL NO. 32 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC ANALYSIS OF GENDER** FOR PAPER **AECC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF MASS SPECTROMETRY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF BIO ENERGETI AND ATP CYCLE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ENVIRONMENT*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF MECHANISM OF ENZYME ACTION*** FOR PAPER **CC13** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ANITA KUMARI**, ROLL NO. 5 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF VARIETY OF MORAL ISSUES*** FOR PAPER **AECC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF BIOLOGICAL DIOXYGEN TRANSPORT*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC ANALYSIS OF GREEN CHEMISTRY** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **ASHWANI KUMARI**, ROLL NO. 48 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF GENDER AND HEALTH ISSUE*** FOR PAPER **AECC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **AYESHA JAHAN**, ROLL NO. 21 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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THIS IS TO CERTIFY THAT **AYESHA JAHAN**, ROLL NO. 21 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF TRANSPORT AND STORAGE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **AYESHA JAHAN**, ROLL NO. 21 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF GENDER AND HEALTH ISSUE*** FOR PAPER **AECC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **BHANU PRATAP VATS**, ROLL NO. 42 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **BHANU PRATAP VATS**, ROLL NO. 42 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF METAL IN MEDICINE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **BHANU PRATAP VATS**, ROLL NO. 42 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ENVIRONMENTAL CHEMISTRY*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

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*Shubhangi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF BIOENERGETICS AND ATP CYCLE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED **STRATEGIC ANALYSIS OF GREEN CHEMISTRY** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Dr. Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

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*Shubhangi*

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THIS IS TO CERTIFY THAT **DEVENDRA SINGH**, ROLL NO. 3 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF HUMAN VALUE*** FOR PAPER **AECC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Dr. Shubhangi Tripathi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DHARMVEER KUMAR**, ROLL NO. 22 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF MAGNETIC RESONANCE SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **DHARMVEER KUMAR**, ROLL NO. 22 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF BIOENERGETICS AND ATP CYCLE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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*Dr. Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **GAURAV KUMAR**, ROLL NO. 39 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF MAGNETIC RESONANCE SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **GAURAV KUMAR**, ROLL NO. 39 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF BIOENERGETICS AND ATP CYCLE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

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*Shubhangi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF BIOENERGETICS AND ATP CYCLE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF GREEN CHEMISTRY*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105





**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF CO-ENZYMÉ CHEMISTRY*** FOR PAPER **CC13** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **HARIOM KUMAR**, ROLL NO. 56 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF HUMAN VALUES*** FOR PAPER **AECC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **INDRASEN KUMAR**, ROLL NO. 47 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF APPLICATION OF SPECTOSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Tripathi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **INDRASEN KUMAR**, ROLL NO. 47 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF METAL IONS IN BIOLOGICAL SYSTEM*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **INDRASEN KUMAR**, ROLL NO. 47 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ENVIRONMENT*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

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*Shubhangi*

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## ***Certificate of Appreciation***

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### ***Certificate of Appreciation***

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*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MANNU KUMAR SINGH**, ROLL NO. 41 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MANNU KUMAR SINGH**, ROLL NO. 41 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF BIOENERGETICS AND ATP CYCLE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MANNU KUMAR SINGH**, ROLL NO. 41 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF GREEN CHEMISTRY*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MANNU KUMAR SINGH**, ROLL NO. 41 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF MECHANISM OF ENZYME ACTION*** FOR PAPER **CC13** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

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*Shubhangi Tripathi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD NAZIR ALI**, ROLL NO. 28 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD NAZIR ALI**, ROLL NO. 28 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF METAL IONS IN BIOLOGICAL SYSTEM*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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### ***Certificate of Appreciation***

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*Shubhangi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD NAZIR ALI**, ROLL NO. 28 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF HUMAN VALUES*** FOR PAPER **AECC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF METAL IONS IN BIOLOGICAL SYSTEM*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ENVIRONMENT*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC13** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **MD SAMI**, ROLL NO. 51 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF HUMAN VALUE*** FOR PAPER **AECC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PRINSY KUMARI**, ROLL NO. 9 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PRINSY KUMARI**, ROLL NO. 9 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF BIOENERGETICS AND ATP CYCLE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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THIS IS TO CERTIFY THAT **PRINSY KUMARI**, ROLL NO. 9 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ATMOSPHERE*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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*Shubhangi*

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PUJA KUMARI**, ROLL NO. 35 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PUJA KUMARI**, ROLL NO. 35 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF BIOENERGETICS AND ATP CYCLE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

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**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **PUJA KUMARI**, ROLL NO. 35 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF GREEN CHEMISTRY*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

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*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

JNL COLLEGE, KHAGAUL, PATNA-801105



**JAGAT NARAIN LAL COLLEGE, KHAGAUL, PATNA-801105**

**PATLIPUTRA UNIVERSITY, PATNA- 800020**

## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAUSHAN KUMAR**, ROLL NO. 4 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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*Shubhangi Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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## ***Certificate of Appreciation***

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*Shubhangi*

HEAD, DEPARTMENT OF CHEMISTRY

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### ***Certificate of Appreciation***

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*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAVI RAJ**, ROLL NO. 18 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ROTATIONAL SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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## ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAVI RAJ**, ROLL NO. 18 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF BIOENERGETICS AND ATP CYCLE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RAVI RAJ**, ROLL NO. 18 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF GREEN CHEMISTRY*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

*Shubhangi Tripathi*

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### ***Certificate of Appreciation***

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### ***Certificate of Appreciation***

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF APPLICATION OF SPECTROSCOPY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF METAL IN MEDICINE*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF GREEN CHEMISTRY*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF COENZYME CHEMISTRY*** FOR PAPER **CC13** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **RISHIKA**, ROLL NO. 34 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF GENDER*** FOR PAPER **AECC2** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SAKET KUMAR**, ROLL NO. 44 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF MASS SPECTROMETRY*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SAKET KUMAR**, ROLL NO. 44 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF TRANSPORT AND STRONG OF DIOXYGEN*** FOR PAPER **CC11** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SAKET KUMAR**, ROLL NO. 44 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF ENVIRONMENT*** FOR PAPER **CC12** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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### ***Certificate of Appreciation***

THIS IS TO CERTIFY THAT **SANTU KUMAR**, ROLL NO. 2 OF **M.SC CHEMISTRY** SEMESTER THIRD SESSION 2022-2024 HAS SUCCESSFULLY COMPLETED THE COURSE PROJECT ENTITLED ***STRATEGIC ANALYSIS OF VIBRATIONAL SPECTRA*** FOR PAPER **CC10** UNDER THE SUPERVISION OF **DR. SHUBHANGI TRIPATHI, HEAD, DEPARTMENT OF CHEMISTRY.**

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*Tripathi*

HEAD, DEPARTMENT OF CHEMISTRY

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