

JANGIPUR COLLEGE



VALUE ADDED COURSE DOCUMENTS

1. ENVIRONMENTAL SCIENCE & GEOGRAPHY
2. NCC & NSS
3. SANSKRIT & PHILOSOPHY
4. ZOOLOGY & BOTANY

VACs RELATED DOCUMENTS

ENVIRONMENTAL

SCIENCE &

GEOGRAPHY

LIST OF STUDENTS ENROLLED

Value-added Course

Department of Geography and Department of Environmental Science

Topic: *Different Hydrological Actions in Environment*

Session: 2022-2023

Duration: 30 hours

Enrollment Details of the students

Date: 16.11.2022

| SL NO. | NAME | DEAPRTMENT | SIGNATURE OF THE STUDENTS |
|--------|---------------------|------------|---------------------------|
| 1 | NAJNIN PARVIN | GEOGRAPHY | Najnin Parvin |
| 2 | ABIDA SULTANA | GEOGRAPHY | Abida Sultana |
| 3 | AKTARA KHATUN | GEOGRAPHY | Aktara Khatun |
| 4 | ANUARA KHATUN | GEOGRAPHY | Anuara Khatun |
| 5 | ANUSHRI DAS | GEOGRAPHY | Anushri Das |
| 6 | AYESHA KHATUN | GEOGRAPHY | Ayesha Khatun |
| 7 | BARIRA KHATUN | GEOGRAPHY | Barira Khatun |
| 8 | BARNALI MANDAL | GEOGRAPHY | Barnali Mandal |
| 9 | BHAGYASHREE DEBNATH | GEOGRAPHY | Bhagyashree Debnath |
| 10 | CHUMKI KARMAKAR | GEOGRAPHY | Chumki Karmakar |
| 11 | DEEPANWITA SAHA | GEOGRAPHY | Deepanwita Saha |
| 12 | DILARA BEGUM | GEOGRAPHY | Dilara Begum |
| 13 | ESITA AFROJ | GEOGRAPHY | Esita Afroj |
| 14 | HALIMA KHATUN | GEOGRAPHY | Halima Khatun |
| 15 | JHUMA HALDER | GEOGRAPHY | Jhuma Halder |
| 16 | JOYEETA DAS | GEOGRAPHY | Joyeeta Das |
| 17 | JUIN GHOSH | GEOGRAPHY | Juin Ghosh |
| 18 | LAXMI DAS | GEOGRAPHY | Laxmi Das. |

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| 19 | MADHUPARNA DE | GEOGRAPHY | Madhuparna de |
| 20 | MUNMUN DAS | GEOGRAPHY | Munmun Das |
| 21 | NABANITA DAS | GEOGRAPHY | Nabanita Das |
| 22 | NAJMIN KHATUN | GEOGRAPHY | Najmin Khatun |
| 23 | NIOTI MONDAL | GEOGRAPHY | Nioti Mondal |
| 24 | NURJAHAN KHATUN | GEOGRAPHY | Nurjahan Khatun |
| 25 | PIYALI DAS | GEOGRAPHY | Piyali Das |
| 26 | PRATIMA BHASKAR | GEOGRAPHY | Pratima Bhaskar |
| 27 | PRITI DAS | GEOGRAPHY | Priti Das |
| 28 | PRITY GHOSH | GEOGRAPHY | Prity Ghosh |
| 29 | RANI MUKHERJEE | GEOGRAPHY | Rani Mukherjee |
| 30 | RAYA SARKAR | GEOGRAPHY | Raya Sarkar |
| 31 | REHENA SULTANA | GEOGRAPHY | Rehena Sultana |
| 32 | RIMPA DAS | GEOGRAPHY | Rimpa Das |
| 33 | RIMPA SAHA | GEOGRAPHY | Rimpa Saha |
| 34 | RINA HALDER | GEOGRAPHY | Rina Halder |
| 35 | SABANA KHATUN | GEOGRAPHY | Sabana Khatun |
| 36 | SABIKA MONSUR | GEOGRAPHY | Sabika Monsur |
| 37 | SALIMA YASMIN | GEOGRAPHY | Salima Yasmin |
| 38 | SAYEMA KHATUN | GEOGRAPHY | Sayema Khatun |
| 39 | SHAMPA SARKAR | GEOGRAPHY | Shampa Sarkar |
| 40 | SHILPI MANDAL | GEOGRAPHY | Shilpi Mandal |
| 41 | SNIGDHA NAG | GEOGRAPHY | Snigdha Nag |
| 42 | SUHANA PARVIN | GEOGRAPHY | Suhana Parvin |
| 43 | SUMAIYA KHATUN | GEOGRAPHY | Sumaiya Khatun |

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| 44 | SUMI KHATUN | GEOGRAPHY | Sumi Khatun |
| 45 | SUNITA ROY | GEOGRAPHY | Sumita Roy |
| 46 | SWASTIKA DAS | GEOGRAPHY | Swastika Das |
| 47 | ABHIJIT SAHA | GEOGRAPHY | Abhijit Saha |
| 48 | AKASH CHAKRABORTY | GEOGRAPHY | Akash Chakraborty |
| 49 | AKRAMUL SK | GEOGRAPHY | Akramul SK |
| 50 | BAPAN SAHA | GEOGRAPHY | Bapan Saha |
| 51 | BISWAJIT HALDER | GEOGRAPHY | Biswajit Halder |
| 52 | BISWAJIT SARKAR | GEOGRAPHY | Biswajit Sarkar |
| 53 | DEBADITYA MANDAL | GEOGRAPHY | Debaditya Mandal |
| 54 | EMDADUL ISLAM | GEOGRAPHY | Emdadul Islam |
| 55 | INJAMAMUL HAQUE | GEOGRAPHY | Injamamul Haque |
| 56 | KAMALENDU SARKAR | GEOGRAPHY | Kamalendu Sarkar |
| 57 | KHUDIRAM DAS | GEOGRAPHY | Khudiram Das |
| 58 | KIRAN DAS | GEOGRAPHY | Kiran Das |
| 59 | KURBAN SHAIKH | GEOGRAPHY | Kurban Sheikh |
| 60 | MA HASANUZZAMAN | GEOGRAPHY | MA Hasanzaman |
| 61 | MASUD ALI | GEOGRAPHY | Masud Ali |
| 62 | MD BAIDUL ISLAM | GEOGRAPHY | Md. Baidul Islam |
| 63 | MD WASHIM AKTAR | GEOGRAPHY | MD Washim Aktar |
| 64 | MILON RAJBANSHI | GEOGRAPHY | Milon Rajbanshi |
| 65 | MOTAHAR HOSSAIN | GEOGRAPHY | Motahar Hossain |
| 66 | NAGARDIP MANDAL | GEOGRAPHY | Nagardip Mandal |
| 67 | NAIMUDDIN SK | GEOGRAPHY | Naimuddin SK |
| 68 | RAHUL MONDAL | GEOGRAPHY | Rahul Mondal |

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| 69 | RAJDEEP RAJAK | GEOGRAPHY | Rajdeep Rajak |
| 70 | RAJESH DAS | GEOGRAPHY | Rajesh Das |
| 71 | RAJIB DAS | GEOGRAPHY | Rajib Das |
| 72 | RAJKUMAR CHOUDHURY | GEOGRAPHY | Rajkumar Choudhury |
| 73 | SAIDUL SHAIKH | GEOGRAPHY | Saidul Shaikh |
| 74 | SAMYA NATH | GEOGRAPHY | Samya Nath |
| 75 | SOMESH MAL | GEOGRAPHY | Somesh Mal |
| 76 | SUJAY DAS | GEOGRAPHY | Sujay Das |
| 77 | SUJIT PALAR | GEOGRAPHY | Sujit Palar |
| 78 | SUKCHAND MANDAL | GEOGRAPHY | Sukchand Mandal |
| 79 | SWAPAN DAS | GEOGRAPHY | Swapan Das |
| 80 | TANMAY MONDAL | GEOGRAPHY | Tanmay Mondal |
| 81 | UTFAL MANDAL | GEOGRAPHY | Utfal Mandal |
| 82 | SAHANA ATIYA | ENVIRONMENTAL SCIENCE | Sahana Atiya |
| 83 | KETAN DAS | ENVIRONMENTAL SCIENCE | Ketan Das |
| 84 | SUBHACHARAN DAS | ENVIRONMENTAL SCIENCE | Subhacharan Das |
| 85 | NIRJAS ALI | ENVIRONMENTAL SCIENCE | Nirjas Ali |
| 86 | MONIRUL SK | ENVIRONMENTAL SCIENCE | Monirul SK |
| 87 | SAMUJJOHA SK | ENVIRONMENTAL SCIENCE | Samujjoha SK |

1. Ria Biswas
(HOD, Dept. of Geography)
Jangipur College

2. Rizwanul Islam
Dept. of. ENVS
Jangipur college

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COURSE MODULE

Value Added Course
Organized by Department of Geography and Department of Environmental Science
Session: 2022-2023
On
Different Hydrological Action in Environment
(Course duration: 30 hours)

Topics:

1. Hydrology- Definition, Scope, Content, Branches and Significance in life and environment;
2. Hydrological action and its influence on environmental process;
3. a). Ground water as a most relevant aspect of environment;
b). Ground water movement;
4. Environmental influences on ground water levels;
5. a). Quality of ground water;
b). Pollution of ground water;
c). Arsenic contaminations in ground water-a case study of Murshidabad district;
6. Artificial Rainfall –Concept, process, origin, conditions. Evolution of artificial rain making, problems associated with artificial rain making;
7. Natural Water Management –Concept, Process and its relevance in present day context;
8. Integrated river basin management-Concepts, steps, different sectors of river basin management;

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SPECIMEN CERTIFICATE



VACs RELATED DOCUMENTS

NCC & NSS

LIST OF STUDENTS ENROLLED

Enrolment Details of the Students

Date: 03/06/23.....

| SL NO | NAME | SIGNATURE |
|-------|-------------------|--------------------------------|
| 1. | OHIDA YEASMIN | Ohida yeasmin |
| 2. | RUMISA KHATUN | Rumisa khatun |
| 3. | SOUMI DAS | Soumi Das |
| 4. | SNEHA MONDAL | Saumi Das |
| 5. | ROJINA KHATUN | RoJina khatun. |
| 6. | MONIKA SHAW | Monika shaw |
| 7. | GARGI DUTTA | Gargi Dutta |
| 8. | SUDIPTA DAS | Sudipta Das |
| 9. | MISTU GHOSH | mistu Ghosh |
| 10. | ANNWESHA SARKAR | Annweshha Sarkar |
| 11. | SORIFA SULTANA | Sorifa Sultana |
| 12. | PRIYANKA KAHALGAN | Priyanka kahalgam |
| 13. | RINKI KHATUN | Rinki Khatun |
| 14. | AHASAN HABIB | Ahasan Habib |
| 15. | SANJENA KHATUN | Sanj Sanjena khatun |
| 16. | SALMA KHATUN | Salma khatun |
| 17. | YEASMIN SULTANA | Yeasmin Sultana |
| 18. | SAHINA SULTANA | Sahina sultana |
| 19. | MINU KHATUN | Minu khatun |
| 20. | TARMINA KHATUN | Tarmina khatun |
| 21. | ABHIJIT PRAMANIK | Abhijit Pramanik |
| 22. | RANA HALDER | Rana Halder |
| 23. | SHILPI KHATUN | Shilpi khatun |



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| 4. | SAHANAJ SULTANA | Sahanaj sultana |
| 5. | SABERA KHATUN | Sabera khatun |
| 16. | HAMIDA KHATUN | Hamida khatun |
| 27. | NAFISA SULTANA | NAFISA SULTANA |
| 28. | AOWLIA KHATUN | Aowlia khatun |
| 29. | SNEHA DAS | Sneha Das |
| 30. | NASIMA PARVIN | Nasima Parvin |
| 31. | ARINA KHATUN | Arina khatun |
| 32. | MABIA KHATUN | Mabia khatun |
| 33. | TOHOSIN KHATUN | Tohosin khatun |
| 34. | DILRUBA KHATUN | Dilruba khatun |
| 35. | NASRIN KHATUN | Nasrin khatun |
| 36. | RITON SHAIKH | Riton Shaikh |
| 37. | SUJATA KARMAKAR | Sujata karmakar |
| 38. | ANISHA KHATUN | Anisha khatun |
| 39. | PUJA MANDAL | Puja Mandal |
| 40. | NURJAHAN KHATUN | Nurjahan khatun |
| 41. | MONDIRA SAHA | Mondira saha |
| 42. | ASLEMA YEASMIN | Aslema yeasmin |
| 43. | SHIPRA DAS | Shipra Das |
| 44. | RIMPA SAHA | Rimpa Saha |
| 45. | NABANITA DAS | Nabanita Das |
| 46. | FULTUSHI KHATUN | Fultushi khatun |
| 47. | SUPRIYA SAHA | Supriya saha |
| 48. | SWAPNA RAJAK | Swapna Rajak |
| 49. | PRIYA PRAMANIK | Priya Pramanik |
| 50. | MINI MONDAL | mini mondal |
| 51. | ABIDA SULTANA | Abida sultana |
| 52. | MOULI SEN | Mouli Sen |
| 53. | RAKHI MANDAL | Rakhi mandal |
| 54. | SUSMITA MARDI | Susmita mardie |
| 55. | SUMANA DAS | Sumana Das |
| 56. | MAMATA GHOSH | Mamata Ghosh |



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| SUMITA DAS | Luvita Das |
| SRABANI MONDAL | Starbonki Mondal |
| APARNA MANDAL | Aparna Mandal |
| SUMI DAS | Sumit Das |
| SAMIM SK | Samim SK |
| AKASH GHOSH | Akash Ghosh |
| YEABUL SK | Yeabul SK |
| SAHIN AKTAR | Sahin Aktar |
| RAHUL GHOSH | Rahul Ghosh |
| MD GOLAM RABBANI | Md Golam Rabbani |
| SAHIB SK | Sahib SK |
| RAMU SARKAR | Ramu Sarkar |
| SAGAR SK | Sagar SK |
| ABDUL MOMIN SK | Abdul Momin SK |
| SAHIL SK | Sahil SK |
| MD SAHIL SK | Md. Sahil SK |
| ISMAIL SK | Ismail SK |
| 3. SOURAV SUTRADHAR | Sourav Sutradhar |
| 75. SOUVIK BISWAS | Souvik Biswas |
| 76. ANSARUL SHAIKH | Anuram Shaikh |
| 77. MAHARAM SK | Maharam SK |
| 78. MD MUSA | MD Musa |
| 79. BISHAL SK | Bishal SK |
| 80. AKBAR SK | Akbar SK |
| 81. FARHAN SEKH | Farhan Sekh |
| 82. SAKIRUL SK | Sakirul SK |
| 83. ANKIT HALDER | Ankit Halder |
| 84. NAIMUDDIN SK | Naimuddin SK |
| 85. BITTU SARKAR | Bittu Sarkar |
| 86. AMIR SK | Amir SK |
| 87. SAIEF AHAMMED | Saief Ahamed |
| 88. AMRIT GHOSH | Amrit GH. |
| 89. HASNAT SK | Hasnat SK |



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| 90. | SAHIN SK | Sahin SK |
| 91. | ABHIJIT GHOSH | Abhijit Ghosh |
| 92. | MD TAPAN SK | MD Tapan SK |
| 93. | ANIMESH DAS | Animesh Das |
| 94. | BISWAJIT MONDAL | Biswajit Mondal |
| 95. | IBRAHIM SK | Ibrahim SK |
| 96. | ASIK IKBAL | Asik Ikbal |
| 97. | SHUVOJIT MONDAL | Shuvojit Mondal |
| 98. | MD MOKTADDERUL HOSSAIN | Md Moktadderul Hossain |
| 99. | IMRAN SAIKH | Imran Saikh |
| 100. | EMRAN SHAIKH | Emran Shaikh |
| 101. | ANIMESH KANDARI | Animesh Kandari |
| 102. | JAKARIA HOSSAIN | Jakaria Hossain |
| 103. | SUJAY MONDAL | Sujay Mondal |
| 104. | TOHID SK | Tohid SK |
| 105. | AYAN SARKAR | Ayan Sarkar |
| 106. | SUBHAJIT DAS | Subhajit Das |
| 107. | MUSTAQUE AHMMED | Mustaque Ahmed |
| 108. | SOMNATH RAJAK | Somnath Rajak |
| 109. | DEBKANTA KUNDA | Debkanta Kunda |
| 110. | EASBAUL SHAIKH | Easbaul Shaikh |
| 111. | JUBAID SK | Jubaid SK |
| 112. | EKBAL SK | Ekbal SK |
| 113. | MAJIDUR RAHAMAN | Majidur Rahaman |
| 114. | ABHIJIT MAJHI | Abhijit Majhi |
| 115. | ALOK MAL | Alok Mal |
| 116. | MD AMAN HOQUE | Md Aman Hoque |
| 117. | RANAJIT MONDAL | Ranjit Mondal |
| 118. | SOUKAT ALI | Soukat Ali |
| 119. | SAHABUDDIN SK | Sahabuddin SK |
| 120. | SAMIR SK | Samir SK |
| 121. | JAMIRUL SK | Jamirul SK |
| 122. | ALI SHAIKH | Ali Shaikh |



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| 1. | BUBAI GHOSH | Buba Ghosh |
| 4. | SK JAHID HASAN | SK Jahid Hasan |
| 5. | BIJENDRA DAS | Bijendra Das |
| 6. | NURALIM SK | Nuralim SK |
| 7. | ASHAMUDDIN SK | Ashamuddin SK |
| 28. | SAHARUL SK | Saharul SK |
| 29. | PIPAN HALDER | Pipan Halder |
| 30. | MD GOLAM GAUSE SK | MD Golam Gause SK |
| 131. | HABIBUR RAHAMAN | Habibur Rahaman |
| 132. | PRASHANTA MONDAL | Prashanta Mondal |
| 133. | SHREYA DAS | Shreya Das |
| 134. | GANGA DAS | Ganga Das |
| 135. | SANCHITA MONDAL | Sanchita Mondal |
| 136. | SABNUR RAHAMAN | Sabnur Rahaman |
| 137. | SABANA YASMIN | Sabana Yasmin |
| 138. | JYOTI DAS | Jyoti Das |
| 139. | PANCHAMI HALDER | Panchami Halder |
| 140. | PAYEL HALDER | Payel Halder |
| 141. | SATHI GHOSH | Sathi Ghosh |
| 142. | JHUMA MONDAL | Jhuma Mondal |
| 143. | TITHI HALDER | Tithi Halder |
| 144. | RAKHI HALDER | Rakhi Halder |
| 145. | JAYA SINGHA | Jaya Singha |
| 146. | SANGITA MONDAL | Sangita Mondal |
| 147. | PAYEL DAS | Payel Das |
| 148. | MOUSUMI KHATUN | Mousumi Khatun |
| 149. | RITA GHOSH | Rita Ghosh |
| 150. | MUNMUN SARKAR | Munmun Sarkar |
| 151. | MANISHA HALDER | Manisha Halder |
| 152. | BELI KHATUN | Beli Khatun |
| 153. | FENSI KHATUN | Fensi Khatun |
| 154. | JESMIN KHATUN | Jesmin Khatun |
| 155. | ISHA PAL | Isha Pal |



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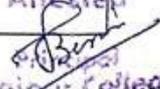
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| 6. | BIPASHA SARKAR | Bipasha Sarkar |
| 7. | SOMAIA PARVIN | Somaia Parvin |
| 8. | NIKITA DAS | Nikita Das |
| 59. | MUNMUN MONDAL | Munmun Mondal |
| 60. | SANJANA SARKAR | Sanjana Sarkar |
| 61. | ANINDITA DHAR | Anindita Dhar |
| 62. | PRIYA KARMAKAR | Priya Karmakar |
| 63. | ANUSHREE DAS | Anushree Das |
| 64. | ANUSRI MANDAL | Anushri Mandal |
| 65. | ISHA SAHA | Isha Saha |
| 166. | RIMPA DAS | Rimpa Das |
| 167. | AMRITA NANDA | Amrita Nanda |
| 168. | SNEHA ROY | Sneha Roy |
| 169. | SNIGDHA SARKAR | Snigdha Sarkar |
| 170. | PROGGA PAL | Progga Pal |
| 171. | JUI DAS | Jui Das |
| 172. | CHAYA KARMAKAR | Chaya Karmakar |
| 173. | MANISHA DAS | Manisha Das |
| 174. | SUJATA DAS | Sujata Das |
| 175. | SNEHA KHATUN | Sneha Khatun |
| 176. | PURNIMA SARAKAR | Purnima Sarakar |
| 177. | BARNALI DAS | Barnali Das |
| 178. | URMIKA DAS | Urmika Das |
| 179. | APARNA MONDAL | Aparna Mondal |
| 180. | BULTI SAHA | Bulti Saha |
| 181. | MONISHA DAS | Monisha Das |
| 182. | ANAMIKA SAHA | Anamika Saha |
| 183. | SAGARI BESRA | Sahari Besra |
| 184. | ADITI MONDAL | Aditi Mondal |
| 185. | RUPAM DAS | Rupam Das |
| 186. | IKBAL AHAMED | Iqbal Ahamed |
| 187. | SOUMITRA DAS | Soumitra Das |
| 188. | SAYAN MONDAL | Sayan Mondal |



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| 22. | PAPPU DAS | Pappu Das |
| 23. | ANKUR BHATTACHARJEE | Ankur Das |
| 24. | SAHANAJ KHATUN | Sahanaj Khatun |
| 25. | TAPANTANAY CHAKRABORTY | Tapantanay |
| 26. | ANIKET CHATTERJEE | Aniket Chatterjee |
| 227. | SUROJIT CHATTERJEE | Surojit Chatterjee |
| 228. | MD JAMILUSSIAM- | MD Jamilussam |
| 229. | ABIDA SULTANA | Abida Sultana |
| 230. | NURNESHA KHATUN | Nurnesha |
| 231. | SEBINA KHATUN | Sebina Khatun |
| 232. | TUSHAR DUTTA | Tushar Dutta |
| 233. | SAHEBA SULTANA | Sahaba Khatun |
| 234. | BHUMIKA PANDEY | Bhumika Pandey |
| 235. | SONIYA GHOSH | Soniya Ghosh |
| 236. | MOUSUMI KHATUN | Mousumi Khatun |
| 237. | REHENAJ KHATUN | Rehanaj Khatun |
| 238. | MOUMITA DAS | moumita Das |
| 239. | RIYA PRAMANIK | Riya Pramanik |
| 240. | BEAUTY KHATUN | Beauty Khatun |
| 241. | SAYEMA KHATUN | Sayema Khatun |
| 242. | BADSHAH SK | Badshah. SK |
| 243. | ABINASH DAS | Abinash. Das. |
| 244. | HAFIJUR RAHAMAN | Hafijur Rahaman |
| 245. | MARAFAT SK | Marafat SK |
| 246. | RIAJ AHMED | Riaj Ahmed |
| 247. | NASIARA KHATUN | Nasira Khatun |
| 248. | MUSLEMA KHATUN | Muslema Khatun |
| 249. | GOURI DAS | Gauri Das |
| 250. | ANIT HALDER | Anit Halder. |
| 251. | MRINMOY PAL | Mrinmoy Pal |
| 252. | PUSHPITA SAHA | Pushpita Saha |
| 253. | TARIKUL SHAIKH | Tarikul Shaikh |
| 254. | SURAJIT MANDAL | Surajit Mandal |



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| 5. | BABU KONAI | Babu Konai |
| 56. | SUGA KHATUN | Suga Khatun |
| 57. | MD. FAHIM SK | MD. Fahim sk |
| 58. | SULEKHA KHATUN | Sulekha Khatun |
| 59. | REBINA KHATUN | Rebina Khatun |
| 260. | MASUM SK | Masum SK |
| 261. | ARITRA DAS | Aritra Das |
| 262. | MILAN DAS | Milan Das |
| 263. | MANASHI MONDAL | Manashi Mondol |
| 264. | BIKRAM HALDER | Bikram Halder |
| 265. | ROJINA KHATUN | Rojina Khatun |
| 266. | SABA MONSUR | Saba Monsur. |
| 267. | SUBHASIS SINGHA | Subhasis Singh. |
| 268. | HASIBUL SK | Hasibul sk |
| 269. | ABU ABDULLAH MAMUN | Abu Abdullah Mamun. |
| 270. | HASIBUR RAHAMAN | Hasibur Rahman |
| 271. | SOUVIK CHATTERJEE | Sauvik Chatterjee |
| 272. | SOUMITRA DAS | Soumitra Das |
| 273. | SALEMA KHATUN | Salema Khatun |
| 274. | ANJARUL SK | Anjarul sk |
| 275. | RAMESH DAS | Ramesh Das |
| 276. | INJAMAMUL HOQUE | Injamam-ul-Hoque. |
| 277. | SAFIK SK | Safik sk |
| 278. | DIPIKA MANDAL | DiPIKA |
| 279. | SAMIM SK | Samim SK |
| 280. | AKASH GHOSH | Akash Ghosh |
| 281. | YEABUL SK | Yeabil sk. |
| 282. | SAHIN AKTAR | Sahin Aktar |
| 283. | RAHUL GHOSH | Rahul Ghosh. |
| 284. | MD GOLAM RABBANI | Golam Rabbani. |
| 285. | SAHIB SK | Sahib SK |
| 286. | RAMU SARKAR | Ramu Sarkar. |
| 287. | SAGAR SK | Sagar Sk. |



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| 288. | ABDUL MOMIN SK | Abdul monim SK |
| 289. | SAHIL SK | Sahil SK |
| 290. | MD SAHIL SK | MD Sahil SK |
| 291. | ISMAIL SK | Ismail SK |
| 292. | SOURAV SUTRADHAR | Sourav Sutradhar |
| 293. | SOUVIK BISWAS | Souvik Biswas |
| 294. | ANSARUL SHAIKH | Ansarul Shaikh |
| 295. | MAHARAM SK | Maharam SK |
| 296. | MD MUSA | MD Musa |
| 297. | BISHAL SK | Bishal SK |
| 298. | AKBAR SK | Akbar SK |
| 299. | FARHAN SEKH | Farhan Sekh |
| 300. | SAKIRUL SK | Sakirul SK |
| 301. | ANKIT HALDER | Ankit Halder |
| 302. | NAIMUDDIN SK | Naimuddin SK |
| 303. | BITTU SARKAR | Bittu Sarkar |
| 304. | AMIR SK | Amir SK |
| 305. | SAIEF AHAMMED | Amir SK |
| 306. | AMRIT GHOSH | Amrit Ghosh |
| 307. | HASNAT SK | Hasnat SK |
| 308. | SAHIN SK | Sahin SK |
| 309. | ABHIJIT GHOSH | Abhijit Ghosh |
| 310. | MD TAPAN SK | MD tapan SK |
| 311. | ANIMESH DAS | Animesh Das |
| 312. | BISWAJIT MONDAL | Biswajit mondal |
| 313. | IBRAHIM SK | Ibrahim SK |
| 314. | ASIK IKBAL | Asik Iqbal. |
| 315. | PUJA MANDAL | Puja Mondol |
| 316. | NURJAHAN KHATUN | Nurjahan Khatun |
| 317. | MONDIRA SAHA | Mondira Saha |
| 318. | ASLEMA YEASMIN | Aslema yesmin |
| 319. | SHIPRA DAS | Shipra Das |
| 320. | RIMPA SAHA | Rimpa Saha |



Attested
Principal
Jangipur College

| | | |
|-----|-----------------|------------------|
| 1. | NABANITA DAS | Nabanita Das. |
| 2. | FULTUSHI KHATUN | Fultushi Khatun. |
| 3. | SUPRIYA SAHA | Supriya Saha |
| 4. | SWAPNA RAJAK | Swapna Rajak |
| 5. | PRIYA PRAMANIK | Priya Pramanik |
| 6. | MINI MONDAL | Mini Mondal |
| 7. | ABIDA SULTANA | Abida Sultana - |
| 8. | MOULI SEN | Mouli Sen |
| 9. | RAKHI MANDAL | Rakhi Mondal. |
| 10. | SUSMITA MARDI | Susmita. Mardi |
| 11. | SUMANA DAS | Sumana Das |
| 12. | MAMATA GHOSH | Mamata Ghosh. |
| 13. | SUMITA DAS | Sumita Das |
| 14. | SRABANI MONDAL | Srabani Mondal |
| 15. | APARNA MANDAL | Aparna Mondal |
| 16. | SUMI DAS | Sumi Das |
| 17. | UJJAL SK | Ujjal SK |
| 18. | DEPENDU SARKAR | Dependu Sarkar. |
| 19. | SOHARAB ALI | Soharab Ali |
| 20. | KHURSIDA KHATUN | Khurside Khatun |
| 21. | SAHIN ALAM | Sahin Alam |
| 22. | INDRAJIT MANDAL | Indrajit Mondal |
| 23. | MD SALAUDDIN SK | Md. Salauddin SK |
| 24. | AMINUL SK | Aminul SK |
| 25. | SAYAN HALDER | Sayan Halder |
| 26. | SUDARSAN MONDAL | Sudarsan Mondal |
| 27. | MUBARAK SK | Mubarak SK |
| 28. | RAHUL SK | Rahul SK |
| 29. | SOMA DAS | Soma Das. |

S. Biswas,
Signature of NSS Programme Officer

Ry...
Signature of ANO

Poarthita Bhowmik
Principal
Jangipur College



Basudeb Chakrabarti.
IQAC Coordinator, Jangipur College
Dr. Basudeb Chakrabarti
Associate Professor in English &
IQAC Co-ordinator
Jangipur College
Principal/TIC, Jangipur College

22/06/23
27/06/23

COURSE MODULE

Jangipur College

presents

Value-Added Course (2022-2023)

on

Yoga as an Integrated Way of Life in Contemporary Education

by

NSS and NCC Units

Course Duration: 30 Hours (Blended Mode)

Concept Note:

A potent philosophy or a spiritual vision go beyond all 'academic' offerings to embrace a profound world of experience and well-being that transcends mere physical plane of existence. And such a key to a meaningful prosperousness is hatha yoga. It is a philosophic way of life rooted in ancient wisdom. Unfortunately, students are not often exposed to the depth and breadth of yoga as a holistic, integrative health practice. To maximise one's power of conscious manifestation, yoga works on the level of one's body, mind, emotion, and energy. The contemporary debates surrounding modern day conceptions of yoga investigates the origins of these traditions and how they came to be thought of and practised in the way they are today.

This Value Added Course on yoga will focus on the brief history and development of yoga, its fundamentals, the theoretical frameworks offered by the "practices of the self" (Foucault, 1990), the ideas and skills that can be applied to life in different time periods and social contexts by making new applications of yogic theories in life.

At the end of the course, the students will be successfully able to deconstruct the basic assumptions of our own culture and how contemporary notions of yoga can lead to a good life.

Course Objectives:

- To train the students to develop their body to live a healthy life
- Rejuvenate the life energy to achieve and sustain psycho-somatic agility
- Maintain a holistic wellness and positivity in day-to-day living

Course Module:

| Sl. No. | Date | Topic/Module | Teacher | Hours |
|---------|------------------------|---|---|----------|
| 1. | 05/06/23 & 06/06/23 | Know Your Body a. Basic knowledge of human body skeleton, organization of body cells, tissues, | Dr Nabanita Mukherjee, Assistant Professor and Head of the Department, | 04 hours |

| | | | | |
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| | | <p>systems, membranes and glands.</p> <p>b. Basic knowledge of Anatomy and Physiology of the following systems – Musculo-skeletal System, Digestive System, Respiratory System, Cardio Vascular System, Excretory System, Endocrine System & Nervous System.</p> | Department of Zoology | |
| 2. | 07/06/23 & 08/06/23 | <p>a. Foundation of Yoga: Etymology, definitions, aim, objectives & misconceptions;</p> <p>b. Yoga: origins, history, development.</p> <p>c. Definition of Hatha Yoga</p> | Sushendu Biswas, NSS Programme Officer | 04 hours |
| | 09/06/23 & 12/06/23 | <p>a. Yoga & Meditation: Yogic Vyayama &</p> <p>b. Surya Namaskar</p> <p>c. Education as a Means of Youth Empowerment - Simplified Physical Exercises – Yogasanas – Rules (Sun Salutation, Dandasana, Chakrasana, Vrichasana, Trikonasana, Vajrasana, Pranayama, Nadi Suddhi, Clearance Practice - Benefits</p> <p>d. Yoga – Mind Maps & Mental Health – Anatomy of the Self:</p> | Dr. Rajib Joardar, NCC, Programme Officer | 04 hours |

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| | | The intellect and the Sub-Conscious Mind. | | |
| 13/06/23 & 15/06/23 | | <p>a. Principles of Positive Thinking: External influences on Thoughts, Steps to change Cycle of Thinking.</p> <p>b. Skills & Relationship Management: Communication Skills – Body Language – Verbal & Non-Verbal Body Language.</p> <p>c. i. Life Force: Reasons for Diseases – Natural Reasons: Genetic, planetary positions, natural calamities and climatic changes; Unnatural Reasons : Food Habits, Thoughts, Deeds.</p> <p>c.ii. Maintaining Youthfulness, postponing old age, importance of food and a Healthy Diet.</p> | Dr. Prasenjit Mistry, Assistant Professor, Deptt. of Chemistry | 03 hours |
| 15/06/23 & 16/06/23 | | <p>a. Therapeutic Yoga: Introduction, Importance</p> <p>b. Restorative Yoga: Definition, Benefits for Mind & Body; Restorative Yoga Poses – Fish Pose, Child Pose, Legs-up-the-Wall Pose.</p> <p>c. Knowledge of Yogic Principles:</p> | Biplab Das, Assistant Professor, Deptt. of Sanskrit | 03 hours |

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| | | <p>c.i. Importance of Diet</p> <p>c.ii. Yoga as Preventive Health Care</p> <p>c.iii. Yoga Therapy for Mental Stress, Depression, Anxiety.</p> | | |
| 3. | 17/06/23 | <p>Audio-Visual Presentations from You Tube followed by demonstration and practice by the participants:</p> <p>Some important Asanas, Regulation of Breath (Pranayama), Meditation & its Benefits, Yoga Practices and Prevention of Lifestyle Disorders, Basics of Yoga Education, Videos on Anatomy, Physiology, Yogic Health;</p> | <p>Dr Nabanita Mukherjee, Assistant Professor and Head of the Department, Department of Zoology</p> | 02 hours |
| | 17/06/23 | <p>Videos on Relaxation Therapy for Body & Mind, De-Stress Program, Videos on Memory Enhancement, Attention & Concentration Enhancement, Anxiety & Pain Management, Audio-Visual Presentations on Insomnia Management, freedom from Worry, Anger Management & Enhancing Self Confidence.</p> | <p>Sushendu Biswas, NSS Programme Officer,</p> | 02 hours |
| | 19/06/23 | | <p>Biplab Das, Assistant Professor, Deptt. of Sanskrit,</p> | 02 hours |
| | 19/06/23 | | <p>Dr. Prasenjit Mistry, Assistant Professor, Deptt. of Chemistry &</p> | 02 hours |
| | 21/06/23 | | <p>Dr. Rajib Joardar, NCC, Programme Officer</p> | 02 hours |
| 4. | 21/06/23 | <p>i. Valedictory Session</p> <p>ii. Evaluation & Certificate Distribution</p> | <p>1. Sushendu Biswas, NSS Programme Officer.</p> | 02 hours |

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| | | | 2.Biplab Das, Assistant Professor, Deptt. of Sanskrit. | |
|--|--|--|---|--|



SPECIMEN CERTIFICATE



VACs RELATED DOCUMENTS

SANSKRIT & PHILOSOPHY

FLYER



JANGIPUR COLLEGE

NAAC ACCREDITED B++

EMS (ISO 14001:2015) CERTIFIED

DEPARTMENT OF PHILOSOPHY & SANSKRIT

OFFERS ONLINE VALUE-ADDED COURSE ON INDIAN KNOWLEDGE SYSTEM: AN INTRODUCTION

COURSE DURATION- 30 HOURS

FROM 12.04.2023-20.05.2023

LAST DATE OF REGISTRATION:- 11.04.2023

ONLINE CERTIFICATE WILL BE PROVIDED AFTER SUCCESSFUL COMPLETION OF THE COURSE

LIST OF STUDENTS ENROLLED

Value – added Course

Department of Philosophy & Sanskrit

Topic: Indian Knowledge System: An Introduction

Session: 2022-2023

Duration: 30 Hours

Enrollment Details of the Students

| Sl No | Name | Department | Signature of the Students |
|-------|----------------|------------|---------------------------|
| 1 | BIPASHA SARKAR | Sanskrit | Bipasha Sarkar |
| 2 | SOMAIA PARVIN | Sanskrit | Somaia Parvin |
| 3 | NIKITA DAS | Sanskrit | Nikita Das |
| 4 | MUNMUN MONDAL | Sanskrit | Munmun Mondal |
| 5 | SANJANA SARKAR | Sanskrit | Sanjana Sarkar |
| 6 | ANINDITA DHAR | Sanskrit | Anindita Dhar |
| 7 | PRIYA KARMAKAR | Sanskrit | Priya Karமாகar |
| 8 | ANUSHREE DAS | Sanskrit | Anushree Das |
| 9 | ANUSRI MANDAL | Sanskrit | Anusri Mandal |
| 10 | ISHA SAHA | Sanskrit | Isha Saha |
| 11 | RIMPA DAS | Sanskrit | Rimpa Das |
| 12 | AMRITA NANDA | Sanskrit | Amrita Nanda |
| 13 | SNEHA ROY | Sanskrit | Sneha Roy |
| 14 | SNIGDHA SARKAR | Sanskrit | Snigdha Sarkar |
| 15 | PROGGA PAL | Sanskrit | Progga Pal |
| 16 | JUI DAS | Sanskrit | Jui Das |
| 17 | CHAYA KARMAKAR | Sanskrit | Chaya Karமாகar |
| 18 | MANISHA DAS | Sanskrit | Manisha Das |
| 19 | SUJATA DAS | Sanskrit | Sujata Das |
| 20 | SNEHA KHATUN | Sanskrit | Sneha Khatun |
| 21 | PURNIMA SARKAR | Sanskrit | Purnima Sarkar |
| 22 | BARNALI DAS | Sanskrit | Barnali Das |
| 23 | URMIKA DAS | Sanskrit | Urmika Das |
| 24 | APARNA MONDAL | Sanskrit | Aparna Mondal |
| 25 | BULTI SAHA | Sanskrit | Bulti Saha |
| 26 | MONISHA DAS | Sanskrit | Monisha Das |
| 27 | ANAMIKA SAHA | Sanskrit | Anamika Saha |
| 28 | SAGARI BESRA | Sanskrit | Sagari Besra |
| 29 | ADITI MONDAL | Sanskrit | Aditi Mondal |
| 30 | Ohida Yeasmin | Sanskrit | Ohida Yeasmin |
| 31 | Rumisa Khatun | Sanskrit | Rumisa Khatun |
| 32 | Soumi Das | Sanskrit | Soumi Das |
| 33 | Sneha Mondal | Philosophy | Sneha Mondal |
| 34 | Rojina Khatun | Philosophy | Rojina Khatun |
| 35 | Monika Shaw | Philosophy | Monika Shaw |

Biplab Das
Head
Department of Sanskrit
Jangipur College

Principal
Jangipur College

HOD
Dept. of Philosophy
Jangipur College

| | | | |
|----|--------------------|------------|--------------------|
| 36 | Gargi Dutta | Philosophy | Gargi Dutta |
| 37 | Sudipta Das | Philosophy | Sudipta Das |
| 38 | Mistu Ghosh | Philosophy | Mistu Ghosh |
| 39 | Annwasha Sarkar | Philosophy | Annwasha Sarkar |
| 40 | Sorifa Sultana | Philosophy | Sorifa Sultana |
| 41 | Priyanka Kahalgan | Philosophy | Priyanka Kahalgan |
| 42 | Rinki Khatun | Philosophy | Rinki Khatun |
| 43 | Ahasan Habib | Philosophy | Ahasan Habib |
| 44 | Sanjena Khatun | Philosophy | Sanjena Khatun |
| 45 | Salma Khatun | Philosophy | Salma Khatun |
| 46 | Yeasmin Sultana | Philosophy | Yeasmin Sultana |
| 47 | Sahina Sultana | Philosophy | Sahina Sultana |
| 48 | Minu Khatun | Philosophy | Minu Khatun |
| 49 | Tarmina Khatun | Philosophy | Tarmina Khatun |
| 50 | Abhijit Pramanik | Philosophy | Abhijit Pramanik |
| 51 | Rana Halder | Philosophy | Rana Halder |
| 52 | Shilpi Khatun | Philosophy | Shilpi Khatun |
| 53 | Sahanaj Sultana | Philosophy | Sahanaj Sultana |
| 54 | Sabera Khatun | Philosophy | Sabera Khatun |
| 55 | Hamida Khatun | Philosophy | Hamida Khatun |
| 56 | Nafisa Sultana | Philosophy | Nafisa Sultana |
| 57 | Aowlia Khatun | Philosophy | Aowlia Khatun |
| 58 | Sneha Das | Philosophy | Sneha Das |
| 59 | Nasima Parvin | Philosophy | Nasima Parvin |
| 60 | Arina Khatun | Philosophy | Arina Khatun |
| 61 | Mabia Khatun | Philosophy | Mabia Khatun |
| 62 | Tohosin Khatun | Philosophy | Tohosin Khatun |
| 63 | Nasrin Khatun | Philosophy | Nasrin Khatun |
| 64 | Dilruba Khatun | Philosophy | Dilruba Khatun |
| 65 | Riton Shaikh | Philosophy | Riton Shaikh |
| 66 | Sujata Karmakar | Philosophy | Sujata Karmakar |
| 67 | Anisha Khatun | Philosophy | Anisha Khatun |
| 68 | JYOTI MONDAL | Philosophy | JYOTI MONDAL |
| 69 | KAJAL RABIDAS | Philosophy | KAJAL RABIDAS |
| 70 | KARISHMA SULTANA | Philosophy | KARISHMA SULTANA |
| 71 | KHADIIJA KHATUN | Philosophy | KHADIIJA KHATUN |
| 72 | MAITRAYE DAS | Philosophy | MAITRAYE DAS |
| 73 | MAMPI MONDAL | Philosophy | MAMPI MONDAL |
| 74 | MANJIRA KHATUN | Philosophy | MANJIRA KHATUN |
| 75 | MANJURA KHATUN | Philosophy | MANJURA KHATUN |
| 76 | MASADUI ALAM | Philosophy | MASADUI ALAM |
| 77 | MASRURA KHATUN | Philosophy | MASRURA KHATUN |
| 78 | MD MASIUR RAHAMAN | Philosophy | MD MASIUR RAHAMAN |
| 79 | MEHERUNNESH KHATUN | Philosophy | MEHERUNNESH KHATUN |
| 80 | MII DAS | Philosophy | MII DAS |
| 81 | MUNIARA BEGAM | Philosophy | MUNIARA BEGAM |
| 82 | MUSKAN PARVEEN | Philosophy | MUSKAN PARVEEN |
| 83 | NADIRA KHATUN | Philosophy | NADIRA KHATUN |

Biplab Das.
Head
Department of Sanskrit
Jangipur College


Principal
Jangipur College

R. Mishra
HOD
Dept. of Philosophy
Jangipur College

| | | | |
|----|----------------|------------|----------------|
| 84 | NAIRIN SULTANA | Philosophy | Nairin Sultana |
| 85 | NASIM SK | Philosophy | Nasim SK |
| 86 | NASRIN PARVIN | Philosophy | Nasrin Parvin |
| 87 | NASRIN SULTANA | Philosophy | Nasrin Sultana |

Boiptob Des.
Head
Department of Sanskrit
Jangipur College

R. K. Mitra
HOD
Dept. of Philosop.
Jangipur College


Principal
Jangipur College

COURSE MODULE

Course Details

Course Name- Indian Knowledge System: An Introduction

Duration: 30 hours

Eligibility Criterion: present BA Students

Intake Capacity: 100

Starting Date:12.04.2023

Closing Date:20.05.2023

Registration Date:- 01.04.2023-11.04.2023

Mode: Blended

Date of Viva Voce and Certificate issue: 01.06.2023 (after successfully completing the course a certificate will be provided)

About the Course

The term 'knowledge' take in it's literal and Philosophical sense. Theory and practice both are involved in Indian tradition. Indian manuscripts deals with *jñāna*, *vijñāna* and *jivan darshan*. The significance of knowledge system will be addressed from Indian perspective. So that the purpose of getting knowledge will be achieved. In this course the nature of knowledge will be discussed.

Value Added Course
organized by Department of Philosophy and Sanskrit
Session 2022-2023
on
Indian Knowledge System : An Introduction

Fundamental tenets of knowledge system in accordance with Vedanta- Ranita Mitra
Relevance of Ignorance in the context of epistemology- Biplob Das
Basic concepts of Indian Knowledge system- Haripada Rath
Significance of *andhakāra* as tenth substance- Sampa Pal
Relevance of different ways of knowing- Prosenjit Das
Philosophical Significance of the term 'knowledge'- Ashim Das
The nature and social organization of knowledge in Indian Tradition-Selina Khatun
Concept of knowledge in traditional manuscripts- Sighra Rajbanshi

About the Course

The term 'knowledge' take in it's literal and Philosophical sense. Theory and practice both are involved in Indian tradition. Indian manuscripts deals with *jñāna*, *vijñāna* and *jivan darshan*. The significance of knowledge system will be addressed from Indian perspective. So that the purpose of getting knowledge will be achieved. In this course the nature of knowledge will be discussed.

SPECIMEN CERTIFICATE



**JANGIPUR COLLEGE
UNIVERSITY OF KALYANI
CERTIFICATE ON COMPLETION
proudly presented to**

.....
For Successfully completing the Value Added Course on "Indian Knowledge System: An Introduction" conducted by
Department of Philosophy and Sanskrit, Jangipur College of 30 hours (12.04.2023-20.05.2023)

.....
Dr. Naba Kumar Ghosh Teacher-in-Charge

Coordinator

.....
Dr. Basudeb Chakrabarty IQAC

VACs RELATED DOCUMENTS

ZOOLOGY & BOTANY

FLYER

JANGIPUR COLLEGE
(NAAC ACCREDITED
B++)

DEPARTMENT OF
BOTANY & ZOOLOGY

OFFERS

Value - added Course on Environmental Biotechnology

**Explore the world
of environmental
biotechnology with
us.**

GAIN VALUE ADDED
ENVIRONMENTAL BIOTECH
SKILLS IN JUST 30 HOURS.

*For further queries please contact H.O.D. of
Botany & Zoology

**LAST
DATE FOR
REGISTRA
TION:
27TH
JANUARY,
2023**



ABOUT THE COURSE:

THIS PAPER ENCAPSULATES AN UNBIASED EXPLORATION INTO LEVERAGING BIOTECHNOLOGICAL EXPERTISE TO ADDRESS PRESSING ENVIRONMENTAL CHALLENGES. IT INITIATES WITH FOUNDATIONAL INSIGHTS INTO MOLECULAR BIOLOGY, SEAMLESSLY TRANSITIONING TO PRACTICAL METHODOLOGIES AND CUTTING-EDGE TECHNIQUES.



COURSE DETAILS:

- COURSE NAME: ENVIRONMENTAL BIOTECHNOLOGY
- COURSE TYPE: CERTIFICATE
- DURATION: 30 HOURS
- ELIGIBILITY CRITERIA: PRESENT B.SC. STUDENTS OF THIS COLLEGE
- INTAKE CAPACITY: 30
- INTAKE METHOD: FIRST COME FIRST SERVE
- STARTING DATE: 1ST FEBRUARY, 2023
- END DATE: 29TH APRIL, 2023
- LAST DATE FOR REGISTRATION: 27TH JANUARY, 2023
- VENUE: DEPARTMENT OF BOTANY (LAB 1) & DEPARTMENT OF ZOOLOGY (LAB 1), JANGIPUR COLLEGE
- EXAM DATE: 29TH APRIL, 2023
- AFTER SUCCESSFULLY COMPLETING THE COURSE, A CERTIFICATE WILL BE PROVIDED
- 75% ATTENDANCE IN THE CLASS IS MANDATORY
- MODE: OFFLINE

LIST OF STUDENTS ENROLLED

Value-added Course

Department of Zoology and Botany

Topic: Environmental Biotechnology

Duration: 30hours

(01.02.2023 to 29.04.2023)

Enrollment Details of the students

Date:

| Sl. No | Name | Department | Signature |
|--------|--------------------|------------|--------------------|
| 1. | ROHIT KAPURI | Botany | Rohit Kapuri |
| 2. | ANUJ DAS | Botany | Anuj Das |
| 3. | ANINDYA BARIK | Botany | Anindya Barik |
| 4. | SOUMYADIPTA BOSE | Botany | Soumyadiptra Bose |
| 5. | SOUMYABRATA PODDAR | Botany | Soumyabrata Poddar |
| 6. | ANKAN GHOSH | Botany | Ankan Ghosh |
| 7. | SUDIP BANIK | Botany | Sudip Banik |
| 8. | APURBA PRASAD SEN | Botany | Apurba Prasad Sen |
| 9. | SURAIYA ALAM | Botany | Suraiya Alam |
| 10. | WASHIMA RAHAMAN | Botany | Washima Rahaman |
| 11. | SALMA SULTANA | Botany | Salma Sultana |
| 12. | KINGSUK DAS | Botany | Kingsuk Das |
| 13. | MOUMITA SARKAR | Botany | Moumita Sarkar |
| 14. | AYESHA SULTANA | Zoology | Ayesha Sultana |
| 15. | PRATYUSHA SAHA | Zoology | Pratyusha Saha |
| 16. | SUNAYANA BARALA | Zoology | Sunayana Barala |
| 17. | TAPATI DAS | Zoology | Tapati Das |
| 18. | TITHI SAHA | Zoology | Tithi Saha |
| 19. | MONODEEP MONDAL | Zoology | Monodeep Mondal |
| 20. | MURSALIN BISWAS | Zoology | Mursalina Biswas |
| 21. | SUBHAJIT MONDAL | Zoology | Subhajit Mondal |
| 22. | SYED FARID AKHTAR | Zoology | Syed Farid Akhtar |
| 23. | AZIZA SULTANA | Zoology | Aziza Sultana |



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COURSE MODULE

COURSE ALLOCATION

JANGIPUR COLLEGE

VALUE ADDED COURSE FOR UG 2022-23

ENVIRONMENTAL BIOTECHNOLOGY

COURSE CONDUCTED BY DEPARTMENT OF BOTANY & ZOOLOGY

Preface: This paper encapsulates an unbiased exploration into leveraging biotechnological expertise to address pressing environmental challenges. It initiates with foundational insights into molecular biology, seamlessly transitioning to practical methodologies and cutting-edge techniques.

| SL. No. | COURSE DETAILS: Semester VI | Name of Teachers | No. of Lectures |
|---------|---|------------------|-----------------|
| Unit 1: | The Structure and Function of DNA, RNA and Protein DNA: Concept of B, A, C, D, T & Z DNA; physical properties of DNA like UV absorption spectra, denaturation and renaturation kinetics; biological significance of different forms; Synthesis (major molecular events and recent discoveries). Practical Demonstration : Based on theoretical concepts | NM | 1 lecture |
| | RNA: Concept on rRNA, mRNA, tRNA; SnRNA, Si RNA, miRNA and hnRNA; biological significance of different types of RNA; synthesis (major molecular events and recent discoveries), Brief concept on NGS. Practical Demonstration : Based on theoretical concepts | NM | 2 lectures |
| | Protein: hierarchical structure (primary, secondary, tertiary, quaternary) (major molecular events and recent discoveries), types of amino acids (with the concept of pH, pKa and polarity); posttranslational modifications and their significance; synthesis; types and their role: structural, functional (enzymes) (major molecular events and recent discoveries). Practical Demonstration : Based on theoretical concepts | NM | 3 lectures |
| | Virus and bacterial genomes, organelle genome, architecture of mitochondrial genome, conserved | SK | 2 lectures |

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|----------------|---|----|------------|
| | chloroplast DNA, organization and nature of nuclear DNA in eukaryotes; mobile DNA; pseudogenes, segmental duplications. Practical Demonstration : Based on theoretical concepts | | |
| Unit 2: | Recombinant DNA Technology Recombinant DNA: origin and current status; steps of preparation; Practical Demonstration : Based on theoretical concepts | SM | 2 lectures |
| | Toolkit of enzymes for manipulation of DNA: restriction enzymes, polymerases (DNA/RNA polymerases, transferase, reverse transcriptase), other DNA modifying enzymes (nucleases, ligase, phosphatases, polynucleotide kinase); Practical Demonstration : Based on theoretical concepts | SM | 2 lectures |
| | Genomic and cDNA libraries: construction, screening and uses Practical Demonstration : Based on theoretical concepts | SM | 2 lectures |
| | Cloning and expression vectors (plasmids, bacteriophage, phagmids, cosmids, artificial chromosomes; nucleic acid microarrays Practical Demonstration : Based on theoretical concepts | SK | 2 lectures |
| Unit 3: | Ecological restoration and bioremediation Treatment schemes for waste water: dairy, distillery, tannery, sugar, antibiotic industries; Practical Demonstration : Based on theoretical concepts | CC | 2 lectures |
| | Solid waste treatment: sources and management (composting, vermiculture and methane production, landfill. hazardous waste treatment); Practical Demonstration : Based on theoretical concepts | CC | 2 lectures |
| | Specific bioremediation technologies: land farming, prepared beds, biopiles, bioventing, biosparging, pump and treat method, constructed wetlands; phytoremediation; remediation of degraded ecosystems; advantages and disadvantages; degradation of xenobiotics in environment; Practical Demonstration : Based on theoretical concepts | CC | 2 lectures |

| | | | |
|----------------|---|-----|------------|
| | <p>21 decay behavior and degradative plasmids, hydrocarbons, substituted hydrocarbons, oil pollution, surfactants, pesticides, heavy metals degradative pathways.</p> <p>Practical Demonstration : Based on theoretical concepts</p> | SK | 2 lectures |
| Unit 4: | <p>Ecologically safe products and processes</p> <p>PGPR bacteria: biofertilizers, microbial insecticides and pesticides, bio-control of plant pathogen, Integrated pest management; development of stress tolerant plants, biofuel; mining and metal biotechnology: microbial transformation, accumulation and concentration of metals, metal leaching, extraction; exploitation of microbes in copper and uranium extraction.</p> <p>Practical Demonstration : Based on theoretical concepts</p> | AKM | 4 lectures |

NM- Nabanita Mukherjee, SM- Soumya Mukherjee, CC- Chumki Chowdhury, SK- Suman Karmakar, AKM- Anup Kumar Mandal

SPECIMEN CERTIFICATE

JANGIPUR COLLEGE
University of Kalyani

CERTIFICATE

OF COMPLETION

proudly presented to

XYZ

*for successfully completing the Valua Added course
on Environmental Biotechnology conducted by Department of
Botany & Zoology, Jangipur College of 30 hours (1st February
2023 to 29th April 2023)*

Naba Kumar Ghosh

DR. NABA KUMAR GHOSH
Teacher- in-Charge



Basudeb Chakrabarti

DR. BASUDEB CHAKRABARTI
IQAC Coordinator

