

Affiliated by Dibrugarh University

Supporting Documents for NAAC Self Study Report (SSR) (3rd Cycle)

Period: 2017-2022

Criterion 5	Key Indicator: 5.1	
Student Support and Progression	Student Support	
Metric Number: 5.1.3	Students Benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years	

Prepared and submitted by Jorhat Kendriya Mahavidyalaya



Submitted To





NAAC

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL



Pranjal DuttaCoordinator, IQAC



Principal Jorhat Kendriya Mahavidyalaya Kenduguri, Jorhat-10



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Name of the Event	Add-on Course: Bioinformatics
Organized By	Dept. of Botany, JKM
Date	02-05-2022
No. of Participants	16

Syllabus of the Course

Six months Add on certificate course on "Bioinformatics" introduced by Botany Department, Jorhat Kendriya Mahavidyalaya

Course Syllabus

Total Credit: 18

Unit Element		Element Topic	
1.	Fundamentals of bioinformatics	Introduction History and scope of bioinformatics. Branches of Bioinformatics Sources of information Internet world wide web and web browsers Genomics Transcriptomics.	·2
Biological Databases		Introduction to Biological Databases Classification of biological databases Basic concepts of primary and secondary databases Biological Databases Retrieval System Data mining and data mining tools (ENTREZ).	2
3.	Biological sequence database	1. National Center for Biotechnology Information (NCBI): Tools and Databases of NCBI, Database Retrieval Tool, Sequence Submission to NCBI. 2. EMBL Nucleotide Sequence Database (ENA): Introduction, Sequence Retrieval, Sequence Submission to EMBL, Sequence analysis tools. 3. DNA Data Bank of Japan (DDBJ): Introduction, Resources at DDBJ, Data Submission at DDBJ. 4. Swiss-Prot: Introduction and Salient Features. 5. Small molecule databases (Chemspider, Drug Bank, ZINC)	2
Basic concept of Sequence Alignments		 Introduction, Concept of Alignment Pairwise sequence alignment (PSA) Multiple Sequence Alignment (MSA), MSA by CLUSTALW Methods of Sequence Alignment. Tools of sequence alignment - FASTA and BLAST 	2
5.	Phylogenetic analysis	Basic concept Phylogenetic tree	2

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Coordinator, IQAC



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Syllabus of the Course

Unit	Element	Topic	Credi
Ciiit	Escarent	Steps in evaluation of phylogeny and constructing phylogenetic trees. Mehods of phylogenetic tree Construction.	
Fq.	Applications of Bioinformatics	Application of bioinformatics Drug design and development Molecular Docking, Application in plant science Pharmacology (ADME and Toxicity prediction)	2
-	7 Practical Classes		6

Practical Classes on Tea Processing.

Credit: 6

- Retrieval of nucleotide and protein sequences from the databases
- Pair-wise alignment of sequences (BLAST)
 Multiple sequence Alignment (CLUSTALW)
- Phylogenic tree Construction Predict of 3-D structure of protein
- Molecular docking ADMET Prediction

Mrs Pinaki Hazarika

Department of Botany

Bhaskott Kalit

Mr Bhaskor Kolita

Coordinator

Bioinformatics

REB

Mrs Rashmi Rekha Borah

Assistant Professor

Department of Botany

Simply Bord Ms Dimplly Borah

Coordinator

Bioinformatics

Principal

Jorhat Kendriya Mahavidyalaya

Principal

Torhat Kendriya Mahavidyalaya Kenduguri, Jorhat-10

Pranjal Dutta Coordinator, IQAC



Kenduguri, Jorhat-10



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LIST OF STUDENTS OF THE COURSE

List of Students for

Add-on course:- Bioinformatics

The second second	Name of Students:	Roll No:	Semester:	Subject of Add-on Course(Choose only One Course)
	Supreeti Bordoloi	25	B.Sc. 4th semester	Bioinformatics (For Botany Students)
	Vishal Keisam	56	6th	Bioinformatics (For Botany Students)
4	Suraj Borah	23	2nd Sem.	Bioinformatics (For Botany Students)
	Durlov Das	1	6th semester	Bioinformatics (For Botany Students)
	Durlov Das	1	6th	Bioinformatics (For Botany Students)
	Satyaranjan Bora	68	6th semester	Bioinformatics (For Botany Students)
	Aslesha Borbaruah	36	4th sem	Bioinformatics (For Botany Students)
	Masuma Begum	20	4 th semester	Bioinformatics (For Botany Students)

Jorhat Kendriya Mahavidyalaya

Pranjal Dutta Coordinator, IQAC



at Kendriya Mahavidyalaya Kenduguri, Jorhat-10



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LIST OF STUDENTS OF THE COURSE

Add on Certificate Course on Bioinformatics Department of Botany Jorhat Kendriya Mahavidyalaya

. List of Students

Sl. no	Name	Semester	Roll No	I D
1.	Dibyajyoti Sahu	6 th	IXOII IXO	Department
2.	Priam Baruah	6 th	07	Zoology
3.	Durlov Das	6 th	07	Zoology
4.	Sayaranjan Bora	6 th	01	Zoology
5.	Vishal Keisam		68	Zoology
6.		6 th	56	Zoology
7.	Durna Jyoti Saikia	6 th	12	Zoology
	Koustov Jyoti Saikia	6 th	37	Chemistry
8.	Baishnab Loying	6 th	02	Chemistry
9.	Bharat Gogoi	6 th	39	Zoology
10.	Nilom Jyoti Lahon	6 th	66	Botany
11.	Susasnta Jyoti Saikia	6 th	63	
12.	Farnaz Yasmin Ahmed	6 th		Botany
13.	Punam Priya Hazarika	6 th	78	Botany
14.			65	Botany
	Amar Jyoti Saikia	6 th	47	Botany
15.	Nandita Harizan	6 th	59	Botany
16.	Ezazur Hussain	6 th	79	Botany

B. Class Routine

Day	Time		
Tuesday	12.00pm		
Thursday	12:00 pm		
Saturday	2:00 pm		

RRP

Assistant Professor, Department of Botany

BhaskorKolita

Bioinformatics Certificate Course

Dimplly Borah

Coordinator

Bioinformatics Certificate Course

Pranjal Dutta Coordinator, IQAC



Kenduguri, Jorhat-10