



H.K.E. SOCIETY'S
SMT. VEERAMMA GANGASIRI COLLEGE FOR
WOMEN, GULBARGA - 585 102
NAAC- ACCREDITED "A" GRADE (3rd Cycle)
Affiliated to Akkamahadevi Women's University, Vijayapura



Report on

Value Added Course

in

BIO INFORMATICS

Organized by

Department of Microbiology

From 2nd June to 2nd July 2022



H.K.E SOCIETY,S
SMT. VEERAMMA GANGASIRI DEGREE COLLEGE
FOR WOMEN, KALABURAGI -585102
NAAC- ACCREDITED "A" GRADE (3'd Cycle)
Affiliated to Akkamahadevi Women's University, Vijayapur



Ref. No.HKES/SVGWCK/

Date: 14/02/19

ORDER

Sub: Meeting of board of studies members.

A meeting of the following BOS constituted is here by convened on 14th Feb 2019 at 11:30 am in the department of Microbiology, Smt V.G Degree College for women, Kalaburagi

BOARD OF APPOINTMENT OF BOS MEMEBRS FOR CERTIFICATE COURSE IN
BIOINFORMATICS

1.	Dr. Chandrakanth.Kelamani Chairman, Dept of Biotechnology, GUK	BOS Chairman
2.	Dr. Mohan Reddy Dept of Biotechnology, GUK	Resource person
3.	Dr. Basavarajeshwari. S. Awanti HOD, Dept of Biotechnology, V.G. Degree college for women, KLB	Member and Course Co-coordinator
4.	Dr. Sharada Beknal, Assoc. Prof HOD Dept of Microbiology, V.G. Degree college for women, KLB	Member
5.	Dr. Sumangala Deshmukh, Assoc. Prof Dept of Microbiology, V.G. Degree college for women, KLB	Member
6.	Smt. Mangala Biradar, Lab Technician Dept of Biotechnology, V.G. Degree college for women, KLB	Member
7.	Smt. Shilpa Bandrad, Lecturer Dept of Biotechnology, V.G. Degree college for women, KLB	Member

The chairman and the members are requested to make it convenient to attend the meeting

To,

All the above concerned

Copt to: Dept of Microbiology, Dept of Biotechnology, IQAC Office
Office copy

Course Coordinator

S.G. Gounbali

IQAC Coordinator
Smt. Veeramma Gangasiri
College for Women
Kalaburagi - 585 102

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KALABURAGI.

Bioinformatics Syllabus for 30 days Certificate course



- I) **Introduction to Bioinformatics and its terminology** 2 hrs
History, definitions and important keywords or terms used in bioinformatics, Boolean operators
- II) **Description of Primary and Secondary biological databases** 2 hrs
NCBI, EMBL, DDBJ, INSDC, UniProt, PIR, PDB and other pathway databases like KEGG, Reactome, pfam, STRING etc.
- III) **Data retrieval and data mining for major biological information** 3 hrs
Entrez of NCBI, Data retrieval procedures and file format differentiation etc.
- IV) **Tools and software of bioinformatics used for biological information and its access** 4 hrs
BLAST, CLUSTAL W, Phylogenetic analysis, PyMol, Python, SMS, Primer designing by PRIMER3,
- V) **Major differences between genomics and proteomic databases and their importance for drug discovery** 5 hrs
PubChem, NCBI compounds, eDrug3D, ExPASy, PatchDock, Drug docking studies, Inteface residue studies.
- VI) **Protein-protein interactions and its role in designing the protein based inhibitors (drugs) for target diseases.** 5 hrs
Annotations, Literature annotations, computational annotations, finding functional relationships among protein interaction subsets for designing protein-based inhibitors. Selection of target disease and mini project handling.

Practicals

- Alignment studies by BLAST, CLUSTAL Omega, CLUSTAL X 3 hrs
- Protein structure prediction by Homology modelling and Comparative modelling using both offline (Easy Modeller) and online (Swiss Modeller) 3 hrs
- Protein-protein based interactions and docking by Patchdock, Z dock and other servers. Protein based drug designing. 4 hrs

References

S. G. Gounkatti
IQAC Coordinator
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Books

1. Venkatarajan Mathura, Pandjassarame Kanguane-Bioinformatics - A Concept-Based Introduction-Springer (2009)
2. David W. Mount-Bioinformatics (Sequence and Genome Analysis), Cold Spring Harbor Laboratory Press; 2nd edition (August 16, 2004).
3. Paul G. Higgs, Teresa K. Attwood-Bioinformatics and Molecular Evolution-Wiley-Blackwell (2005)
4. James Tisdall-Beginning perl for bioinformatics-O'Reilly (2001)
5. Raquell M. Holmes-A Cell Biologist's Guide to Modeling and Bioinformatics-Wiley-Liss (2007)

Links

1. <http://www.ncbi.nlm.nih.gov/>
 2. <https://blast.ncbi.nlm.nih.gov/Blast.cgi>
 3. <http://www.embl.org/>
 4. <https://www.ddbj.nig.ac.jp/>
 5. <https://www.uniprot.org/>
- Many links are available for accessing

S. G. Gounbali

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List of students attended Value added on BIO-INFORMATICS from 02-06-2022
to 02-07-2022

Sl. No	Reg. No	Name
1.	S1916004	Aishwarya G
2.	S1916005	Aishwarya R
3.	S1916006	Aishwarya S
4.	S1916011	Aliza Ahmed
5.	S1916013	Ambika
6.	S1916023	Anjali
7.	S1916031	Arjumand Banu
8.	S1916043	Bhagyashree S
9.	S1916062	Deepali
10.	S1916068	Gouri B
11.	S1916072	Haleema Kausar
12.	S1916075	Huda Tahseen
13.	S1916097	Moksha B.N
14.	S1916105	Neelofor Begum
15.	S1916108	Neha Nousheen
16.	S1916120	Pallavi Mantri
17.	S1916124	Pavitra
18.	S1916138	Qaiser Jahan
19.	S1916148	Reeta
20.	S1916149	Renuka
21.	S1916153	Sadiya Begum
22.	S1916154	Safura Jabeen
23.	S1916157	Sajeeda Tabasum
24.	S1916159	Sana
25.	S1916162	Saniya Muskan
26.	S1916164	Saniya Tahseen
27.	S1916165	Sanjana
28.	S1916169	Shaista Talat
29.	S1916180	Shreya
30.	S1916202	Subhadra H
31.	S1916208	Supriya
32.	S1916213	Syeda Javeriya Nadaf

S.G. Gounbali

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33.	S1916215	Syeda Maheen Fatima
34.	S1916224	Umm E Haani
35.	S1916227	Urmath jahan
36.	S1916237	Zeenathurnisa
37.	S1916015	Ameena Tabasum
38.	S1916027	Anukshita
39.	S1916029	Apoorva
40.	S1916059	Chandrika
41.	S1916060	Chetana
42.	S1916066	Eshwari
43.	S1916070	Guramma
44.	S1916073	Harshita
45.	S1916074	Hazy
46.	S1916178	Shivani
47.	S1916080	Kaveri Patil
48.	S1916086	Laxmi
49.	S1916118	Nivedita
50.	S1916155	Saima Zarin
51.	S1916167	Seema
52.	S1916171	Shantabai
53.	S1916184	Shrujana
54.	S1916190	Sneha



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ಶ್ರೀಮತಿ ವೀರಮ್ಮ ಗಂಗಸಿರಿ ಕಲಾ ಮತ್ತು ವಿಜ್ಞಾನ ಹೈದರಾಬಾದ ಕರ್ನಾಟಕ

ಶಿಕ್ಷಣ ಸಂಸ್ಥೆಯ

ಪದವಿ ಮಹಿಳಾ ಮಹಾವಿದ್ಯಾಲಯ, ಕಲಬುರಗಿ-585 102



ವಿದ್ಯಾರ್ಥಿಗಳ ಹಾಜರಿ ಪುಸ್ತಕ

ವಿಷಯ : Bioinformatics

ತರಗತಿ : B.Sc IT Sem

ವರ್ಷ : 201-22

ರೋಲ್ ನಂ. Roll No.	ವಿದ್ಯಾರ್ಥಿಯ ಹೆಸರು Name of the Student	Sign. of the Teacher		Date of Lecturers																															Remarks				
		Sl. No. of Lecturers		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
190	Sheeya			0	1	2	3	4	5	6	7	7	8	9	10	11	12	13	14	15	15	16	17	18	19	20	21	22	23	24	25	26	27						
202	Subhadra.H			1	2	3	4	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27							
208	Supriya			0	1	1	2	3	4	5	6	7	8	9	10	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27						
213	Syeda Javeriya Nadya			0	1	1	2	3	4	5	6	6	7	8	9	10	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27					
215	Syeda Mahreen Fatima			1	2	3	4	4	5	6	6	7	8	9	10	11	12	13	13	14	15	16	17	18	19	20	20	21	22	23	24	25	26	27					
224	Umm-E-Haani			1	2	2	2	3	4	5	6	7	8	9	9	10	11	12	13	14	14	15	16	17	18	19	20	20	21	22	23	24	25	26	27				
227	Ummath Jahar			0	1	2	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27						
237	Leenathurina			1	2	3	4	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27							
045	Aareena Tabasum			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	21	22	23	24	25	26	27								
027	Anukheta			0	1	2	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	20	21	21	22	23	24	25	26	27				
029	Aparna			1	2	3	4	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	21	22	23	24	25	26	27							
059	Chandrika			0	1	2	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27							
060	Chetana			1	2	3	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27							
066	Eshwari			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	19	20	20	21	21	22	23	24	25	26	27					
070	Laxmana			0	1	2	2	3	3	4	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	20	21	21	22	23	24	25	26	27		
073	Preetha			0	1	1	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	20	21	21	22	23	24	25	26	27			
074	Hazy			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27								
078	Shivani			1	2	3	3	4	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27						
080	Kaveri Patel			0	1	1	2	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	21	22	23	24	25	26	27					
086	Laxmi			1	2	3	4	5	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27								
118	Vineetha			0	1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27							
155	Sainara Tasia			1	2	3	3	4	5	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27						
167	Seema			0	1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27							
171	Shantabai			1	2	3	4	4	5	6	7	8	9	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27							
184	Shrujana			1	1	2	3	4	5	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	20	21	22	23	24	25	26	27						
190	Sheha			0	1	2	2	3	4	5	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27						

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Kalaburagi - 585 102

Certificate

This is to certify that Kum/Kumari MOKSHA. B. N
of B.Sc VI semester has completed Add-o-
Course in **Bio Informatics** organized by Department of Microbiology,
Smt. Veeramma Gangasiri College for Women , Kalaburagi
from 02/06/2022 to 02/07/2022

Course Coordinator

Principal



Hyderabad Karnataka Education Society's



Smt. Veeramma Gangasiri College for Women
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