1.1.2
Bioinformatics

PROCEEDINGS OF THE BOS MEETING IN BIOINFORMATICS

The meeting of the Board of Studies is held on 21-08-2017 at 11:30 AM in the department of Bioinformatics, Akkamahadevi Women's University, Vijayapura.

AGENDA

1. Revision of Syllabus
2. Consideration of Dr. Babu R. Lamani request letter for guideship
3. Preparation of Panel of Examiners list
4. Recognizing guideship in both Bioinformatics and Biotechnology

RESOLUTION

1. The members have discussed the revision of syllabus for MSc Bioinformatics thoroughly and approved the same, to be implemented from the academic year 2018-19
2. Dr. Babu R. Lamani, Asst. Prof. submitted a letter for recognizing him as a research guide in Bioinformatics/Biotechnology both, after the discussion committee resolved to recognize the said teacher research guide in Bioinformatics/Biotechnology depending on the research scholars basic eligibility and also resolved to recommend the same.
3. Panel of Examiners for MSc Bioinformatics is prepared and approved
4. Since Research Scholars of the dept. of Bioinformatics/Biotechnology have the same basic qualifications and both subjects are inter dependent and of inter disciplinary measure and hence are cognitive subjects. Therefore for the benefit of students the award of PhD degree may please be made either in Bioinformatics/Biotechnology based on nature of research.
   The committee recommends for considering the request of research scholars during the registration or before the submission of their thesis for awarding PhD either in Bioinformatics/Biotechnology as far the needs of students based on the content of research as decided by the guide.

Members Present:

1. Prof. S.B. Madagi   --   Chairman
   Dept. of Bioinformatics
   A.M.W.U., Vijayapura

2. Prof. Srinivas C.   --   Member
   Dept. of Biotechnology
   Bangalore University, Bengaluru

3. Prof. Y.L. Ramachandra   --   Member
   Dept. of Biotechnology
   Kuvempu University, Shivamogga

Members Absent:

1. Dr. Prashant C.N.   --   Member
   Syntitic Bio-Minds
   Hebbal, Bangalore

Bio-informatics

PROCEEDINGS OF THE BOS MEETING IN BIOINFORMATICS

The meeting of the Board of Studies is held on 21-08-2017 at 11:30 AM in the department of informatics, Akkamahadevi Women's University, Vijayapura.

ENDA
1. Revision of Syllabus
2. Consideration of Dr. Babu R. Lamani request letter for guideship
3. Preparation of Panel of Examiners list
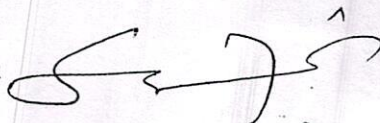4. Recognizing guideship in both Bioinformatics and Biotechnology

OLUTION

1. The members have discussed the revision of syllabus for MSc Bioinformatics thoroughly and approved the same, to be implemented from the academic year 2018-19
2. Dr. Babu R. Lamani, Asst. Prof. submitted a letter for recognizing him as a research guide in Bioinformatics/Biotechnology both, after the discussion committee resolved to recognize the said teacher research guide in Bioinformatics/Biotechnology depending on the research scholars basic eligibility and also resolved to recommend the same.
3. Panel of Examiners for MSc Bioinformatics is prepared and approved
4. Since Research Scholars of the dept. of Bioinformatics/Biotechnology have the same basic qualifications and both subjects are inter dependent and of inter disciplinary measure and hence are cognitive subjects. Therefore for the benefit of students the award of PhD degree may please be made either in Bioinformatics/Biotechnology based on nature of research. The committee recommends for considering the request of research scholars during the registration or before the submission of their thesis for awarding PhD either in Bioinformatics/Biotechnology as far the needs of students based on the content of research as decided by the guide.
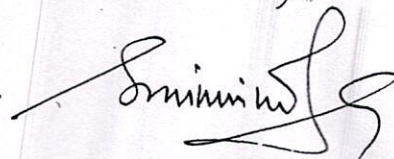
ers Present:

Prof. S.B. Madagi
Dept. of Bioinformatics   --   Chairman
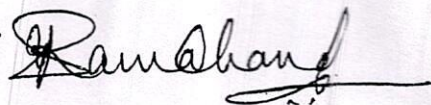A.M.W.U., Vijayapura

Prof. Srinivas C.
Dept. of Biotechnology   --   Member
Bangalore University, Bengaluru

Prof. Y.L. Ramachandra
Dept. of Biotechnology   --   Member
Kuvempu University, Shivamogga

s Absent:

r. Prashant C.N.
ntitic Bio-Minds   --   Member
ebbal, Bangalore

PROCEEDINGS OF THE BOS MEETING IN BIOINFORMATICS

The meeting of the Board of Studies held on 29-03-2019 at 11:30 AM in the department of Bioinformatics, Karnataka State Akkamahadevi Women's University, Vijayapura.
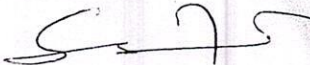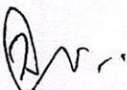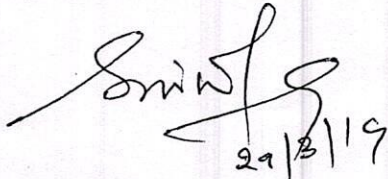
Agenda

1. Revision of M.Sc. Syllabus
2. Preparation of Panel of Examiners list for M.Sc.
3. Study tour for M.Sc. students

Resolution

1. Since the syllabus is revised very recently as per new regulations, therefore the committee resolved to continue for the next two academic years with minor changes if required
2. Panel of Examiners for M.Sc. Bioinformatics is prepared and approved
3. Study tour may be arranged for the students of Bioinformatics to provide exposure to Industries

Members Present:

1. Prof. S.B. Madagi   --   Chairman
   Chairman,
   Dept. of Bioinformatics,
   Karnataka State Akkamahadevi Women's University,
   Vijayapura

2. Dr. Babu R.L.   --   Member
   Dept. of Bioinformatics,
   Karnataka State Akkamahadevi Women's University,
   Vijayapura

3. Prof. Srinivas C.   --   Member
   Dept. of Biotechnology
   Bangalore University, Bengaluru

4. Prof. Y.L. Ramachandra   --   Member
   Dept. of Biotechnology
   Kuvempu University, Shivamogga

Member Absent:

1. Dr. Prashant C.N.   --   Member
   Scientific Bio-Minds
   Hebbal, Bangalore

Xerox — 1.1.2

Proceedings of the meeting of BoS(PG) in Bioinformatics held through circulation from 01-08-2020 to 08-08-2020
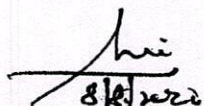
The members present

1. Dr. G. G. Rajput	Chairman and Dean Faculty of Science
2. Dr. Babu R Lamani	Member
3. Dr. Shyam Kumar V	Member
4. Dr. A Umamaheshwari	Member
5. Dr. Sam Balu .	Member

N.. 8/8/2020.

Resolutions:

1. The members reviewed the existing CBCS syllabus of M.Sc (Bioinformatics) for corrections and resolved to approve the same.
2. The members prepared the syllabus of value added course BI-VAC01 Basics of Clinical Research (02 credit paper) according to CBCS regulations and resolved to approve the same w.e.f. 2020-21 and onwards.
3. The members approved the syllabus with inclusion of course objectives and course outcomes as per NAAC criteria.
4. The members prepared and approved the panel of examiners in Bioinformatics for the academic year 2020-21.
5. The members approved the M.Phil/PhD course work paper: Research and Publication Ethics of 2 credits recommended by UGC w.e.f. 2019-20 and onwards.
6. Members prepared the Question paper pattern for M.Sc Bioinformatics and M.Phil/Ph.D course work and approved the same w.e.f. 2020 and onwards.

(Dr. G. G. Rajput)
Chairman, BoS(PG) in Bioinformatics

Course Code	Subject Title	Credits	Teaching Scheme Hrs/week			Examination				Total Marks
						Continuous Assessment		Semester End Examination (C3)		
			Lecture	Tutorial	Practical	C1	C2	Exam. Duration (Hrs)	Theory/ Practical	

M.Sc(Bioinformatics) I Semester Syllabus Under CBCS(w.e.f. 2018-19 and onwards)

Course Code	Subject Title	Credits	Lecture	Tutorial	Practical	C1	C2	Exam. Duration (Hrs)	Theory/ Practical	Total Marks
BI- HCT-1.1	Cell and Molecular Biology	04	4	0	0	15	15	3	70	100
BI- HCP-1.2	Practical-I: Cell and Molecular Biology	02	--	0	4	15	15	4	70	100
BI- HCT-1.3	C-Programming and C++	04	4	0	0	15	15	3	70	100
BI- HCP-1.4	Practical-II: C-Programming and C++	02	--	0	4	15	15	4	70	100
BI- HCT-1.5	Fundamentals of Bioinformatics	04	4	0	0	15	15	3	70	100
BI- HCP-1.6	Practical-III: Fundamentals of Bioinformatics	02	--	0	4	15	15	4	70	100
BI- SCT-1.7	Elective soft-core 1.7.1: Biostatistics and R-Programming 1.7.2: Structural Bioinformatics 1.7.3: Bio- instrumentation	04	04	--	--	15	15	3	70	100
BI- SCP-1.8	Practical IV: Based on soft core paper	02	--	0	4	15	15	4	70	100
BI-OE-1.9	**Open Elective** Offered by Dept. of Women's Studies	04	04	--	--	15	15	3	70	100
	Total Credits	28	20							900

BI- Bioinformatics, HCT- Hard core theory, HCP- Hard core practical, SCT- soft-core theory, SCP- Soft core practical, OE- Open elective

M.Sc (Bioinformatics) II Semester Syllabus Under CBCS(w.e.f. 2018-19 and onwards)									
Course Code	Subject Title	Credits	Teaching Scheme Hrs/week			Examination			
						Continuous Assessment		Semester End Examination (C3)		Total Marks
			Lecture	Tutorial	Practical	C1	C2	Exam. Duration (Hrs)	Theory/ Practical	
BI- HCT-2.1	Biophysics, Biochemistry and Immunology	04	4	0	0	15	15	3	70	100
BI- HCP-2.2	Practical-I: Biophysics and Biochemistry	02	--	0	4	15	15	4	70	100
BI- HCT-2.3	Biostatistics –II	04	4	0	0	15	15	3	70	100
BI- HCP-2.4	Practical-II: Biostatistics –II	02	--	0	4	15	15	4	70	100
BI- HCT-2.5	Applied Bioinformatics	04	4	0	0	15	15	3	70	100
BI- HCP-2.6	Practical-III: Applied Bioinformatics	02	--	0	4	15	15	4	70	100
BI- SCT-2.7	Elective soft-core 2.7.1: JAVA and Python 2.7.2: Immunology and Systems Biology 2.7.3: Image Processing	04	04	--	--	15	15	3	70	100
BI- SCP-2.8	Practical IV: Based on soft core paper	02	--	0	4	15	15	4	70	100
BI-OE-2.9	**Open Elective** Offered by Dept. of Women's Studies	04	04	--	--	15	15	3	70	100
	Total Credits	28	20							900

BI- Bioinformatics, HCT- Hard core theory, HCP- Hard core practical, SCT- soft-core theory, SCP- Soft core practical, OE- Open elective

Course Code	Subject Title	Credits	Teaching Scheme Hrs/week			Examination				Total Marks
						Continuous Assessment		Semester End Examination (C3)		
			Lecture	Tutorial	Practical	C1	C2	Exam. Duration (Hrs)	Theory/ Practical	

M.Sc (Bioinformatics) III Semester Syllabus Under CBCS (w.e.f. 2018-19 and onwards)

Course Code	Subject Title	Credits	Lecture	Tutorial	Practical	C1	C2	Exam. Duration (Hrs)	Theory/ Practical	Total Marks
BI- HCT-3.1	Genomics, Proteomics and System Biology	04	4	0	0	15	15	3	70	100
BI- HCP-3.2	Practical-I: Genomics, Proteomics and System Biology	02	--	0	4	15	15	4	70	100
BI- HCT-3.3	Multivariate Techniques	04	4	0	0	15	15	3	70	100
BI- HCP-3.4	Practical-II: Multivariate Techniques	02	--	0	4	15	15	4	70	100
BI- SCT-3.5	Elective soft-core 3.5.1: DBMS 3.5.2: Molecular Modeling and Molecular Dynamics 3.5.3: IPR, Entrepreneurship and Bioethics	04	04	--	--	15	15	3	70	100
BI- SCP-3.6	Practical IV: Based on soft core paper	02	--	0	4	15	15	4	70	100
#BI-ESS-3.7	Entrepreneurship and Start-up Studies *	02	---	--	4	15	15	4	70**	100
BI-OE-3.8	**Open Elective** Biological databases and Tools (for other Dept. Students) and Bioinformatics students can choose the other OE	04	04	--	--	15	15	4	70	100
	Total Credits	24	16							800

#ESS- Entrepreneurship and Start-up Studies * Entrepreneurship and Startup Studies Report is mandatory in 3rd Semester, **In C3 evaluation 70 marks is been distributed as 50 marks for report submission and 20 marks for presentation and Viva-Voce

Course Code	Subject Title	Credits	Teaching Scheme Hrs/week			Examination				Total Marks
						Continuous Assessment		Semester End Examination (C3)		
			Lecture	Tutorial	Practical	C1	C2	Exam. Duration (Hrs)	Theory/ Practical	

M.Sc (Bioinformatics) IV Semester Syllabus Under CBCS (w.e.f. 2018-19 and onwards)

Course Code	Subject Title	Credits	Lecture	Tutorial	Practical	C1	C2	Exam. Duration (Hrs)	Theory/ Practical	Total Marks
BI- HCT-4.1	Chemo informatics and drug designing	04	4	0	0	15	15	3	70	100
BI- HCP-4.2	Practical-I: Chemo-informatics and drug designing	02	--	0	4	15	15	4	70	100
BI- SCT-4.3	Elective soft-core 4.3.1: Perl and CGI 4.3.2 Medical Bioinformatics and Big Data Analytics 4.3.3: Molecular simulations	04	04	--	--	15	15	3	70	100
BI- SCP-4.4	Practical II: Based on soft core paper	02	--	0	4	15	15	4	70	100
*BI-HCPW-4.5	Project Work	06	---	--	6	15	15	4	** 120	150
BI-OE-4.6	**Open Elective** Biological databases and Tools (for other Dept. Students) and Bioinformatics students can choose the other OE	04	04	--	--	15	15	4	70	100
	Total Credits	22	12		14					650

Total Credits for All four Semester: 102 credits and Marks: 3250

*HCPW- Hard Core Project Work

** Dissertation shall be evaluated for 70 Marks, Presentation and Viva Voce carries 50 Marks