

BHARATHIAR UNIVERITY: COIMBATORE-641046
FORMAT FOR DEPARTMENT ACADMEIC AUDIT [2018-2019]

Name of the Department: Bioinformatics

Date : 24/08/2019

Name, Designation and Address of Academic Audit Experts: Dr.J. Jeyakanthan

Professor & Head

Department of Bioinformatics

Alagappa University

Karaikudi – 630 003

Dr. V. Rajesh Kannan

Professor & Head

Department of Microbiology

Bharathidasan University

Tiruchirapalli-620024

Faculty Members Present: Dr. N. Jeyakumar, Professor and Head

Dr. P. Shanmugavel, Professor

Dr. N. Sundara Baalaji, Assistant Professor

Dr. M. Jeyam, Assistant Professor

Dr. S. Usha, Assistant Professor

Dr. C. Jayaprakash, Assistant Professor

Dr. V. Hemamalini, Assistant Professor

Criterion	Items	Verification Yes / No	Comments	Suggestions for improvement
I. Curriculum	Steps followed in the designing of syllabus & Curriculum New Papers 1. Biostatistics 2. NGS 3. Perl and Python	Yes	Addition of MATLAB & R programming should be good for Job opportunities	Including new courses on 1) Big Data Analytics 2) Microbial genomics and Immunology
	Contents of the Curriculum	Yes	Good	-
	Validation done New Syllabus approved by BOS (which include 2 Academic experts, 1 Industry person, 1 Alumni along with department faculty)	Yes	-	Invite More Industry experts
	Credits allotted / distribution – logic Total-90 (Swayam-2 Core-4 Elective-4 Supportive-2 Practical-4 Project-8)	Yes	-	As per Standard

Curriculum Transaction	Teaching Methods & Teaching aids 1)Digital teaching(PPT) 2)Demo Hands-on with Software Tools	Yes	-	Adding Smart class room fro teaching
	E-Learning Modules [Give details including MOOC courses] 1)Online Resources/NTPL	yes	-	Swayam URL/Resources to be added in syllabus
	Project Work UG/PG 1)In house/other Central Universities, CSIR labs	Yes	-	Licensed Software and other wet lab Equipments needs to be added
	Internal Assessment - Components – Uniqueness 1) Seminar 2) Assignment 3) Internal tests	Yes	-	Online google form based tests and quiz assessment may be included
	Student Support – remedial coaching 1) Extra classes after 5PM 2) Weekend support classes	Yes	-	1) Group/Team based learning 2)One mentor for each student
	Feedback from students Yearly feedback forms	Yes	-	Google form/Periodic Reports
	Steps taken on the feedback 1)Revamped the syllabus & infrastructures based on feedback forms	Yes	-	Introduce Practical based learning

Infrastructure in the department	No. of classrooms - (2)	Yes	-	Nil
	No of laboratories- (7)	Yes	-	Nil
	No of computers – for teachers (PC-7 Workstation-5)	Yes	-	Nil
	No of computers – for students -20	Yes	-	Nil
	No of computers – for research scholars-Each Scholar one computer	Yes	-	Nil
	Details of Servers, Battery Backup System Server-1 UPS-6	Yes	-	Adding More Specialized servers for Bioinformatics software's/ Specialized Labs
	Names of Instruments (Only Major) 1)PCR 2)Protein purification system 3)Cold Room 4)Milliq water vpurification system 5)-80 Ultra deep freezer	Yes	-	Implementation of 1) Structural Biology Lab 2) Proteomics Lab

Profile of students	Demand Ratio (Applications received / Sanctioned Strength/Admitted) 25/20/15(2017) 19/20/18(2018) 19/20/15(2019)	Yes	-	NIL
	Students involved in extra-curricular & co-curricular activities Mohana Sundaram-Sports(TT Player)-2018-19	Yes	-	NIL
	Study tour / industrial visits / exhibitions / internship / Training Incob 2018, JNU, New Delhi	Yes	-	More Industry Visits/Tours
	Achievements of students (Academic, cultural etc) NIL	Yes	-	CSIR/NET Courses may be implemented
	Newsletters / Magazines of the Department NIL	Yes	-	Steps to introduce Newsletters
	Placement (Ratio, Salary Level) Mention few companies Approximately 50%	Yes	-	Placement based training for students
	% of students going for Research Approximately 10%-20%	Yes	-	Ph.D Admission ratio may be improved

Activities of the department	MoUs Signed- NIL	Yes	-	These areas to be strengthened
	Consultancy [Nature, Amount]- NIL	Yes	-	
	Collaborations-3	Yes	-	
	Department/Association Meetings Journal Clubs, Other value added education	Yes	-	
	Guest lectures [Per semester]-4	Yes	-	
	Conference / Seminars / Workshop conducted [Per Year] 14/20	Yes	-	
	Extension Activity- Nil	Yes	-	
	Interaction with Industry / Research Centres / Educational Institutions Conferences, Oral/Poster presentations Project Intendships	Yes	-	

Best Practice(s) / Innovations of the Department:

- 1) To inform the students attendance, marks and performance to the parents
- 2) To motivate students to involve innovative programs and competitions
- 3) To ask students to present their research ideas/thoughts in the research seminars/conferences

Future Plans of the Department:

- 1) Industry standard Curriculum
- 2) Job Oriented Courses
- 3) Encourage Industry Related/Extra Mural Projects
- 4) Starting PG-Diploma/Industry supported courses

N. Jayalakshmi

Signature of the HoD with Seal and Date

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J. Jayalaxmi
Signature of the Academic Audit Expert
(With Address)

Dr. J. Jayalaxmi
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