

BHARATHIAR UNIVERSITY: COIMBATORE-641046

INTERNAL QUALITY ASSURANCE CELL

FORMAT FOR DEPARTMENT ACADMEIC AUDIT [2021-2022]

Name of the Department: BIOINFORMATICS

Date : 24/09/2022

Name, Designation and Address of Academic Audit Experts:

1. Dr. Jeyakanthan
Professor and Head
Department of Bioinformatics
Alagappa University
Karaikudi-630003
2. Dr. V. Rajesh Kannan
Professor and Head
Department of Microbiology
Bharathidasan University
Tiruchirappalli-620024

Faculty Members Present:

- Dr. N. Jeyakumar
- Dr. P. Shanmughavel
- Dr. N. Sundara Baalaji
- Dr. S. Usha

Dr. C. Jayaprakash

Dr. V. Hemamalini

Criterion	Items	Verification Yes / No	Comments	Suggestions for improvement
I. Curriculum	Steps followed in the designing of syllabus & Curriculum 1) Industry 4.0 Standard 2) Job oriented courses (2) 3) Value added courses (2) 4) Updated with Latest Subjects i) NGS ii) Big Data	Yes		Adding Yoga/ Library Hours, Job oriented courses may be in week ends
	Contents of the Curriculum Industry 4.0/ International standard curriculum	Yes		Regular implementation of such activities

	<p>Validation done</p> <p>2 additional Industry member 1 suggestion from senior/retired faculty members</p>	<p>Yes</p>		<p>Keep syllabus updated with Industry standards</p>
	<p>Credits allotted / distribution – logic</p> <p>Total - 90 Major - 4 Elective – 4 Practical – 4 Supportive - 2 Project - 8</p>	<p>Yes</p>		<p>Additional software/ programming skills may be added Supportive subjects may be changed to Non-major Elective (NME)</p>

Curriculum Transaction	Teaching Methods & Teaching aids Smart classroom, whatsapp groups, Online meet/ online teaching	Yes		Recording and monitoring systems with licensed software
	E-Learning Modules [Give details including MOOC courses] Each course added Reference book, E-learning resources included	Yes		
	Project Work UG/PG Mini Project/ Summer Project Introduced	Yes		Job-oriented projects may be introduced for PG students
	Internal Assessment - Components – Uniqueness i) Online assessment forms ii) Quiz activities	Yes		Implementation of Web portal / ERP for Internal marks

	Student Support – remedial coaching	Yes		Form student groups to help weaker students among them selves
	Week end and After hour classes and one mentor faculty for each 5 students			
	Feedback from students	Yes		-
	Period feedbacks through online forms			
	Steps taken on the feedback	Yes		Students publications / Developing software / Improving programming skills
	Faculty / student one interaction meeting			
Infrastructure in the department	No. of classrooms - 2	Yes		May be Lab cum classroom with IT facility
	No of laboratories - 6	Yes		Specialized Lab may be setup in Bioinformatics domain
	No of computers – for teachers (PC-7 Workstation-5)	Yes		

	No of computers – for students - 20	Yes		Ensure 1:1 ratio computer for students
	No of computers – for research scholars Each Scholar one computer	Yes		To add more computers for Ph.D. students and also for PG students Practical / Lab
	Details of Servers, Battery Backup System Server-1 UPS-6	Yes		
	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		Recent NGS Data Analysis like Interdisciplinary Research may be initiated

Profile of students	Demand Ratio (Applications received Vs Sanctioned Strength) (Applied / Sanctioned / Admitted) 45/ 20/ 17 (2020) 75/ 20/ 18 (2021) 60/ 20/ 20 (2022)	Yes		Drop out students reasons may be studied to avoid future drop outs
	Students involved in extra-curricular & co-curricular activities NIL (COVID Pandemic)	Yes		Due to COVID no activities
	Study tour / industrial visits / exhibitions / internship / Training NIL (COVID Pandemic)	Yes		Due to COVID no activities
	Achievements of students (Academic, cultural etc) NIL	Yes		Due to COVID no activities