BHARATHIAR UNIVERSITY: COIMBATORE-641046

INTERNAL QUALITY ASSURANCE CELL

DEPARTMENT ACADEMIC AUDIT REPORT [2018-2019]

Name of the Department: Computer Applications

Date   : 24.08.2019

Name, Designation and Address of Academic Audit Experts: Dr. P. Shanmugavadivu
                                      Professor & Head, Department of Computer Science & Applications
                                      The Gandhigram Rural Institute (Deemed to be University)
                                      Gandhigram - 624 302

Faculty Members Present:

1. Prof. Dr. T. Devi – Professor & Head
2. Dr. M. Punithavalli – Professor
3. Dr. T. Amudha – Associate Professor
4. Dr. J. Satheeshkumar – Associate Professor
5. Dr. V. Bhuvaneswari – Associate Professor
6. Dr. R. Rajeswari – Associate Professor
7. Mr. S. Palanisamy – Assistant Professor
8. Dr. S. Gavaskar – Assistant Professor
9. Dr. S. Sarala – Assistant Professor

Criterion	Items	Verification Yes / No	Comments	Suggestions for improvement
I. Curriculum	Steps followed in the designing of syllabus & Curriculum 1. A study on the state-of-the-art industry standards and technologies is carried out 2. Based on which the syllabus is framed 3. The syllabus framed is reviewed and evaluated by experts from academia, industry and student alumni 4. The syllabus is approved by the members of the Board of Studies and SCAA	Yes	Based on the inputs from stake holders	Consolidated Report on the feedbacks be prepared.
	Contents of the Curriculum 1. Programme Educational Objectives 2. Programme Specific Outcomes 3. Programme Outcomes 4. Scheme of Examinations 5. Syllabus, related references and online resources 6. Question Paper Pattern 7. Internal Evaluation Pattern	Yes	The courses are designed to have a right mix of theory and practical	As per NAAC requirement, OBE may be followed
	Validation done Yes 1. Feedback from Students 2. Feedback from Faculty members 3. Feedback from Alumni 4. Feedback from Academic and Industrial Experts	Yes	Systematic feedback is obtained as per (1) – (4)	Itemwise reports can be prepared for (1) – (4)

	Credits allotted / distribution – logic 1. Core/ Elective Theory – 4 credits for Theory 2. Core/ Elective Theory Cum Practical – 2 Credits for Theory and 2 Credits for Lab 3. Supportive – 2 Credits 4. Online/ Job-Oriented/ Vocational Courses – 2 Credits	Yes	All the elements are in place. Online teaching resources are also included	• More online resources can be added • Credit transfer for online courses be incorporated. • Categorywise courses can be grouped and be presented for each course.
Curriculum Transaction	Teaching Methods & Teaching aids 1. Lectures through LCD Projectors 2. Google Classrooms 3. Online Platforms for teaching Learning 4. E-Books 5. E-Journals 6. Digital Library 7. E-Thesis 8. Webinar 9. Class Seminars 10. Use-Case, Case Study based Teaching	Yes	The faculty members vibrantly use ICT for Teaching and Learning. They have contributed through video lectures hosted in GCR	New Teaching Learning methods can be incorporated
	E-Learning Modules [Give details including MOOC courses] 1. budca.in	Yes	The faculty members have contributed.	Number of visits for web resources may be quoted. Social media handles can be created for Department
	Project Work UG/PG 1. Mini-Project and Major Project	Yes	The students predominantly take up industry oriented projects. A handful of students also take up research	

		oriented project.	
Internal Assessment -Components – Uniqueness 1. Team Project Work 2. Team Assignment 3. Quiz 4. Real-Time Application Analysis	Yes	All these components are in place. Both online & offline quizzes are conducted	The students may be encouraged to get involved in the development of campus automation such as e-governance, MIS
Student Support – remedial coaching 1. Two Week Orientation Programme for newly admitted students covering the fundamentals of computers 2. Seminars organized by Computer Applications Association for Department Students 3. Motivating Students to Participate in hackathons, present papers in conferences and to attend hands-on workshops 4. Placement Training	Yes Yes Yes Yes	The students are provided enough and more input for learning and capacity building	Academic Writing Centre can be established for researchers to train on quality research paper writing.
Feedback from students 1. Feedback from students are obtained through online portal – course-wise feedback, consolidation report	Yes	Available	
Steps taken on the feedback 1. Feedback forms the input for designing syllabus and curriculum	Yes		

Infrastructure in the department				
	No. of classrooms : 7	Yes		
	No of laboratories: 4	Yes		
	No of computers – for teachers :19	Yes		As the Department is expanding, necessary space may be set aside. Alumni sponsored Computer Lab may be created
	No of computers – for students :111	Yes		
	No of computers – for research scholars : 12	Yes		
	Details of Servers, Battery Backup System HP Server – 1 UPS - 9 Battery – 100	Yes		High end workstations may be procured to promote research in AI, Augmented Reality
	Names of Instruments (Only Major) High Performance Computing	Yes	One of the credits of the Department	Access may be given for outsiders to access
Profile of students	Demand Ratio (Applications received Vs Sanctioned Strength) **2016-2017** MCA- 111:140 **2017-2018**	Yes	The demand ratio is good	PG programme on cyber security may be initiated

MCA- 166:160 MSc DA: 40:54 **2018-2019** MCA-126: 128 MSc DA- 78: 44 MCA – 90% Computer Science background M.Sc. DA – Heterogeneous Pool (Mathematics, Commerce, Statistics, Engineering)			
Students involved in extra-curricular & co-curricular activities • CAA – Inter Department Cultural Fest • Student Technology Instructors for Workshop	Yes	Nearly 50% of the students involve in curricular, co-curricular and extra-curricular activities	
Study tour / industrial visits / exhibitions / internship / Training	Yes	This practices are in place	
Achievements of students (Academic, cultural etc)	Yes	The Department motivates the students to vibrantly participate in these activities.	Students may be motivated to participate in national level seminars, conferences and Hackathon.
Newsletters / Magazines of the Department	No		The department can bring out newsletters

	Placement (Ratio, Salary Level) Mention few companies	Yes	The placement profile of the Department is very good. M.C.A : 40% M.Sc. Data Analytics : 75%	The Department may start an Incubation Centre to foster the innovative ideas of the student. In-house Innovation competition can be conducted.
	% of students going for Research Less than 1%		As the programmes offered are ideally employment oriented the number is low.	Institute may provide special grants to lure more students for research

Activities of the department	MoUs Signed
	  1. Tata Consultancy Services
	  2. UiPath
		Yes	The MoUs and collaborations are functional.	

	Consultancy [Nature, Amount]			
	Collaborations			
	Department/Association Meetings	Yes	The Department has a good record of having conducted many programmes.	
	Guest lectures [Per semester]			

Conference / Seminars / Workshop conducted [Per Year] **2016-2017** 1. Research Insights and Publications 2. Current Trends in Software Industry 3. Seminar on Recent Trends in Computer Applications Resources **2017-2018** 1. How to face Interviews and Current Trends in Software Industries 2. Recent Trends in Computer Trends 3. Recent Trends in Automation 4. Cyber Security & Digital Forensics 5. Current Trends in News and Communication Malayalam 6. Open Source Tools and Technologies 7. Internet of Things 8. Workshop on Data Analytics with R 9. Seven Days Training Program on Big Data and Data Analytics 10. Training Programme for 10 days on Big Data Technologies, BIG Data Division 11. One Week National Level Hands-on workshop on Internet of Things **2018-2019** 1. Confluence of Human Computer Interface & AI 2. Ethical Hacking 3. Youth Development 4. Applications of Cloud 5. Two Days National Conference On Big Data and Data Analytics - Ncbda2018	Yes		

6. Seven Days Training Program on Big Data and Data Analytics 7. National Seminar on Augmented Reality 8. Two Days Workshop on Data Analytics with R				
Extension Activity 1. Campaign by Bharathiar University for Digital Economy VISAKA				
Interaction with Industry / Research Centres / Educational Institutions	Yes	The Department has functional tie-up, networking and collaboration with industries	More MoUs with national and international universities can be initiated.	

Best Practice(s) / Innovations of the Department:

Academic

1. Organizing Student Centric Activities
2. Week – Long Orientation Programme for PG Students

Research:

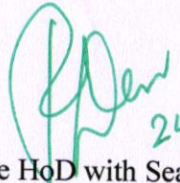1. Research Forum for Research Scholars

Extension

1. Campaign by Bharathiar University for Digital Economy VittiyaSakshartaAbhiyan (VISAKA)

2. Digitization for Paperless Operations   –   Many practices are in place, which deserves appreciation.
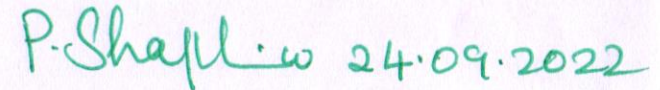
Future Plans of the Department:

1. Establishment of Artificial Intelligence Lab
2. Establishment of Centre for Excellence in Cyber Security

24/9/2022

Signature of the HoD with Seal and Date

Professor and Head
Department of Computer Applications
Bharathiar University
   Coimbatore - 641 046.

P.Shaṇ·ω 24·09·2022

Signature of the Academic Audit Expert
(With Address)

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