

UNIVERSITY OF CALICUT  
Academic & Administrative Audit of Teaching Departments  
(2016 -2021)  
**Report**

Name of the Department		Department of Computer Science .		
Sl. No.	Item	Grade A - Excellent, B - Good C - Average D - Poor	Comments	Suggestions for improvement
I	Programmes Offered	B	With the existing faculty strength and facilities available in the Dept., the programmes offered in the department are sufficient.	Take necessary steps to introduce more engineering related programmes like MTech or MCA in the department.
1	Relevance, adequacy, innovativeness etc. (3-8)	B	Courses relevant to research in computer science are added to the curriculum	Introduce interdisciplinary programmes in association with other departments of the University.
2	Demand ratio of courses (33,35,36)	A		
3	Syllabus & curriculum (10,11, 46 )	B	No information regarding suggestions taken from employers for revising the curriculum.	Try to include more industry and research-oriented courses as a part of curriculum.
4	Examination & Results (9, 34, 37)	A		
II	Faculty			
1	Strength (12, 14, 15 )	C	Staff strength(permanent) is not sufficient.	Preference should be given to fill the vacant faculty positions immediately. Faculty positions like Associate professors/Professors are not created in the department. These faculty positions are mandatory to build research environment and

				for providing quality education to the student community.
2	Student teacher ratio (16)	A	The student teacher ratio is calculated by considering contract/guest faculties appointed in the department.	
3	Qualification, experience diversity, performance etc. (13, 41, 48)	C	80% of the faculty members are appointed from the same university itself.	For diversity, appoint more experienced faculty members from outside the university or state.
4	Participation of faculty in Professional development programmes, Seminars, Workshops etc. (26-27)	A		
5	Recognitions received by faculty from notable institutions (state, national or international) (28-30)	C	Mentioned only some state level recognitions.	Encourage, recommend, and equip faculty members of the department for getting national or international recognitions.
<b>III</b>	<b>Research</b>			
1	Thrust area (18)	B	Explore more research areas	More senior faculty members are to be recruited to expand the thrust areas of research
2	Facilities (21, 22)	B	Specify the capability and complete specification of the computing facilities and other research equipments available in the department lab.	More sophisticated computing facilities suitable for developing AI and ML algorithms need to be arranged in the lab.
3	Publications (23)	B	Specify whether the publications are SCI/Scopus/UGC care list publications and specify them separately.	Encourage research students and faculty members to publish their research work in reputed journals.
4	Patents (24)	B	Only two patents published	Try to publish more number of patents and motivate research students to do research leading to patents.
5	Consultancy (25)	D	Not given any information.	Take necessary steps to undertake consultancy works.
6	Projects	B	Only one major research project.	Encourage research students and faculty members to submit major research proposals

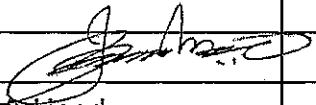
	(19)			to external funding agencies like DST, KSCSTE etc. for strengthening the research in the department.
	External Funding (all funds secured by faculty other than normal grants received by the University) 7 (20)	D	No other funds received	Department should take necessary steps to get more funds from agencies like DST-FIST, UGC-SAP etc. for the development of the total infrastructural and computing facilities.
<b>IV</b>	Students			
	Student achievements (state, national, international) 1 (31)	D	Verify the information given against item number 31.	National/International/State Level recognitions/awards should be mentioned; not best paper awards.
	Diversity (male female ratio, from within the state, outside the state and international) 2 (33, 38)	B	Majority of the students are from the state.	Steps should be taken to attract a greater number of students from outside the state as well as international students.
	Student Progression 3 (39, 40, 49)	B	MPhil and PhD are the only higher studies options available in the department. Seats are very limited for these programmes.	Arrange training/coaching classes for the students to appear in various competitive examinations like UGC-NET/Civil services/GATE/SET etc. Placement activities should also be strengthened. Start new programmes like MTech in computer science in the department.
	Financial support to Students 4 (45)	C	In the year 2021 only 34 students got financial support as Egrantz.	University authorities should take actions like introducing scholarships/fellowships to economically weaker students. Facilities are to be arranged in the department to provide the information regarding various state//national/international level scholarships schemes presently available for the students.
<b>V</b>	Support Staff (Strength, Adequacy etc.)	C	No technical staff to support the students in lab.	Technical staff/Programmer in each computer and research lab are mandatory to run a programme like MSc/MPhil/PhD. To utilize the resources of the lab to its maximum these lab staffs are so important.

VI	Teaching- learning & Evaluation (47)	B	Clearly specify the internal evaluation strategy followed in the department. Arrange more bridge courses for students those who are weaker in programming/mathematical skills.	A mechanism should be maintained in the department to access the quality of teaching and at the same time to monitor the performance of the students.
VII	Feedback Mechanism (48)	B	Feedback mechanism should be strengthened. Grievance redressal mechanism should also be introduced.	Arrange facilities in the department to collect suggestions from students and teachers and use the same for improving the overall activities of the department.
VIII	Activities of the Department (conduct of seminar, workshops, student enrichment programmes, extension activities and other beyond scholarly activities) (32, 50, 55)	A		
IX	Infrastructural facilities of the Department (52)	B	Specify the facilities clearly.	Since the configuration of the computing facilities are changing day by day, a mechanism should be available in the department to purchase latest computing systems. To promote quality teaching/research, our computing systems should be capable to load and use latest software tools and packages.
X	Uniqueness of the Department & Innovative practices (53-55)	B	Deep learning workstation available in the lab is commendable.	To explore the current research trends in areas like AI, Data Science, Machine Learning, Cyber Security, Block Chain Technology, etc., infrastructure facilities suitable to handle these trends are very important. Try to implement these facilities in the department to facilitate research in this area.
XI	SWOC (56)			
1	Strength	B		
2	Weakness	B		

3	Opportunity	B		
4	Challenges	B		
XII	Future plans ( 57)	A		

**Overall remarks of the Auditor :**

Remarks are given as suggestions for improvement in each section.

Place :CUSAT		Signature :	
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