Department of Computer Science and Engineering
National Institute of Technology Calicut
NIT Campus (P O), Calicut- 673 601, India.

Minutes of the DCC Meeting on 25th January 2019 (Friday)

Venue : APJ Abdul Kalam Conference Hall, CSED

Time : 10.15 pm – 12.00 pm

The meeting started at 10.15 am. Dr. Saleena N, HOD, CSED welcomed the members to the DCC meeting. The following were the items that came up for discussion and the decisions taken thereof:

1. **Ratification of Email DCC minutes on 8th Jan 2019 and 18th Jan 2019**

   DCC secretary presented the minutes of Email DCC on 8th and 18th of January 2019. The decision to send 11 + 4 MCA students for internship in industry was ratified by the DCC.

2. **Regarding crediting NPTEL courses as global elective .**

   DCC discussed the proposal for allowing NPTEL courses as global elective and made the following suggestions.

   1. Every semester the department in consultation with the students should be given the freedom to select the NPTEL courses for that semester. This is to ensure that course is having the desired quality as NPTEL has courses over a long time span.

   2. The courses credited as NPTEL courses should be marked in the grade card as NPTEL course.

   3. DCC expressed concern about NPTEL course having credit equivalence with courses run in-house. There should be similar evaluation pattern as NITC courses if their credits have to be considered as equivalent. Also there needs to be further discussion on how the grades can be normalized when there is a disparity in evaluation criteria.

3. **Plan for increased intake.**

HoD introduced the MHRD plan to increase the intake of students in all coursers from academic year 2019-2020. This will result in an increase of 25% student population in the department and hence there is a requirement for increase in faculty, space and laboratory infrastructure.

The increase in ***faculty and staff requirement*** was prepared by Dr. Subashini and Dr. Arun and presented by Dr. Arun. This is attached as Annexure -1.

The increased requirement for laboratory requirements was prepared and presented by Dr. Gopa Kumar. This is attached as Annexure – 2.

The increased requirement for space was prepared and presented by Dr.Lijiya A and is attached as Annexure – 3.

2 d in office memorandum F No: 12-4/2019-U1 issued by MHRD states that "Where on a representation by any Central Educational Institution , the appropriate authority is satisfied that for reasons of financial, physical, or academic limitations or in order to maintain the standards of education, the annual permitted strength in any branch of study or faculty of such institute cannot be increased for the academic session following the commencement of this Act, It may permit such institution to increase the annual permitted strength over a maximum period of two years beginning with the academic session following the commencement of this Act."

" The DCC would like to bring it to the notice of authorities that the department has a serious lack of space/faculty and laboratory facilities to handle the increased intake at present."

4. **Proposal from the first year coordinator regarding the change in conduct of first year class committee**

DCC felt that conducting the department level class committee will be more effective than current practice but recommends that this should be followed by a second level meeting of first year coordinator and all course coordinator with Dean Academic to consolidate the concerns in common courses across different departments.

5. **Smart India Hackathon**

HoD informed DCC about the institute decision that the department has to coordinate SmartIndia Hackathon on 2nd and 3rd March 2019 and requested the co-operation of all the members of the department for the conduct of the same.

6. Class Room Updates

HoD informed the DCC about the current status of class rooms.

MB302(MCA Classroom) was converted into a drawing hall temporarily and deparment was using MB111 (Tutorial room of ECED) for conducting MCA classes. Now ECED had requested that they are in need of this room and HoD contacted Dean Academic for getting a new classroom. Dean Academic suggested NLHC 305 which is yet to be released by Dean P&D.

DCC recommended that HoD can propose to ECED to permit CSED to use MB111 for all slots except the B slot and for B slot classes for MCA the room that ECED uses for B slot may be given to CSED.

7. Project Fellow to register for Ph.D

The existing rule is as follows:

> "Research Staff, who are working on sponsored research projects in the Institute should have completed a period of not less than one year on the project and project should be in force for at least two more years, are eligible for registration if they apply for the same at the normal time for admission with the recommendation of the Principal Investigator /Head of the department and Dean (R&C). A certificate to this effect from the Principal Investigator/Head of the Department concerned should be attached to the application form. There will not be any financial assistance or concessions from the projects/Institute for such candidates. "

Considering the time lag (time spent in transferring the projects from host institution to NITC and appointing a Research Staff), the DCC recommends that

> "Research Staff, working on transferred research projects in the Institute may be permitted to apply for Ph.D. at the normal time for admission under Part-Time Category with the recommendation of the Principal Investigator /Head of the department and Dean (R&C)."

8. Request from Dr. Jayaraj P B for recommending the request for financial sanction for purchasing equipments to his lab

DCC decided to recommend request from Dr. Jayaraj P B to obtain necessary administrative and financial sanction for purchasing the components required for his lab (cost total around Rs. 42,000/-) from the DDF share of the registration fund collected from the GIAN course conducted by him.

Name and Signature of the members present:

Sl. No.	Name	Signature	Sl. No.	Name	Signature
1	JAYARAJ·P·R		11	Jimmy Jose	
2	Saleena·N		12	SREEKRISHNAN L	
3	Lijija A		13	VASUDEVAN A.R.	
4	M. Prabu		14	JOHN·C·A	
5	ARUN RAJ KUMAR		15	Manu Madhavan.	
6	Sudeep·K.S.		16	Jay Prakash	
7	SREENU NAYK BHUKVA		17	Anu Chacko	
8	Saidalavi Kalady		18	Gopakumar G,	
9	K A Abdul Nazeer		19	V.R. Ajayachandran	
10	Vineeth Paleri		20		

Annexure -1 Increased Faculty and Staff Requirement

FACULTY STUDENT RATIO

	Batch (Year)	Current Strength	After 25% increase	Total
B TECH	2019-2020 (Ist year)	138	197 (138+35+24(DASA))	197
	2018-2019 (IInd year)	161		161
	2017-2018(IIIrd year)	151		151
	2016-2017 (IVth year)	149		149
Total				**658**
M TECH	2019-2020 (Ist year)	40	50	50
	2018-2019 (IInd year)	36		36
Total				**86**
MCA	2019-2020 (Ist year)	45	56	56
	2018-2019 (IInd year)	46		46
	2017-2018(IIIrd year)	44		44
				146

Total UG + PG : 658+86+146 = 890

Number of faculties required : 890 / 12 = 74

Staff ratio

Number of faculties required   : 74

Based on the faculty strength : 74 * 1.1 = 81 staff required in next year (2019)

Annexure -2   Laboratory (Equipment) Requirements

Software Systems Lab/Network Systems Lab/Hardware and Embedded Systems lab*

B. Tech Lab

Year	Name of the Equipment	Quantity	Rate (Rs. in Lakhs)	Amount (Rs. in Lakhs)	Justification
2019-20					
2020-21	Desktop PCs	40	0.6 lakhs	24 lakhs	For providing computing facilities to conduct laboratory course for the increased intake
	Server Machine	2	7 lakhs	14 lakhs	For providing computing facilities to conduct laboratory course for the increased intake, managing the users, conducting exams etc
	Server rack, KVM Console, Switch, Server cabin	1 each	3 lakhs (together)	3 lakhs	To mount the servers, manage the servers, interconnecting and enclosing altogether.
	FPGA Kit	35	0.30 lakhs	10.5 lakhs	For providing hardware lab experiments.
	UPS	1	15 lakhs	15 lakhs	For providing uninterrupted power to computing devices
2021-22	Desktop PCs	40	0.6 lakhs	24 lakhs	For providing computing facilities to conduct laboratory course for the increased intake
	Workstation	2	2 lakhs	4 lakhs	For doing student projects,
	FPGA Kit	35	0.3 lakhs	10.5 lakhs	For providing hardware lab experiments.
2022-23	Desktop PCs	40	0.6 lakhs	24 lakhs	For providing computing facilities to conduct laboratory course for the increased intake

* This lab currently has only 26 Desktop PCs used for Hardware Lab. To accommodate whole UG students of a year (198 in numbers) at a time in a core

laboratory course, we require 3 labs, each accommodating 75 students. Hence department recommends to convert the existing Hardware lab into a Software lab (similar to existing SS lab and NS lab; which can accommodate maximum 150 students only) and to establish a new Hardware lab for conducting experiments using FPGA kits and computer simulations.

Image Processing/Cloud Computing Lab/Machine Learning Lab* -

M. Tech Lab

Year	Name of the Equipment	Quantity	Rate (Rs. in Lakhs)	Amount (Rs. in Lakhs)	Justification
2019-20	Desktop PCs	20	0.8 lakhs	16 lakhs	For providing computing facilities to conduct laboratory course for the increased intake
	Server Machine	2	8 lakhs	16 lakhs	For providing computing facilities to conduct laboratory course for the increased intake, managing the user accounts, conducting exams, project works etc
	UPS	1	10 lakhs	10 lakhs	For providing uninterrupted power to computing devices
2020-21	Desktop PCs	20	0.8 lakhs	16 lakhs	For providing computing facilities to conduct laboratory course for the increased intake
	Workstation	4	2 lakhs	8 lakhs	For doing student projects
2021-22					
2022-23					

* Presently PG students admitted in a year are accommodated in multiple labs and in order to accommodate the increased intake, a separate PG lab is essential as the current labs are completely occupied with their seating capácity. Hence the department recommends establishing a new laboratory for the PG students.

Network Systems Lab/Big Data and Biocomputing Lab* - MCA Lab

Year	Name of the Equipment	Quantity	Rate (Rs. in Lakhs)	Amount (Rs. in Lakhs)	Justification
2019-20	Desktop PCs	30	0.8 lakhs	24 lakhs	For providing computing facilities to conduct laboratory course for the increased intake
	Server Machine	1	8 lakhs	8 lakhs	For providing computing facilities to conduct laboratory course for the increased intake, managing the user accounts, conducting exams, project works etc
	UPS	1	10 lakhs	10 lakhs	For providing uninterrupted power to computing devices
2020-21	Desktop PCs	30	0.8 lakhs	24 lakhs	For providing computing facilities to conduct laboratory course for the increased intake
	Workstation	2	2 lakhs	4 lakhs	For doing student projects
2021-22					
2022-23					

* Presently MCA students admitted in a year are accommodated in multiple labs and in order to accommodate the increased intake, a separate MCA lab is essential as the current labs are completely occupied with their seating capacity. Hence the department recommends establishing a new laboratory for the MCA students.

Approximate amount: 129 Lakhs + 66 Lakhs + 70 Lakhs = 265 Lakhs

Additional requirements on furniture and supporting laboratory equipments to accommodate the increased intake of students.

The following items (in addition to the items mentioned in the proforma sent by Dean (P&D)) are needed to accommodate the increased intake of students in various programmes in the department.

B. Tech

Requirements needed when the existing Hardware lab is converted into a Software Lab and a new Hardware lab is established.

Item	Quantity required	Approximate amount (lakhs)
Computer Chairs	120	7.2
Computer tables	120	8.4
Laptop	2	1.3
Air conditioners	7	3.5
Office table	4	0.6
Office chairs	10	1.1
Office computers	5	2.5
Office printer	1	0.3
White board	1	0.1
PA System	1	0.4
Projector	1	0.7
	Total	26.1

M. Tech – For establishing a new lab

Item	Quantity required	Approximate amount (lakhs)
Computer Chairs	40	2.4
Computer tables	40	2.8
Laptop	1	0.65
Air conditioners	3	1.5
Office table	2	0.3
Office chairs	5	0.55
Office computers	3	1.5
Office printer	1	0.3
White board	1	0.1
Projector	1	0.7
	Total	10.8

M. CA - For establishing a new lab

Item	Quantity required	Approximate amount (lakhs)
Computer Chairs	60	3.6
Computer tables	60	4.2
Laptop	1	0.65
Air conditioners	3	1.5
Office table	2	0.3
Office chairs	5	0.55
Office computers	3	1.5
Office printer	1	0.3
White board	1	0.1
Projector	1	0.7
	Total	13.4

Approximate cost of the above items: 50.3 Lakhs

Annexure -3

Requirement of Extra space   25-01-2019

Sl No	Facility (required area)	Existing Area(m²)	Required Area(Immediate requirement) (m²)	Required Area (m²)	Extra Space required
1	**Undergraduate Labs**			**750**	**442**
	1.Software Systems lab	168	250		
	2.Hardware and Embedded Systems Lab	140	250		
	3. DBMS Lab		250		
2	**Postgraduate labs**				
	1. Image processing lab	81	120		
	2. Machine Learning Lab	81	120		
	3. Postgraduate Projects Lab (MCA)		120	**680**	**350**
			120		
	4. Postgraduate Projects Lab (MTech)		200		
	4. Network Systems Lab	168			
3	**Research Labs**				
	1. Secure Computing Lab	84	250		
	2. Bio computing Lab	21	250		
	3. Big Data and Bio computing Lab	150	250	**1300**	**982**
		63	250		
	4. Cloud computing		150		
	5. IOT Lab		150		
	6. Computer vision lab				
4	**Class Rooms**	995			
	1. 12 UG Classrooms (100 seats) (110 sqm. each)		1320		
				2156	**1161**
	2. 4 Tutorial Rooms (100 seats) (110 sqm. each)		440		
	3. 6 PG Classrooms (60 seats) (66 sqm. each)		396		
5	**Seminar Halls**				
	1. UG Seminar Hall I (200 Seats)	131.27	400	**600**	**468.73**
	3. PG Seminar Hall (100 Seats)		200		
6	**Faculty Rooms** (20 sqm. each) *88	622.7	1760	**1760**	**1137.3**
7	**Department Library and Reading Room**	20	100	**100**	**80**
8	**Staff Room**		100	**100**	**100**

	1. Conference Room	50	100		
	2. Technical Discussion Room	72	100	250	128
	3. Research Scholar Lounge		50		
10	**Technical Facilities**				
	1. Server Room		50		
	2. UPS Room	20	50	250	200
	3.Department Store and Go-down	30	100		
	Equipment Maintenance Cell (50		50		
	sqm.)				
11	**Administrative Facilities**				
	1. Office for HOD		50		
	2. Department Office	129.2	200	400	270.8
	3. Exam Cell		50		
	4. Records Room		50		
	5. Board Meeting Room		50		
12	**Other Amenities**				
	1. Visitors Lounge		100		
	2. Girls common room		100	960	960
	3. Boys Common room		100		
	6.Security/House Keeping		50		
	8. Toilets(Ladies &Gents)		150		
			50		
			10		
			400		
	Total Carpet Area	3026 (Approximately)		9740	6279.83
	Circulation Area (25% of Carpet Area)			2435	
	Total Built up area			12175	

(Note:

1. The proposal includes the space requirement only for the academic activities of the Computer Science and Engineering Department and does not include the space requirement for any centralized facilities such as CNC or DSS.

2. A detailed proposal for department building submitted in 2014 is enclosed. This document considers only the immediate requirement to accommodate the proposed incresed intake of students only.

3. Data shown for Existing area is only approximate figures.)