



APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

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No. KTU/ASST1(ACADEMIC)/5165/2020

APJ Abdul Kalam Technological University
(Academic Section)
Thiruvananthapuram
Dated: 04.12.2020

UO(NOTE)

- Sub:- Academic- Request from the Principal, Toch H Institute of Science & Technology for approval of the eligibility criteria for M.Tech Data Science - approved- Minutes of the Cluster- Eranakulam 1 meeting- upload in the website-reg
- Ref:-
1. TIST/KTU/52434/2020-21 dated 21.10.2020 from the Principal, Toc h Institute of Science & Technology
 2. This office letter of even No dated 14.11.2020.
 3. Email from the Principal, Toc H

Vide ref read as (1) above, the Principal, Toc H Institute of Science & Technology has requested to approve M.Tech course in data Science under the University in 2020. The eligibility criteria for the course have been discussed in the Eranakulam Cluster 1 CGPC meeting. It is resolved that eligibility is subject to approval from the Department of Technical Education Kerala. Hence it is requested to take the necessary steps to upload the Minutes of the Cluster Eranakulam 1 Meeting on the website.

The Minutes of the Cluster Meeting is attached herewith.

Dr. Bijukumar R *
Dean (Academic) in Charge

To
AD(IT)

* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.



SUMMARY OF THE DISCUSSIONS
CLUSTER – ERNAKULAM 1

KTU/ Ernakulam 1 cluster / CGPC

Date of Meeting: 24th September, 2020

Time: 11.00 hrs-12.00hrs

Venue: Rajagiri School of Engineering & Technology (RSET), Rajagiri Valley, Kochi 039

Mode of Conduct: Online - Due to COVID 19 Pandemic (via Google Meet)

In Attendance (as per list attached)

Discussions

- (i) Approval of the draft curriculum and syllabus of the newly offered courses - Artificial Intelligence and Data Science, Cyber Security, Data Science.
- (ii) Nomination of new faculty members to the post of Curriculum Coordinator/Chairman of Valuation Camp in case of transfer/resignation.
- (iii) Present status of M.Tech University Examinations and Valuation Camp

Minutes

(1) The meeting started with opening remarks by Cluster Convener and Cluster Chairman. The Cluster Chairman Dr. A Veeragavan mentioned some observations made on the draft Curriculum and syllabus which can be addressed in the meeting

- (a) Is the proposed syllabus for the new sanctioned courses have been vetted by an expert from reputed national institutions/ R & D organizations or from industry so that the syllabus caters to the employability of the students after their post-graduation?
- (b) Can the elective subjects be made global so that the students from other streams can also choose this subject as part of their course?

(2) Dr. Anand Hareedran S, Curriculum Coordinator, presented the curriculum of - Artificial Intelligence and Data Science, and Cyber Security.

The syllabus for Artificial Intelligence and Data Science was vetted by subject experts from *Tata Consultancy Services Limited* and the syllabus for Cyber security was vetted by experts from *Ernst & Young Global Limited*.

As instructed by Dr. Anand Hareedran S, the Curriculum for Data Science was presented by Mr. Abin Philip, from TIST. The syllabus was vetted by experts from



Roade Labs Pvt. Ltd, Kochi and Machine Intelligence Research Labs, USA. It is prepared based on AICTE model Curriculum.

(3) Dr. Binu V P, MEC suggested the addition of new courses on "Network Security" and "Block chain Technology" to the Cyber Security stream.

Action: Dr. Anand Hareedran S

(4) The Cluster Chairman insisted to follow the same syllabus for courses with the same name. The syllabus of Research Methodology should be unified with existing syllabus so that all streams follow the same syllabus for the course. He insisted to maintain uniformity while citing the reference textbooks for all courses.

Action: Dr. Anand Hareedran S

(5) The Cluster chairman made following suggestions:

- a. Open Electives: under open electives students have the options to study subjects offered by other departments
- b. A core course offered in a discipline may be treated as an elective by other discipline and vice versa.
- c. The Cluster Chairman suggested giving project work for each course so that students can apply the concepts that they have studied in the course.

Action: Cluster Chairman

Steps taken by the Chairman

The Cluster Chairman has requested KTU Vice Chancellor to consider the freedom of choosing electives as an agenda of the Academic Committee meeting of KTU. He recommended permitting students to credit electives from other streams of M.Tech which fosters interdisciplinary research. He also added the requirement that core courses of one stream may be credited as elective by the students of another stream, as practiced in IITs. The VC has assured to look into the matter.

The Cluster Chairman has also suggested to consider few fixed slots for the core and elective courses so that students will not face any issues in attending the classes and exams.

(6) The Cluster Chairman suggested that the project evaluation should be made transparent following the guidelines of KTU and separate marks have to be awarded for Report, Presentation and Question Answer sessions to avoid any discrepancy in evaluation and evaluate all students in a fair manner.



Steps taken by the Cluster Convener

Semester	Project Phase	Total Marks	Proposed mark distribution
Semester 3	Project Phase I	50 Marks (Only Internal Evaluation)	<p>1. Evaluation by the Committee: 30 Marks</p> <ul style="list-style-type: none"> a. Presentation: 10 Marks b. Work and Report: 10 Marks c. Question and Answer: 10 Marks <p>2. Evaluation by Project Supervisor: 20 Marks</p> <ul style="list-style-type: none"> a. Presentation: 10 Marks b. Question and Answer/Report: 10 Marks
Semester 4	Project Phase II	100 Marks (70 Marks [Internal Evaluation] +30 marks[External Evaluation])	<p>1. Internal Evaluation: 70 Marks</p> <ul style="list-style-type: none"> i. Committee Evaluation: 40 Marks <ul style="list-style-type: none"> a. Presentation: 10 Marks b. Results: 10 Marks c. Report: 10 Marks d. Question and Answer: 10 Marks ii. Project Supervisor Evaluation: 30 Marks <ul style="list-style-type: none"> a. Over all Result (Report +Paper Submission+ Funding etc): 20 Marks b. Commitment towards work: 10 Marks <p>2. External Evaluation: 30 Marks</p> <ul style="list-style-type: none"> a. Presentation: 15 Marks b. Results/ Question and Answer: 15 Marks



(7) The eligibility criteria for the newly added courses are mentioned below,

1. Artificial Intelligence and Data Science - Eligibility Requirements Proposed:
BE/B.Tech in CSE/IT/EC/E/EE/ME
2. Cyber Security - Eligibility Requirements Proposed:
BE/B.Tech in CSE/IT/EC/E/AEI
3. Data Science - Eligibility Requirements Proposed:
BE/B.Tech in CSE/IT/EC/EE/ME/IE

Eligibility is subjected to Department of Technical Education (DTE), Kerala approval.

Action: Principals of MITS, TIST

(8) Dr. Jaya V L, Professor in EC Department, MEC has been nominated as the new curriculum coordinator for VLSI and Embedded Systems. Dr. Binu V. P, Associate Professor in CSE Department, MEC has been nominated as the new Chairman for CSE for CV camp. The Cluster Convener had already nominated Dr. Anand Hareedran S, Associate Professor in CSE Department, Muthoot Institute of Technology and Science as Curriculum Coordinator of Artificial Intelligence and Data Science, Cyber Security, and Data Science.

(9) The status of University Examinations and CV camp was discussed. M.Tech S4 Thesis results have been published. The supplementary examinations are expected to start from 28th September in offline mode itself following the COVID protocol guidelines. The M.Tech CV camp will be conducted as per the instructions from KTU.

The Cluster Convener expressed his gratitude to Prof. A Veeraragavan and all the attendees and requested the final draft of Curriculum and Syllabus to reach the Cluster after making the modifications suggested in the CGPC on or before 1st October 2020.


Dr. P S Sreejith

Convener, Ernakulam 1 cluster
(Principal RSET, Kochi)



Annexure- Attendance

1. Dr. A Veeraragavan, Cluster Chairman, IIT Madras
2. Dr. P S Sreejith, Principal, Cluster Convener, RSET
3. Dr. Neelakantan P C, Principal, MITS
4. Dr. S Jose, Principal, AISAT
5. Dr. Praveensal S, Principal, SCMS
6. Dr. Krishna Kumar S, FISAT
7. Dr. Anand Hareendran S, MITS
8. Dr. Binu V P, MEC
9. Dr. Archana R, FISAT
10. Dr. Preetha K G, RSET
11. Dr. Anitha G Pillai, SCMS
12. Mr. Jayadas C K, MEC
13. Dr. Sreenivas P, MEC
14. Ms. Shimmi Asokan, RSET
15. Ms. Liji Anna Mathew, AISAT
16. Dr. Jaya V L, MEC
17. Dr. Sreela Sreedhar, TIST
18. Mr. Abin Phillip, TIST
19. Mr. Nidheesh P, TIST
20. Mr. Ginnas K John, RSET, Deputy/Assistant Cluster Convener
21. Mr. Rony Antony P, RSET, Assistant Cluster Convener
22. Ms. Anita John, RSET, Assistant Cluster Convener

Apologies

1. Principal, ASIET
2. Principal, FISAT
3. Principal, MEC
4. Principal, TIST
5. Principal, KMEA (M.Tech courses are currently not offered in this Institution)
6. Principal, CKC (M.Tech courses are currently not offered in this Institution)

CGPC Recording link:

<https://drive.google.com/file/d/1tv3HVVWl6qsqjFeyuzThtxZKRVRJBPMU/view?usp=sharing>

Enclosures:

1. Curriculum and Syllabus of the following Courses
 - (a) Artificial Intelligence and Data Science
 - (b) Cyber Security
 - (c) Data Science

