DEPARTMENT OF DATA SCIENCE
St. JOSEPH'S COLLEGE (Autonomous)
Special Heritage Status awarded by UGC, College with Potential for Excellence by UGC
Accredited at 'A++' Grade (4th Cycle) by NAAC, DBT-STAR & DST - FIST Sponsored College
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Minutes of the Board of Studies Meeting

The Board of Studies meeting of the Department of Data Science was held on **18-5-2021 (Tuesday)** at **2:00 p.m.** in the Google classroom to pass and ratify the University recommended 2020 M.Sc., (Data Science) syllabus which had been fit into the PG course pattern of St. Joseph's College (Autonomous), Trichy; to pass the 2021 LOCF based M.Sc., (Data Science) syllabus; to get the approval for the question paper pattern based on 2021 LOCF based M.Sc., (Data Science) syllabus as well as for the eligibility requirements for MSc (Data Science)

The following experts were present

- **Dr. H. Karamath Ali**, Associate Professor, (University Nominee)
  Department of Computer Science,
  Periyar E.V.R. College (Autonomous),
  Tiruchirappalli-620 023
  E-mail: hkaramath@yahoo.com
  Mobile: +919443628962

- **Dr. S. Domnic**, Associate Professor, (Subject Expert)
  Dept. of Computer Applications
  National Institute of Technology,
  Tiruchirappalli – 620 015.
  E-mail: domnic@nitt.edu
  Mobile: 9994904763

- **Dr. P. Anandkumar**, (Industry Expert)
  Director & Corporate Trainer,
  ROOT-IT Learning Centre II Floor,
  BKG Building, No.86, Madurai Road,
  Tiruchirappalli – 620 008.
  E-mail: root.anand@gmail.com
  Mobile: 9790636324

Dr. Y. DOMINIC
Dean-School of Computing Sciences
St. Joseph's College (Autonomous)
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The following faculty members were present

1.	Dr. L. Arockiam	Associate Professor & Head i/c
2.	Dr. V. Arul Kumar	Assistant Professor
3.	Dr. I. Priya Stella Mary	Assistant Professor
4.	Dr. M. Kirushanth	Assistant Professor

The meeting started with a silent prayer. The external experts and the department faculty members were welcomed by Dr. L. Arockiam for the Board of Studies Meeting. He also explained that the M.Sc (Data Science) syllabus was framed to meet the equivalence eligibility, to focus on placements; to fit into the PG course structure and to provide room for accommodating any developments in the form of value added courses.

2020 M.Sc., (Data Science) Syllabus

The University recommended 2020 M.Sc., (Data Science) syllabus for various courses was presented for ratification. The external experts explored and approved the 2020 M.Sc., (Data Science) syllabus.

2021 LOCF based M.Sc., (Data Science) Syllabus

The 2021 LOCF based M.Sc., (Data Science) syllabus for various courses was presented. The external experts gave the following suggestions

- **Dr. S. Dominic** suggested to remove the **Data Mining** course **[Course code: 21PDS1AE01]** due to the repetition of data mining concepts in the **Machine Learning** course **[Course Code :21PDS2ES2A]**; emphasized the inclusion of **Operating System** course; suggested the inclusion of "*Basic Linear Algebra Concepts*"

- He also recommended to eliminate the repetition of topic "*Sampling Theory Concepts*" in **Statistical Computing [Course Code: 21PDS1CC01]** and **Time Series and Sampling Theory [Course Code: 21PDS3CC06]** courses.

- **Dr. P. Anandkumar** stressed the importance of offering **Object Oriented System Development** course **[Course Code: 21PDS1ES1B];** suggested to have **Python Programming** in semester I.

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- Finally, he recommended to include the **Artificial Intelligence** course in semester I.

- **Dr. H. Karamath Ali** also emphasized the inclusion of **Operating System** course.

Actions Taken

In M.Sc Data Science, inclusions /amendments /eliminations were done in the following courses as per the suggestions/recommendations received from the external experts:

1. The **Data Mining** course **[Course Code: 21PDS1AE01]** is replaced with the new course namely **Artificial Intelligence [Course Code: 21PDS1AE01]** and "*Linear Algebra*" is included as a unit in it.

2. The **Operating System Concepts and Unix** and **Basic Python Programming** are included as the value added courses in Semester I.

3. It is decided to offer the **Object Oriented System Development** course **[Course Code: 21PDS1ES1B]** as the second elective, If the staff workload could be managed.

4. In the **Statistical Computing** course **[Course Code: 21PDS1CC01]**, The "*Sampling Theory*" topic is replaced with the new topic "*Data Measurement, Collection and Classification; Skewness, Kurtosis and Moments*".

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Question Paper Pattern

The following Question Paper pattern based on 2021 LOCF based M.Sc., (Data Science) syllabus was presented and approved by the external experts

Table 1: A New Model for MID/END Test

FOR MID/END TEST			
DURATION: 2:00 Hours			**Max Mark : 60**
SECTIONS	**K- LEVELS**	**TYPE**	**MARKS**
SECTION –A	K1	No choice	6 x 1= 6
SECTION-B	K2	No choice	2 x 2 = 4
SECTION-C	K3, K4	Either /Or	4 x 5 = 20
SECTION-D	K5 ,K6	3 Out of 4	3 x 10 = 30
		Total	**60**

Table 2: A New Model for Semester Examination

FOR SEMESTER EXAMINATION			
DURATION: 3:00 Hours			**Max Mark : 100**
SECTIONS	**K- LEVELS**	**TYPE**	**MARKS**
SECTION –A	K1	No choice	10 x1= 10
SECTION-B	K2	No choice	10 x 2 = 20
SECTION-C	K3, K4	Either /Or	5 x 4 = 20
SECTION-D	K5 ,K6	5 Out of 6	5 x 10 = 50
		Total	**100**

Table 3: Assessment Pattern for Courses in Part - IV of LOCF Syllabus (2021-22)

S. No.	Course Title	CIA (Department)	Semester	Total Marks
1	Self-Paced Learning	25 + 25 = 50	50 Marks MCQ (COE)	100
2	Comprehensive Examinations	25 +25 = 50	50 Marks (MCQ) (COE)	100
3	SEC: SOFT SKILL(For UG and PG)	100	(Fully Internal)	100
4	Internship (Three Weeks during summer vacation)	100	(Fully Internal)	100
5	Project	100	100	200
6	Ability Enhancement Course for PG **(Refer Table 4 & 5 for Evaluation Pattern)**	50	50	100

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Table 4: A New Model for AEC Internal Test

FOR AEC INTERNAL TEST			
Type	**K Levels**	**TYPE**	**Marks**
Two Components (2x10)	K1-K6	Assignment/Seminar	20
Written Test *			30
		Total	**50**
DETAILS FOR THE AEC WRITTEN TEST *			
DURATION: 2:00 Hours			**Max Mark : 50**
SECTIONS	**K- LEVELS**	**TYPE**	**MARKS**
SECTION –A	K1	No choice	2 x 1= 2
SECTION-B	K2	No choice	2 x 2 = 4
SECTION-C	K3, K4	Either /Or	2 x 4 = 8
SECTION-D	K5 ,K6	2 Out of 3	2 x 8 =16
		Total	**30**

Table 5: A New Model for AEC Semester Examination

FOR SEMESTER EXAMINATION			
DURATION: 3:00 Hours			**Max Mark : 50**
SECTIONS	**K- LEVELS**	**TYPE**	**MARKS**
SECTION –A	K1	No choice	5 x 1 = 5
SECTION-B	K2	No choice	5 x 2 = 10
SECTION-C	K3, K4	Either /Or	5 x 4 = 20
SECTION-D	K5 ,K6	2 Out of 3	2 x 7.5 = 15
		Total	**50**

Eligibility Requirements for MSc (Data Science)

The following eligibility requirements for the admission into M.Sc., (Data Science) Course were discussed and approved by the board members

- **B.Sc. (CS), B.Sc. (IT), BCA, B.Voc. (Software Development).**
- **B.E. / B.Tech. Degree in Computer Science, Information Technology.**
- **Any B.Sc. Degree with Mathematics / Statistics as allied subject.**

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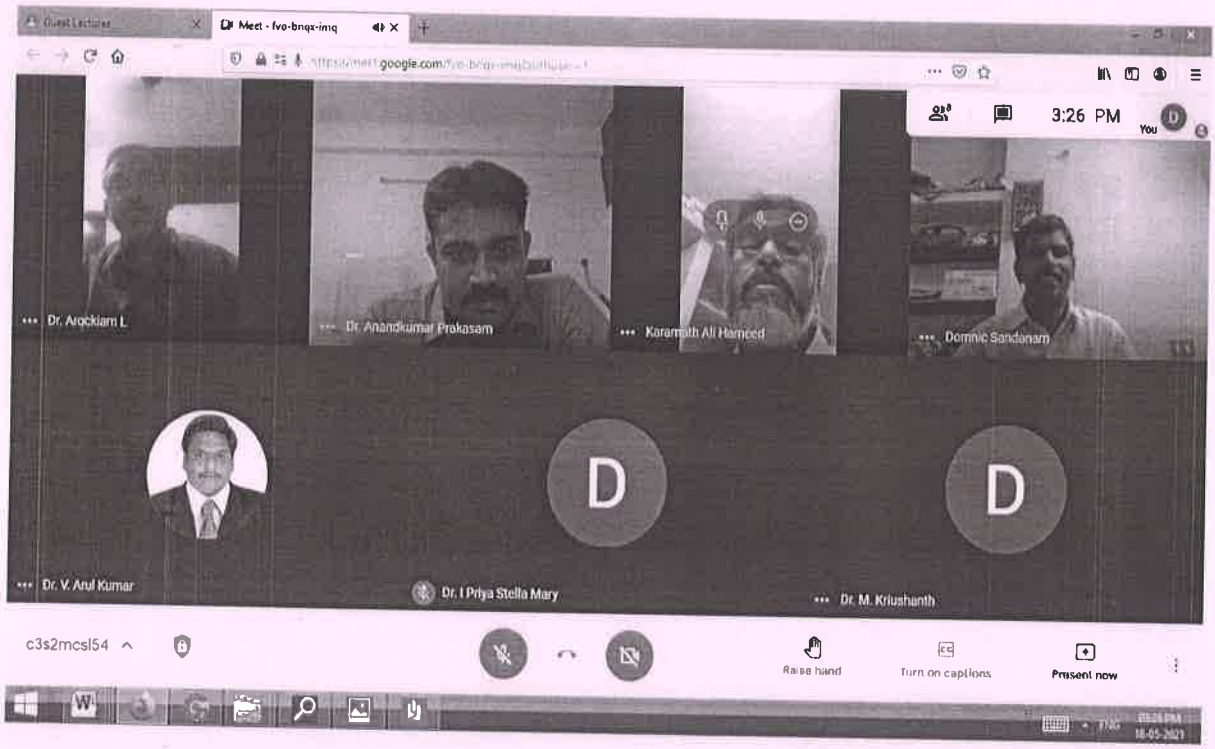
The meeting ended with a vote of thanks proposed by Dr. M. Kriushanth

1. Dr. H. Karamath Ali	Associate Professor	
2. Dr. S. Domnic	Associate Professor	
3. Dr. P. Anandkumar,	Director & Corporate Trainer	
4. Dr.L.Arockiam	Associate Professor & Head I/C	
5. Dr.V.Arul Kumar	Assistant Professor	
6. Dr.I.Priya Stella Mary	Assistant Professor	
7. Dr.Kirushanth	Assistant Professor	

Screenshots



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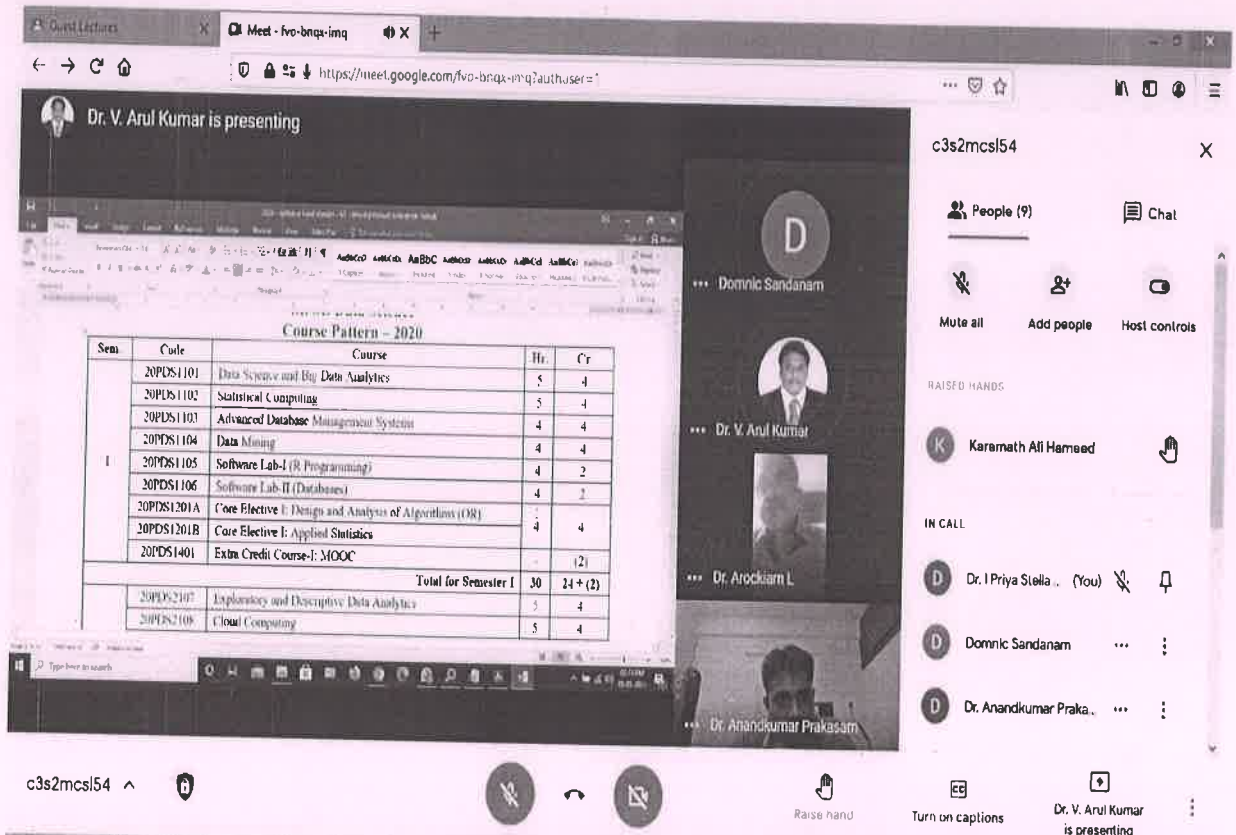

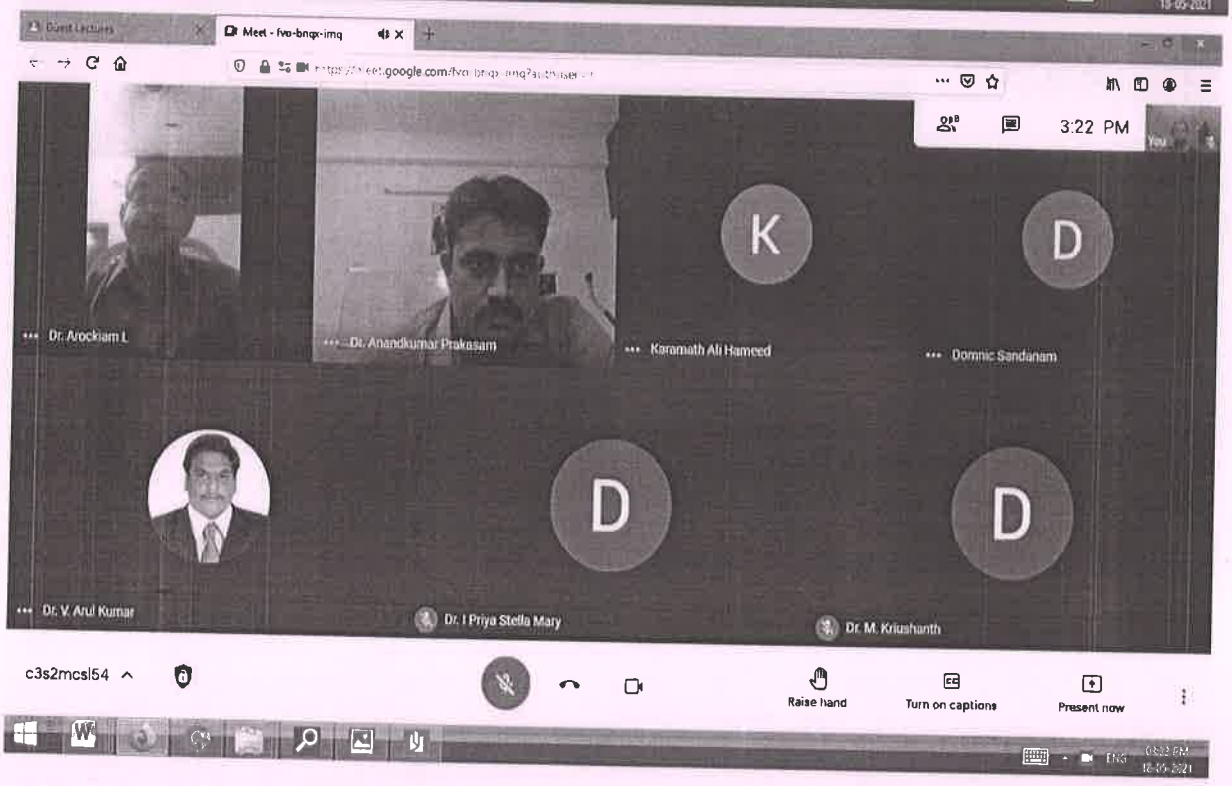

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