

2020 - 21.

CHRIST (Deemed to be University)
Department of Mathematics

Feedback on curriculum : Action taken report

Highlights of the Comments received through the feedback on Curriculum:

1. Standard of courses taught can possibly be higher and get students to think more than just memorize proofs etc. it will help a lot for later life and further studies
2. The curriculum could have been a little in depth focusing more on theory for building the foundation.
3. The combination is really good.
4. CIA components are reduced and provide enough time to focus more on understanding pure mathematical concepts
5. Career development courses need to be bumped up to ensure students are ready for their next step, may it be taking up work or further education. Personally, I would have loved some subjects involving data analytics.
6. Excellent curriculum. I would recommend if one more elective is made available on data storytelling aspects, generating insights and how to communicate those to the business leaders who does not understand the 'math'
7. There is a scope to increase on the technology part of the syllabus, like for maths we can use more relevant software than maxima or scilab. Python can be a good option. Improvement in this side is expected.
8. The syllabus has been prepared to meet the industry standards. Also consider having a lot of talks to keep the students up to date
9. The topic Integral Calculus is an important one. It has a lot of applications throughout. If the paper is made compulsory for the students then it would be much more helpful as Integration has applications in diverse fields.
10. The syllabus adheres to the global needs.
11. It is a good syllabus, takes care of the present needs and it is of international standard.

Action Taken:

As per the feedback received for the last few years,, the following courses were introduced:

MAT681 - Project on Mathematical Models

The courses Graph Theory, Mathematical modelling and Operations Research (along with their practical courses) were swapped with the courses Number Theory, Numerical Methods and Financial Mathematics (along with their practical courses) respectively in order to facilitate the UG project in the final semester.

Two courses MTH4409 - Topological Graph Theory and MTH4410 - Algebraic Graph Theory, were introduced as elective courses to intensify the research oriented curriculum.



HEAD

Department of Mathematics,

Minutes of 13th meeting of Board of Studies of Department of Mathematics held on 05.02.2020 at 10.00 am in Room no: 119, Block IV, CHRIST.

In the Chair: Dr T V Joseph, Head of the Department

Members Present: Details are mentioned in the attendance sheet.

Declaration of the Quorum and calling the meeting in order:

The Chairman declared the validity of the Quorum and called the meeting to order.

Matters of the agenda:

1. Confirmation of minutes of the previous meeting held on 01.02.2019:

The minutes of the previous meeting of Board of Studies was duly reviewed and approved.

2. Recommendations for B.Sc curriculum:

After the briefing of proposed changes in B.Sc curriculum by the Chairman, the following are the suggestions made.

- In reference to the Mathematics project as an elective in sixth semester, a suggestion was made to be flexible in the choice of topics for the project.
- To allow the students to do MOOC courses relevant to project work.
- To remove Set theory topics and to add combinatorics in the course of Discrete Mathematics of B.Sc (Data science) curriculum.
- To remove the topic Page rank and to add Prims and Kruskals algorithm to find minimum spanning trees in practical paper of the course Graph Theory of B.Sc (Data science) curriculum.

The proposed changes in the B.Sc curriculum were unanimously approved by the members present subject to the changes incorporated based on the suggestions made.

3. Recommendations for M.Sc curriculum:

After the briefing of proposed changes in M.Sc curriculum by the Chairman, the following are the suggestions made.

- To add Grammar and plagiarism tools in Research methodology paper.
- To add the book "An introduction to statistical learning with Applications in R" (ISLR) as a recommended reading for the course MTH211-Machine learning.

The proposed changes in the M.Sc curriculum were unanimously approved by the members present subject to the changes incorporated based on the suggestions made.

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4. Recommendations for M.Phil curriculum:

There is no changes suggested for M.Phil. Curriculum.

5. Recommendations for PhD curriculum:

There is no changes suggested for Ph.D. Curriculum.

6. Review of the results of ESE April and October 2019 of B.Sc, M.Sc and M.Phil programmes:

The result analysis of the End semester examinations of B.Sc, M.Sc and M.Phil programmes was reviewed and was found satisfactory.

7. Approval of the Board of Examiners for the academic year 2020-2021:

The updated list of examiners of the Board of Examiners was reviewed and approved.

8. Research activities of the department:

Research activities of the department and the policies were discussed and approved. Publications of the department were found satisfactory.

9. Any other matter:

The following are the suggestions made for overall progress of teaching and learning activities of the department

- To apply new pedagogy (inductive/deductive) in teaching.
- To update the web links for references.
- To introduce Theory of equations and Polynomials- Fitting of curves in B.Sc (Data science) curriculum.
- To consider including Ito calculus in Financial Mathematics course in the coming years.
- To introduce Reinforcement learning, Text analytics and Natural Language Processing for Data science students in M.Sc curriculum.
- To introduce Optimization Techniques course in M.Sc Mathematics curriculum.



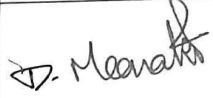

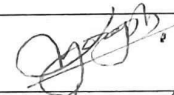
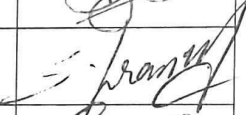
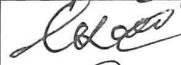

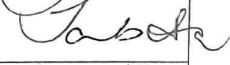
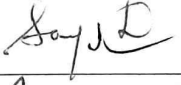
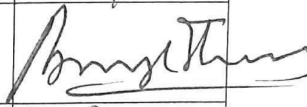


With no other matter to discuss, the Chairman adjourned the meeting by thanking the experts and the members for their presence and suggestions.

CHRIST (Deemed to be University), BANGALORE

Department of Mathematics

BOS Meeting

BOS meeting of the Department of Mathematics was held on February 05, 2020.
The following members were present:

Sl. No.	Name	Position (BOS)	Signature
1	Dr T V Joseph (Chairman) Professor and HOD, Department of Mathematics, CHRIST, Bengaluru - 29.	Member	
2	Dr A S Vasudeva Murthy, Professor, TIFR Centre for Applicable Mathematics, Bengaluru.	Member	
3	Dr Meenakshi D'Souza, Assistant Professor, Indian Institute of Information Technology, Bengaluru	Member	
4	Dr. Purushothama Chippar, Professor, St Joseph Engineering College, Mangalore.	Member	
5	Dr Fr Joseph Varghese, Professor	Member	Absent
6	Dr Mayamma Joseph, Professor	Member	
7	Dr S Pranesh, Professor	Member	
8	Dr Gangadhar S K, Associate Professor	Member	
9	Dr Hari Baskar R, Associate Professor	Member	
10	Dr Paradesi Tabitha Rajasekar, Assistant Professor	Member	
11	Dr Sangeetha Sathish, Assistant Professor	Member	
12	Dr George Thomas, Dean of Sciences, CHRIST, Bengaluru - 29.	Invitee	
13	Dr Smita Nagouda, Associate Professor	Invitee	
14	Dr Mahantesh B, Assistant Professor	Invitee	

15	Dr Sudev N K, Assistant Professor	Invitee	<i>Sudev</i>
16	Dr Charles Dominic, Assistant Professor	Invitee	<i>Charles</i>
17	Mrs Neha Anam, A Student Representative	Invitee	<i>Neha Anam</i>
18	Ms. Kruthika Kulkarni, Advanced Analytics Consultant, Wells Fargo, Bangalore. (Alumni)	Invitee	<i>Kelka</i>
19	Dr Antony Puthussery, Associate Professor	Invitee	Through Skype
20	Dr Riya Baby, Assistant Professor	Invitee	Through Skype

(10/05)
05/02/2020

