Minutes of 12th meeting of Board of Studies of Department of Mathematics held on 01.08.2018 at 11.00am in Room No:110, Block IV, CHRIST.

In the Chair: Dr TV 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. Recommendations for PhD curriculum:

After the briefing of the newly delegated duty to the Department of Mathematics of conduct and administration of PhD course by Center for Research, the following are the suggestions made.

- To schedule the coursework of 40 credits for the first six months and complete it by end of December
- To form a Doctoral Advisory Committee comprising of Dean of Sciences, Head of the Department, Supervisor, Internal expert, External expert and one Interdisciplinary expert
- To make guide allotment after completion of coursework
- To insist on three publications before submission of thesis.
- The course content of the following papers were presented for approval
 - a. PhD 132 Mathematics Writing
 - b. PhD 133 Research Publications
 - c. PhD 138A Fluid Mechanics Research Skills
 - d. PhD 138B Graph Theory Research skills
 - e. PhD 139 Mathematics Tools for Researchers

The suggestions were unanimously approved by the members present subject to the changes incorporated based on the suggestions made. The following are the suggestions

- To insist on two publications and accept a communicated submission if approved by DAC
- Guides to maintain high standards of research and allow publications in reputed journals
- To give students exposure to core topics by permitting them to attend classes held on their core papers
- To hold seminars for students to present results on topics of their choice to evaluate their original aptitude for research

2. Research activities of the department:

Research activities of the department and its policy were discussed and approved.

3. Any other matter:

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



DEPARTMENT OF MATHEMATICS

BOS meeting of Department of Mathematics was held on 1ST February 2018. The following members were present.

SI. No.	Name and Position	Member/ Invitee	Signature
1.	Dr T.V. Joseph	Chairman	(10 Jun)
2.	Dr (Fr) Abraham, Pro – Vice Chancellor, Christ University	Member	
3.	Dr (Fr) Joseph Varghese	Member	
4.	Dr S Pranesh	Member	5- Graning
5.	Dr Mayamma Joseph	Member	Og Oph
6.	Dr. Gangadhar S Kanalli	Member	Cicle
7.	Dr Hari Baskar R	Member	All-L
8.	Dr Smita Nagouda	Member	fint .
9.	Dr Sangeetha George	Member	dugolle
10.	Dr Sangeetha Shathish	Member	SurgHD
1.	Dr Paradesi Tabitha Rajasekar	Member	Tago da
2.	Dr B Mahantesh	Member	
3.	Dr Surendra Kulkarni, Dean of Sciences	Member	Sular
4	Dr G D Veerappa Gowda, Dean, TIFR Centre for Applicable Mathematics, Bangalore	Invitee	
5.	Dr. Meenakshi D'Souza, Associate Professor, Indian Institute of Information Technology, Bangalore.	Invitee	. Meenga
6.	Dr. B Sury, Professor, Indian Statistical Institute, Bangalore.	Invitee	
7.	Dr. Abhinanda Sarkar, Associate Dean, MYRA School of Business, Stanford University, USA	Invitee	Asu
3. I	Or Surendra Kulkarni, Dean of Sciences, Christ University.	Invitee	Julintha Juliantha

Minutes of 11th meeting of Board of Studies of Department of Mathematics held on 01.02.2018 at 10.00am in Board Room, Auditorium Block, CHRIST.

In the Chair: Dr TV 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 09.02.2017: 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.
 - To introduce a course on Discrete Mathematics with topics like Logic, Recurrence relations and Set theory.
 - Partial ordered sets to be included as the first topic in Unit 3(Lattice Theory) of MAT642C - Computational and Applied Mathematics.
 - To include the topic Trees and Networks and exclude the topic Coloring in Unit 3 of the elective course MAT642D- Graph Theory

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 include Recurrence Theory and exclude Approximation and Randomization Algorithms in Unit IV of the elective course MTH447-Design and Analysis of Algorithms.
- To introduce an elective course on Simulation and Random Number generation or incorporate these topics in the course Mathematical Modelling
- To include topic Symbolic Mathematics in the lab courses
- To introduce Libraries for Differential Equations in Python in the lab courses
- To include topics Onto functions and Stirling Numbers in the course MTH448-Combinatorial Mathematics and include textbook Graham, Ronald L., et al. "Concrete mathematics: a foundation for computer science." Computers in Physics 3.5 (1989): 106-107. as Recommended Reading

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.

4. Recommendations for M.Phil curriculum:

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

5. Review of the results of ESE April and October 2017 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.

6. Approval of the Board of Examiners for the academic year 2018-2019:

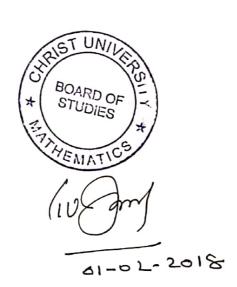
The updated list of examiners of the Board of Examiners was reviewed and approved.

7. Research activities of the department:

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

8. Any other matter:

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



CHRIST UNIVERSITY, BENGALURU

Changes in Curriculum

Deanery: Science Department: Mathematics Programme: MSc Mathematics

Course/Code/Unit	Existing Syllabus	Proposed Syllabus	Reasons for Change	Remarks
MTH151	Nil	New Course Introduced	To enhance the computing skills relevant for use in Mathematics.	
		Course Title: Mathematics Lab using FOSS tools		
MTH251	Nil	New Course Introduced Course Title:	To enhance the computing and programming skills relevant for use in Mathematics.	
		Mathematics using Python	To provide more electives based	
MTH447	Nil	New Course Introduced Course Title: Design and Analysis of Algorithms	on the Mathematics needed for computational aspects.	
MTH448	Nil	New Course Introduced Course Title: Combinatorial Mathematics	To provide more electives based on the Mathematics needed for computational aspects.	

Dean/Associate Dean

Registrar

CHRIST UNIVERSITY, BENGALURU

Changes in Curriculum

Deanery: Science Department: Mathematics Programme: BSc. (PCM, PME, CME, CMS, EMS)

Course/Code/Unit	Existing Syllabus	Proposed Syllabus	Reasons for Change	Remarks
MAT351	Real Analysis Using Maxima	Introduction to Python Programming for Mathematics	This course is introduced due to increased popularity and relevance of Python Programming in scientific computing. This course will be a prerequisite for learning any course on Mathematics by using Python	
MAT451	Algebra Using Scilab	Mathematical Model s using Python Programming	This course is introduced to give the students the familiarity in using Python programming for handling certain Mathematical Models	

Since the final year students (2016-2019 batch) are studying under CBCS system, the existing courses on Algebra, Algebra using Scilab, Financial Mathematics, Financial Mathematics using MAXIMA, Numerical Methods, Numerical Methods using MATLAB, Real and Complex Analysis, Analysis using MAXIMA, Fourier Series and Integral Transforms, Fourier Series and Integral Transforms using MAXIMA and Scilab, Operations Research, Operations Research using Scilab, offered for final year are completely removed and a new structure (with new courses) that is compatible with CBCS is introduced and is as follows:

Semester	Code	For 2016-2019 Batch		Course Type			otal Irs	Marks	Credit
	MAT541	Linear Algebra		DSE		1 4	45	100	3
	MAT551	Linear Algebra using Scilab		.P Mandatory	2	- 1	30	50	2
	MAT542	Integral Transforms			+	+	~	-	
	MAT542	Numerical Methods	\neg		- 1		- 1	- 1	
	MAT5420	Number Theory	DSE	Any One	3	Ι.	- 1 .		_
_	MAT542D	Calculus of Several Variables		. Ally One		4.	٦	100	3
٠ ا	MAT542E	Financial Mathemaics		1	1	-	- 1	- 1	- 1
L	MAT552A	Integral Transforms using Soilab	+	Choose a course in			\perp	\rightarrow	
	MA 1552B	BINumerical Methods using Callal		connection to DSE selected	.1	- 1		- 1	1 1
L.	MA1552C	Number Theory using Scilab	Hoor.	as elective in fifth semester.	1		1	- 1	- 1
μ.	VIA 1552D	Calculus of Several Variables using MAXIMA	-USE-I	(Eg. If you have chooses	2	30	5	0	2
N	MAT552E	Financial Mathematics using MAXIMA	7	MAT542A then you can	1				-
1	MAT641	Complex Analysis	DSE	only opt MAT552A)					- 1
1	MAT651	Complex Analysis using MAXIMA		Mandatory	3	45	10	0	3
IV	1A1642A)	Mechanics	DSE-P		2	30	50	1	2
N	1AT642B	Mathematical Modelling	-				1	-	-
M	IAT642C	1642C Computational and Applied Mathematics T642D Graph Theory T642E Operations Research T652A Mechanics using Scilah			3	45	100		- 1
171	A1042D			Any One				.	3
6 M	AT642E						1		°
M.	AT652A N				- 1		1		- 1
M	AT652B N	fathematical Modelling using Scilab	1 1	Choose a course in				+-	$\overline{}$
M	AT652C	Computational and Applied Mathematics using		connection to DSE selected as elective in sixth					
MA	AT652D G	raph Theory using Python	DSE-P	semester.	2	30	50	2	-
MA	AT652E O	perations Research using Scilab		(Eg. If you have choosen MAT642A then you can only opt MAT652A)			50	-	

HOD/Dept Coordinator

Dean/Associate Dean

Registrar

PANEL OF EXTERNAL EXAMINERS FOR POST GRADUATE PROGRAMS (Additions only)

Department: Mathematics

Course	Paper Name/s	Paper Code/s	Name of the Examiner	Qualification/s	Experience (Yrs)	Current Position/Institution
MPhil	Graph Theory	RMT241B	Dr Nagesh	M.Sc, Ph.D	10 years	PES, Bengaluru
MPhil	Graph Theory	RMT241B	Dr R Chandrshekaran	M.Sc,Ph.D	30 years	Professor, T. John College, Bengaluru
MPhil	Graph Theory	RMT241B	Dr. Naga Marutha Kumari	MSc, PhD	15 years	Associate Professor, Reva University;suma@re va.edu.in
MPhil	Graph Theory	RMT241B	Dr. Vishu Kumar M	MSc, PhD	10 years	Associate Professor, Reva University; vishukumar@revainst itution.org
MPhil	Graph Theory	RMT241B	Dr. Kumar Abhishek	MSc, PhD	25 years	Professor, Amritha Univeristy
MPhil	Graph Theory	RMT241B	Dr. J. Geetha	MSc, PhD	15 years	Asst. Professor, Amritha University
MPhil	Graph Theory	RMT241E	Dr. Radha Iyer R.	MS¢, PhD	8years	Asst. Professor, Amritha University

HOD/Dept Coordinator

Dean/Associate Dean

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Registrar

CHRIST (Deemed to be University) Department of Mathematics

Feedback on curriculum: Action taken report Academic year 2018-2019

Highlights of the Comments received through the feedback on Curriculum:

- 1. The quality of questions in the question paper of mid sem and endsem have to become better and challenging.
- 2. Syllabus of Real analysis has to be improved, beyond just sequence and series.
- 3. I feel in practicals, we should be taught a single software in all the six semesters so that we can master that. At present, we are learning three different softwares, but practically have learnt only to pass exams. If Matlab was taught throughout the six semesters, it would have helped us more.
- 4. The question paper should have new type of questions which are not covered in class so that understanding is checked
- 5. A few courses like number theory ,graph theory etc. should be provided as electives.
- An option to choose the second paper as an elective for final year students. This can
 include papers like Advanced concepts in Algebra, Numerical Analysis etc. This
 might provide more depth in specific topics of interest for a student to pursue higher
 studies.
- 7. To make the papers of numerical methods and operations research a little more concept oriented to avoid large calculations during examination. This will help to strengthen one's idea on the subject matter and its applications.
- 8. Also, for the practical aspect of OR, for a student not comfortable with the basics of programming, rote learning programs does not make any sense, as you learn something not just to write it on paper, but to actually use it in real life, and I know, I would never, if I am not writing the program on my own and no rote learning would teach me how to do it.
- Please look into the course for software papers. They are really difficult to cope with.
 If possible, the syllabus should try to cover topics for competitive exams. At present there is too much gap between students from very reputed institutes and our students.
- 10. The syllabus can provide in-depth knowledge, which it lacks. So much more can be taught in the specified subjects. Syllabus is a bit shallow. In place of Maxima and Scilab, MATLAB or Sci-py can be introduced. Maxima is good only for a semester.
- 11. The number of theorems in 5th and 6th sem needs to be reduced.
- 12. Syllabus is standardized as per the local, national and global needs.
- 13. Please introduce an option, in the third year, for students to specialise in one of the three subjects of their chosen fields.
- 14. The programme provides a good base for the future endeavours.
- 15. Thank you for your guidance and support Sir. I'm glad to see him grow not only in terms of academics but more importantly as a human being. Full marks to the department for giving him inputs beyond the textbook.

Action Taken:

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

- 1. MAT351 Introduction to Python Programming for Mathematics
- 2. MAT451 Mathematical modelling using Python Programming
- 3. MAT531 Linear Algebra
- 4. MAT551 Linear Algebra using Scilab
- 5. MAT541A Integral Transforms
- 6. MAT541B Numerical Methods
- 7. MAT541C Number Theory
- 8. MAT541D Calculus of Several variables
- 9. MAT551A Integral Transforms using Scilab
- 10. MAT551B Numerical Methods using Scilab
- 11. MAT551C Number Theory using Scilab
- 12. MAT551D Calculus of Several variables using MAXIMA
- 13. MAT631 Complex Analysis
- 14. MAT651 Complex Analysis using Maxima
- 15. MAT641A Mechanics
- 16. MAT641B Matnematical Modelling
- 17. MAT641C Computational and Applied Mathematics
- 18. MAT641D Graph Theory
- 19. MAT651A Mechanics using Scilab
- 20. MAT651B Mathematical Modelling using Scilab
- 21. MAT651C Computational and Applied Mathematics using Scilab
- 22. MAT651D Graph Theory using Python
- 23. MTH151 Mathematics Lab using FOSS tools
- 24. MTH251 Mathematics using Python
- 25. MTH447 Design and analysis of Algorithms
- 26. MTH448 Combinatorial Mathematics

MAT351, MAT451, MTH151 and MTH251 were introduced inorder to change the programming language oriented courses completely in Python only (This batch of students will continue with Python based courses in their final year also)

Elective courses along with the corresponding practicals were introduced to address the request to include more mathematics courses in the curriculum. (based on feedback of the past few years)

Note: The requests that are not considered this year will be considered during the curriculum revision in the upcoming academic years.

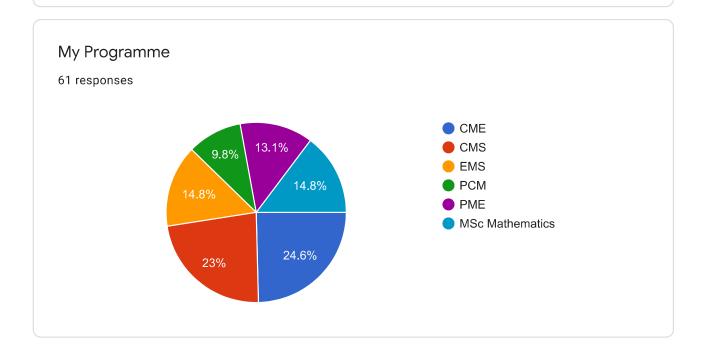
Department of Mathematics, CHRIST (Deemed to be University)

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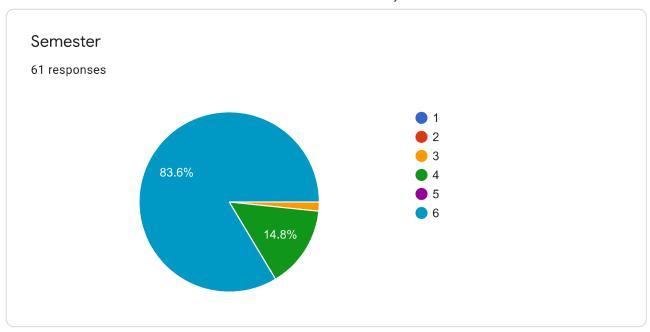
Student Feedback Survey on Curriculum

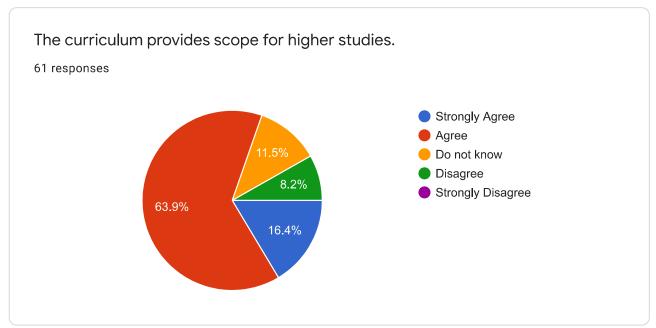
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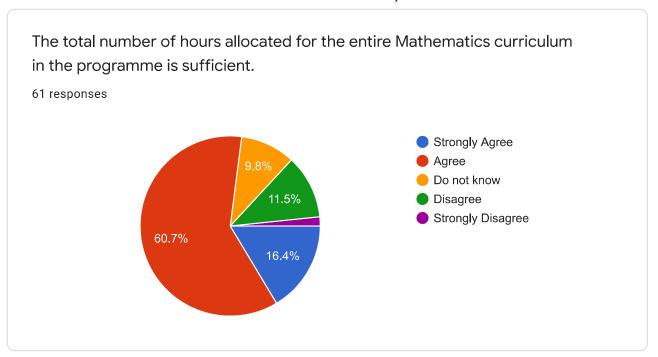


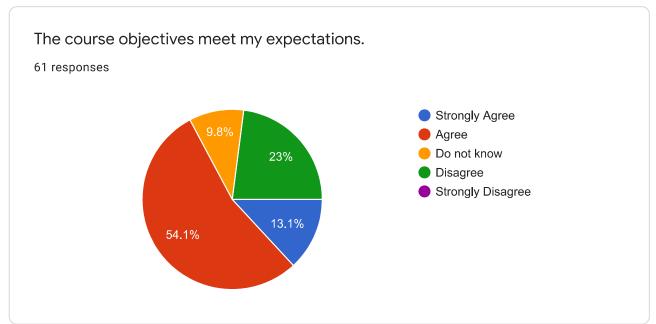




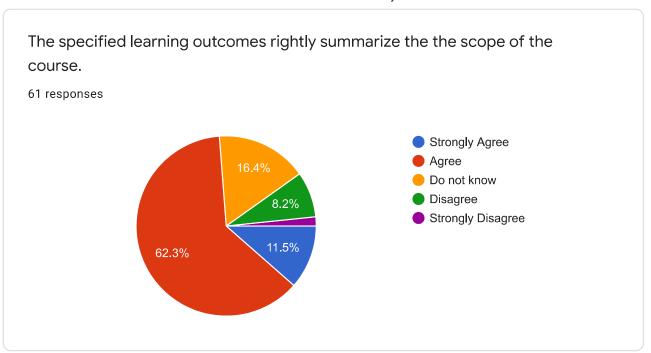


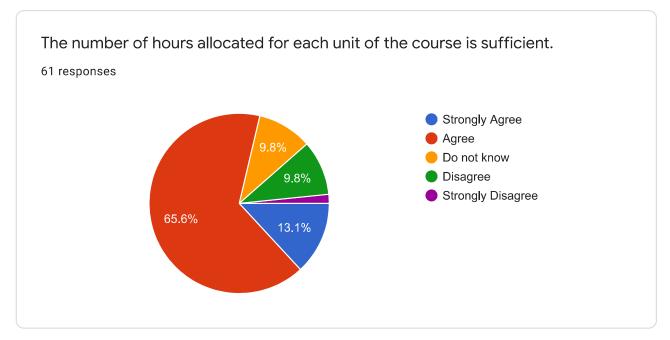




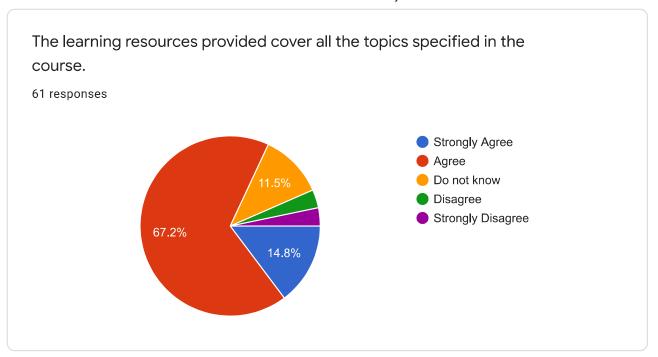


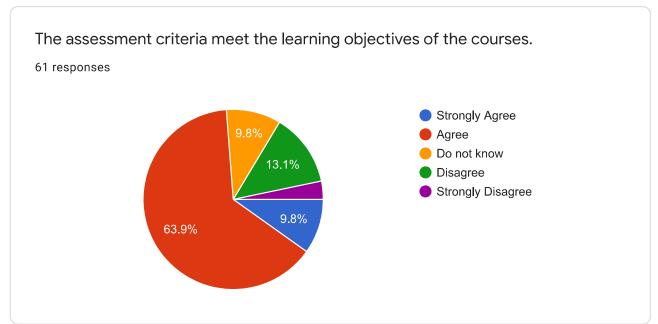




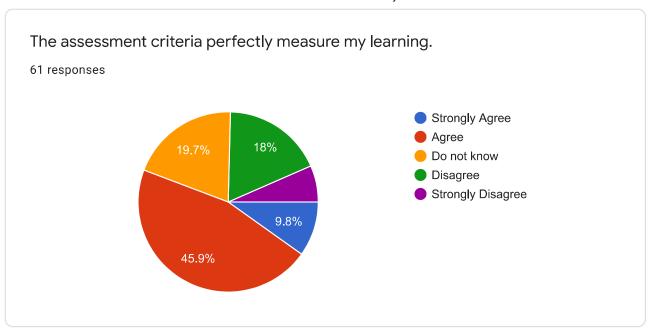












General Comments; if any:

9 responses

Good

Instead of Maxima and scilab, introduce Mathlab/Python which is not only a stronger tool but also simple to use

More priority should be given to core papers like analysis and algebra

Please don't push us into depression with two components of CIA. And allot teachers who really match our standard. We cannot cope with professors who are in stage of teaching Masters.

Core Mathematics paper should be given more importance.

Our Complex Analysis teacher is a highly skilled person with immense knowledge. He is best suited for masters students. The cia components were a real burden. With two projects to finish we really had to deal with a lot.

Thank you

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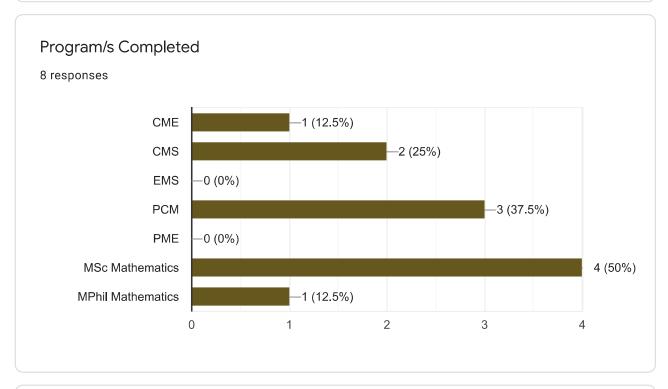


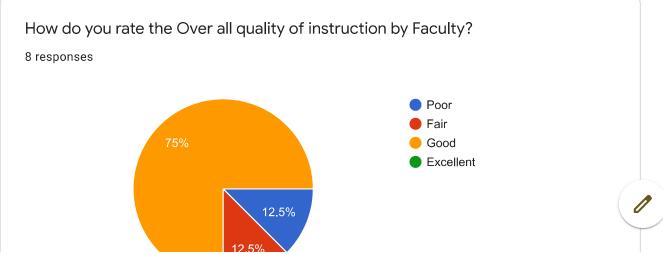


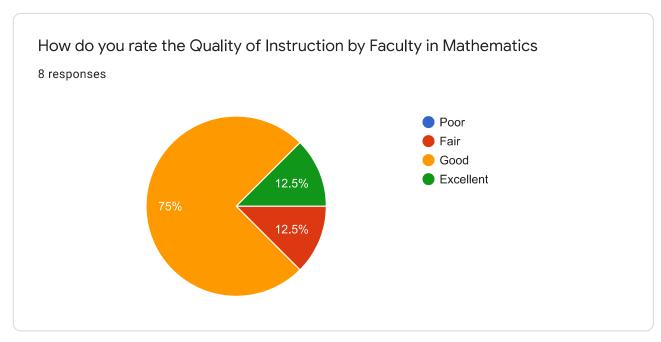
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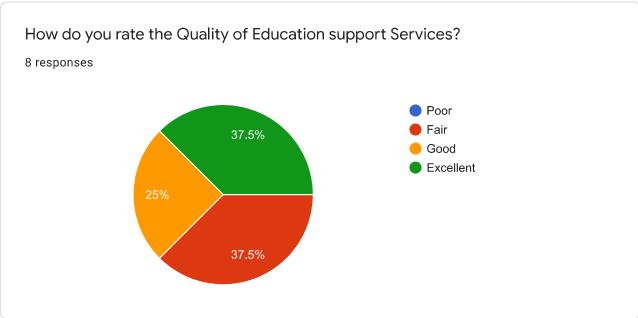
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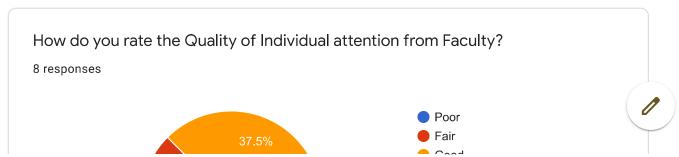
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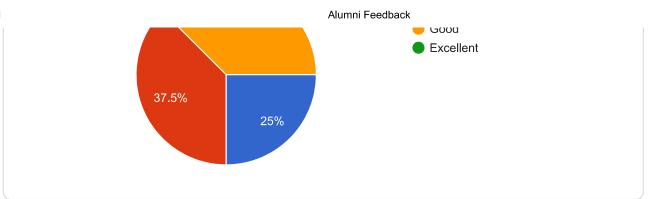






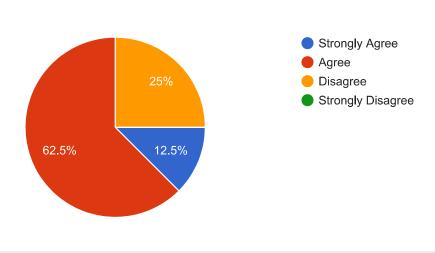


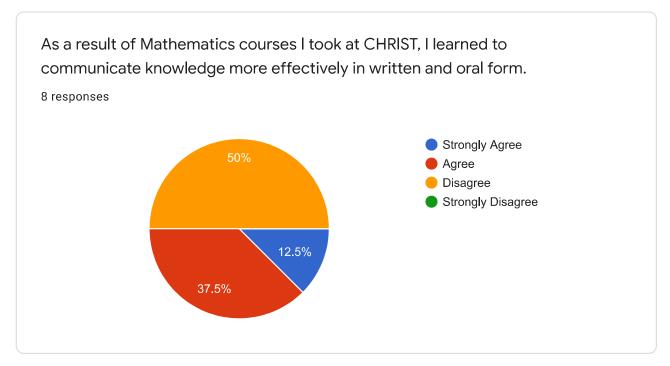
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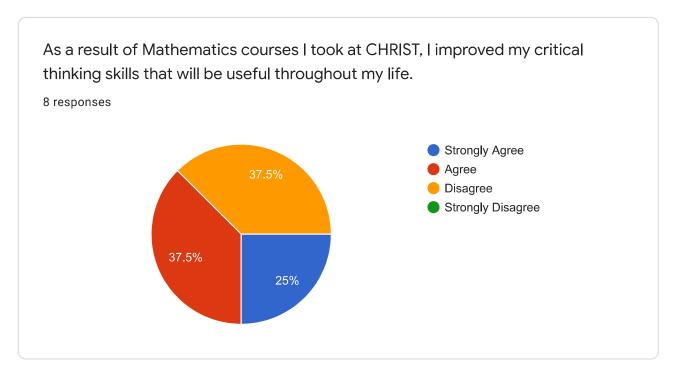
As a result of Mathematics courses I took at CHRIST, I learned to understand basic principles, methodologies and perspective in my discipline.

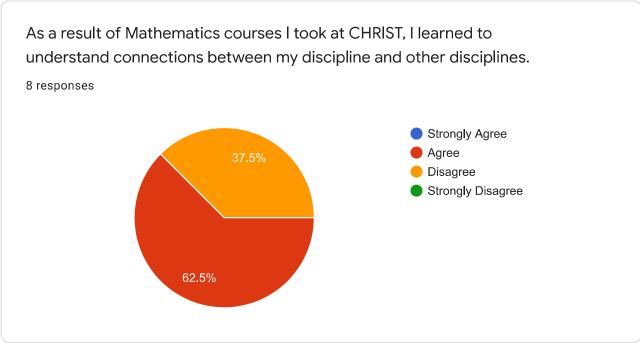
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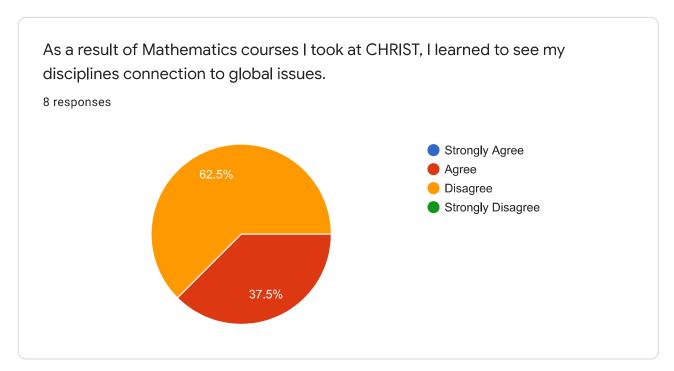


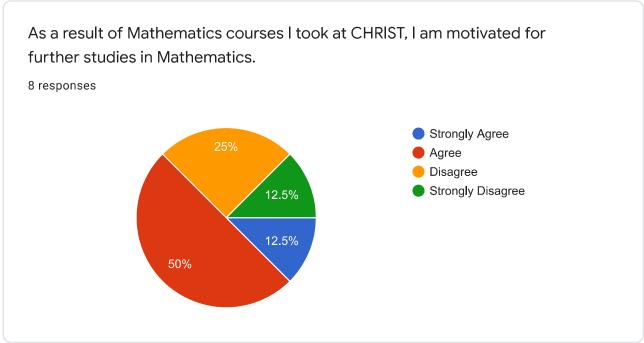




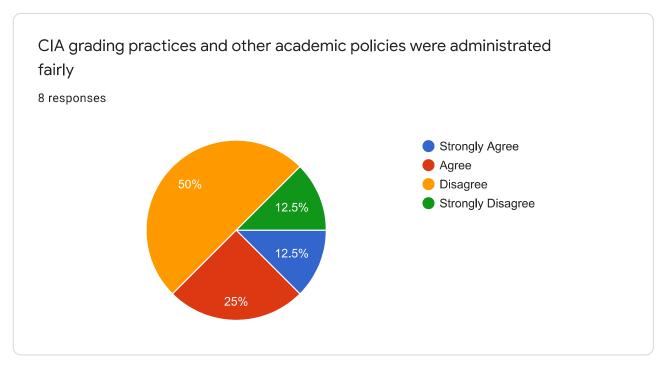


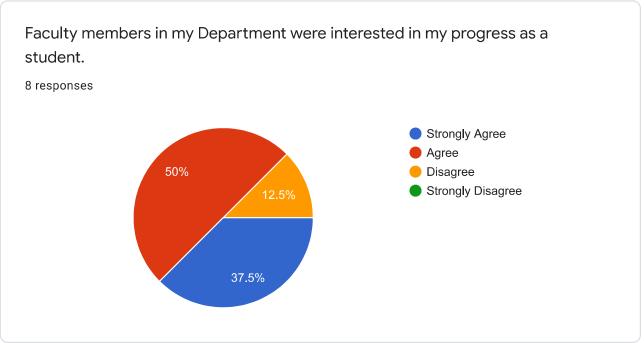




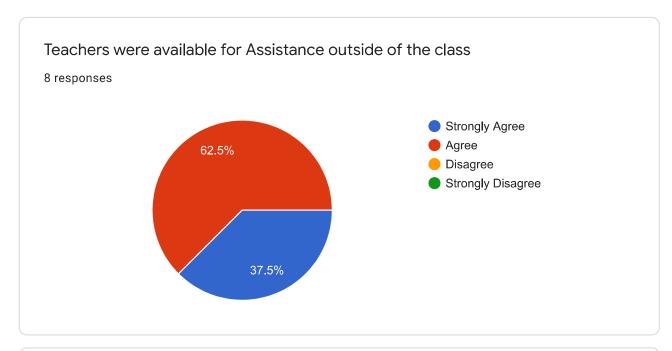


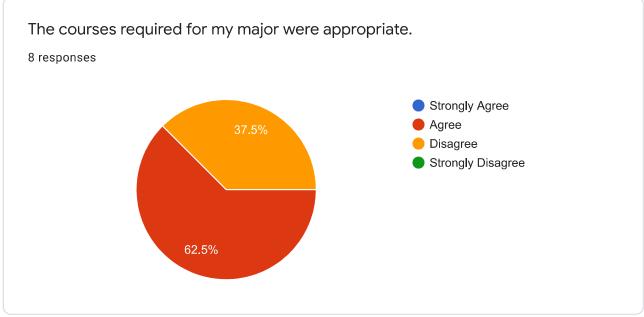


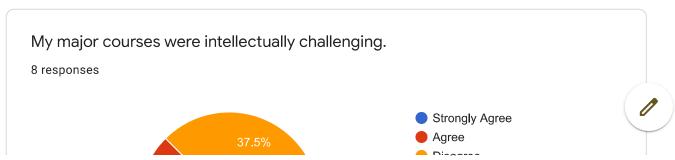




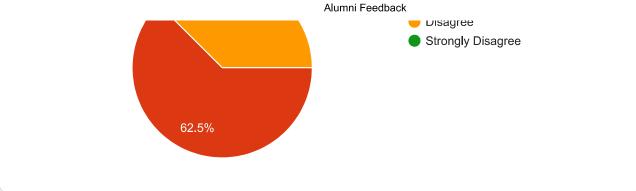


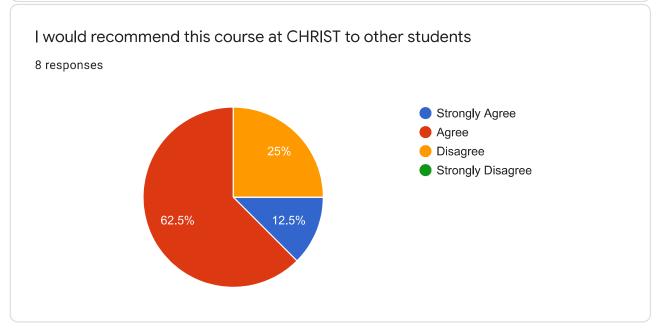












General Comments; if any:

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No responses yet for this question.

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Parents Feedback form

7 responses

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Name of the Parent

7 responses

Jose

Pius F Poovathingal

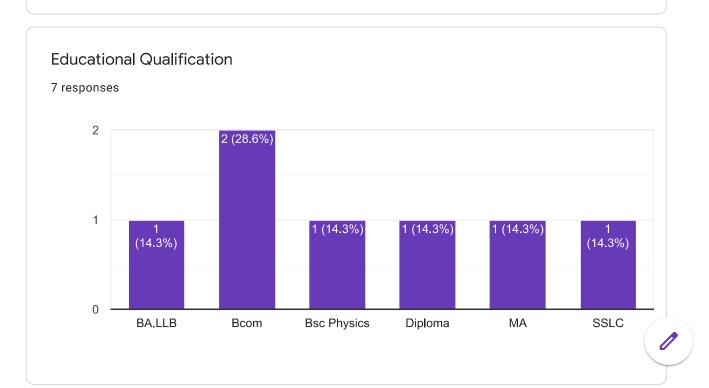
Sheela Thomas

Jhumka Chanda

Adv.Suresh Mathai

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Thomas C K



Organisation

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Business

State Bank of India

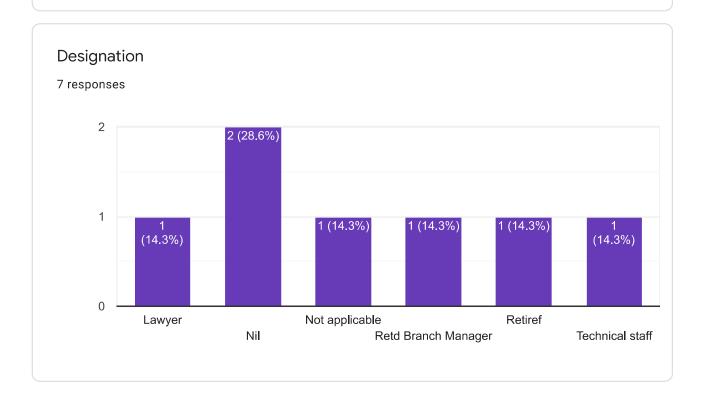
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Rebecca Thomas		
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Arjun Chanda		

Vrinda Mary Mathew

Aishwarya hariharn

Jojy Thomas C

Name of the Programme

7 responses

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Msc mathematics

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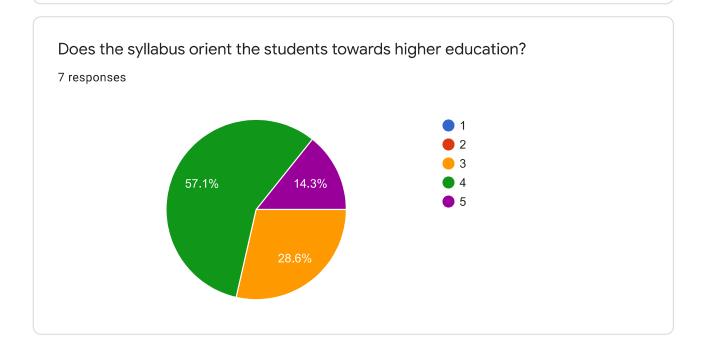
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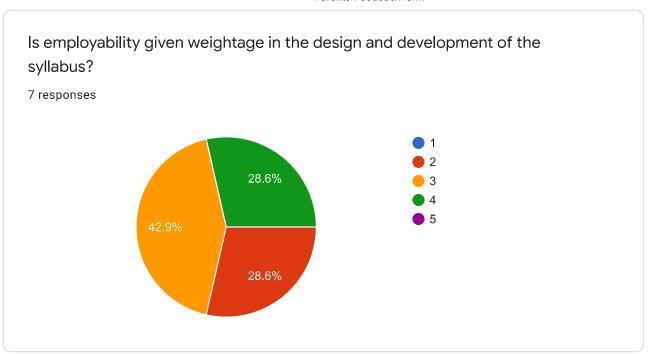
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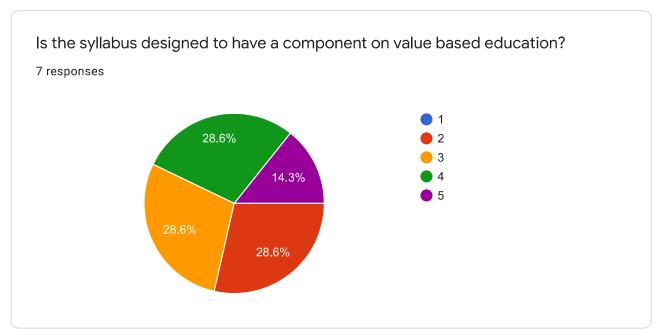
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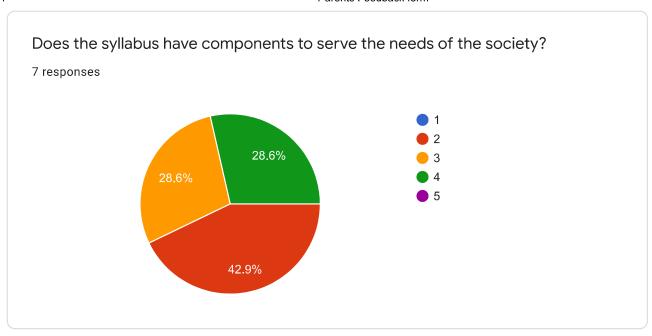


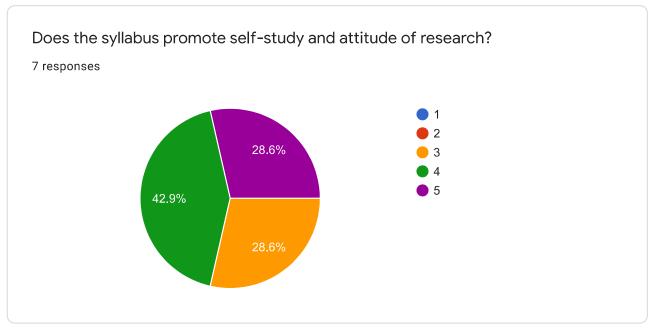


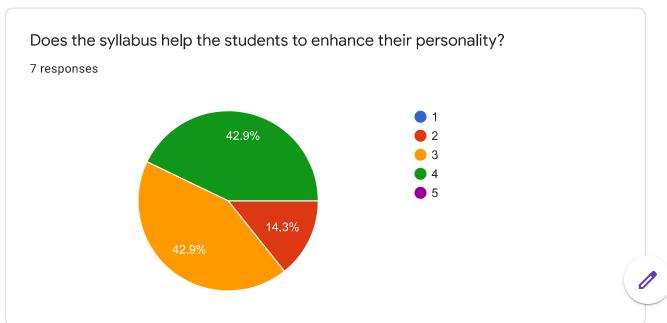












General Comments and Suggestions:

0 responses

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Teachers Feedback form

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Name of the Faculty Member

7 responses

HARI BASKAR R

B Mahanthesh

Anirban Roy

Smita S Nagouda

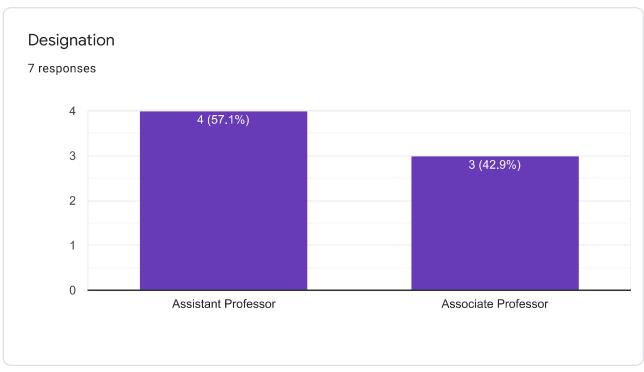
Sudev N K

CHARLES DOMINIC

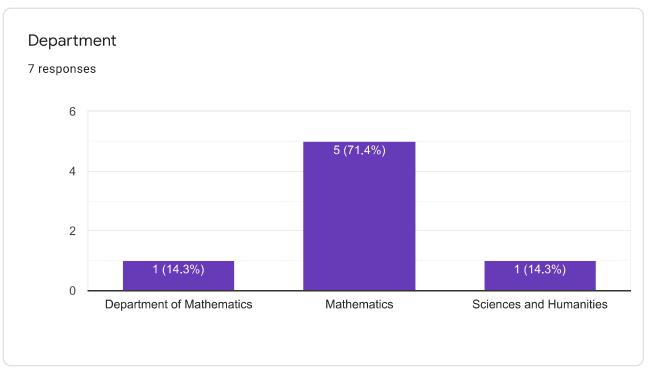
Sangeetha Shathish

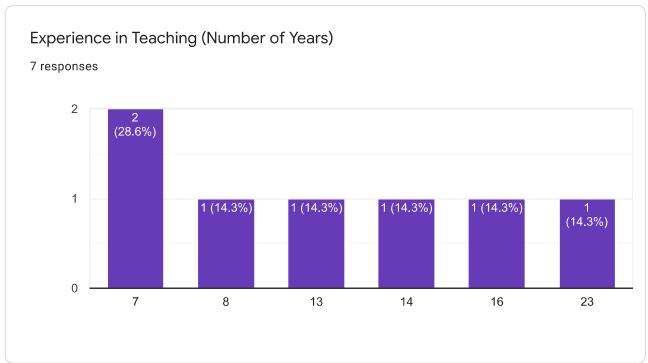




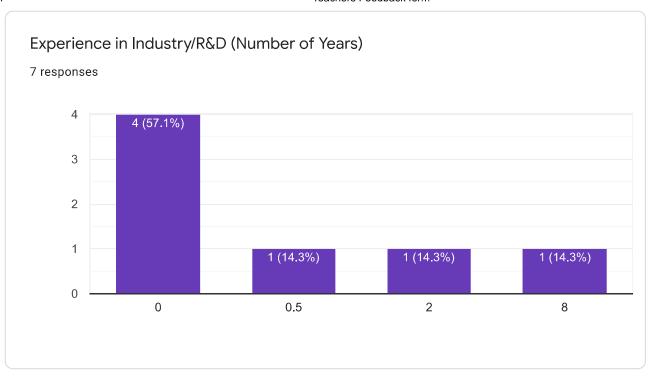


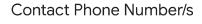












7 responses

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09164638219

+919845078784

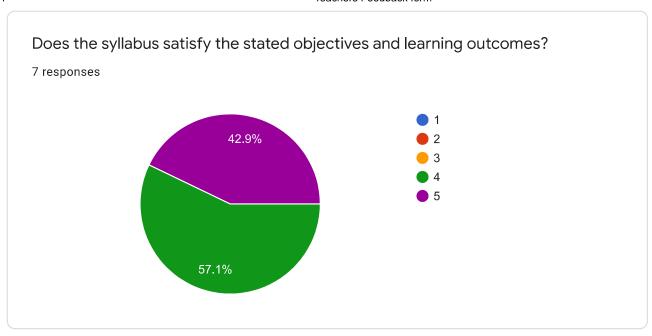
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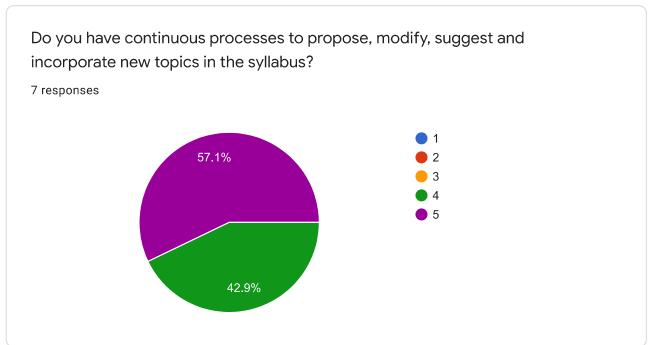
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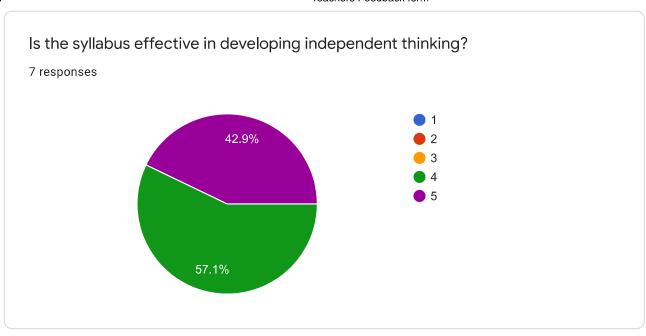
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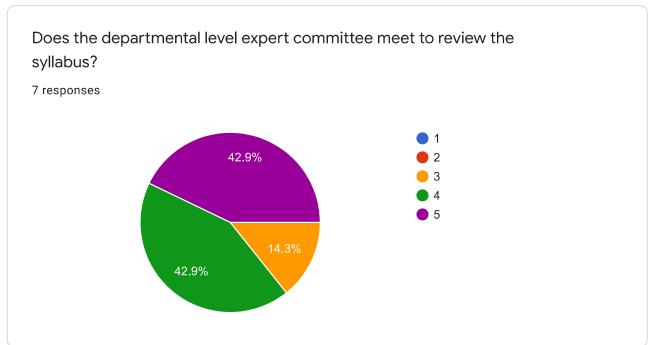




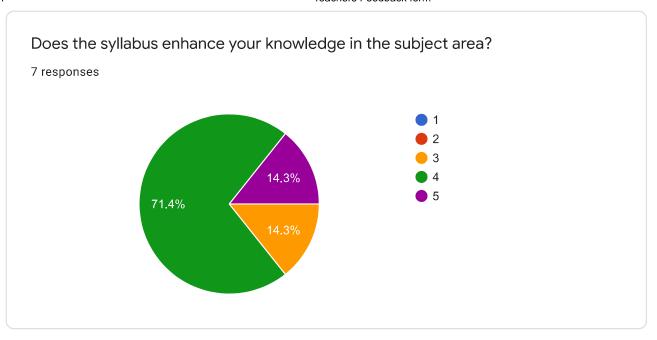


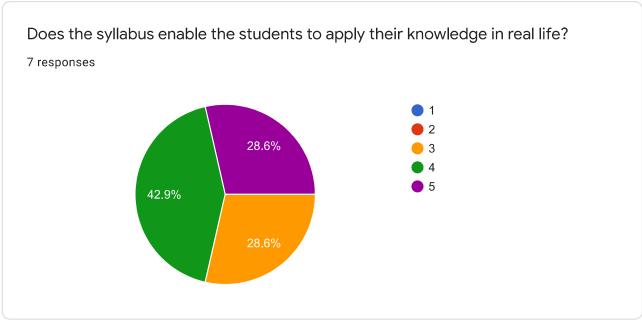


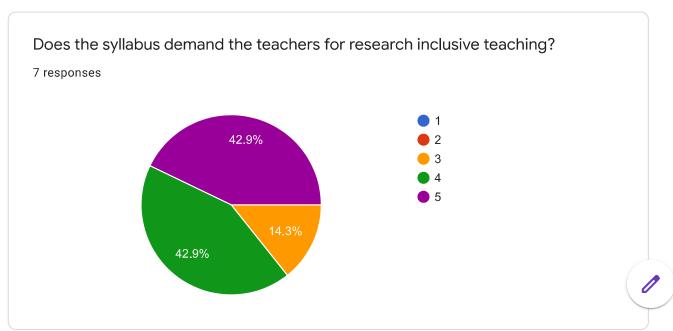












General Comments and Suggestions:

2 responses

NA

Every year corrections, modify and incorporate new topics in the syllabus is happening in BOS.

Everything systematically going good

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