

22-23:

- 1. Programme code (as found in the university syllabus): MATHEMATICS**
- 2. Name of the Programme with date of commencement:**

B.Sc Maths	:	1993-94;
M. Sc Mathematics	:	2012-13
- 3. Year of establishment** : **1993**
- 4. Papers Offered for study:** As per CU syllabus.
- 5. Details of Courses Offered:** B. Sc and M. Sc mathematics

- 6. Number of teachers recognized as research guides : 0**

- 7. Total number of full time teachers : 6**
- 8. Asst prof,** : **5 (Smt. Sujisha M K, Smt. Najmah A R, Sri. Sajeesh Kumar V K, Smt. Deepa V, Smt. Diviya A V)**
- 9.**

Assoct.prof	:	1 (Sri. Santhosh Kumar P K)
With PhD	:	1
With NET	:	6

- 10. Research projects funded by government and non government agencies during the year** : **Nil**

- 11. Detailed report of activities conducted by the department**
 1. National Mathematics Day Celebration on 22 December 2022.
(Invited talk by Dr. Babitha KV, Govt. College Madappally + Exhibition+ Film Show+ Game Zone+ Treasure Hunt using Math Puzzles+ Flash mob)
 2. Pi Day Celebration on March 14 (Flash Mob+ Puzzle + Film Show)
 3. PTA meeting for UG First Year : 6-2-23
UG Second year: 11-10-22
UG Third Year: 11-10-22
 4. Bridge Course started for UG first semester students using our first Semester PG students.
 5. Conducted certificate course in Latex (a globally accepted Mathematics typesetting software) for 10 students of 5th Semester UG Mathematics Class.
 6. Given training in Latex for 5th Sem UG and 4th Sem PG students using the above trained students.
 7. Conducted a seminar on “Career Opportunities in Mathematics” by Sri. Rajeevan P, District Employment Officer on 28-2-23.
 8. Conducted aptitude test for first year UG students on 30-09-2022.
 9. Conducted NET Coaching for Minority students under Calicut University.

12. Participation in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year

- Academic council/BoS of Affiliating University : Nil
- Setting of question papers for UG/PG programs :
 1. Smt.. Sujisha M K and Smt. Diviya AV prepared Q.P for UG Sixth semester Bsc Mathematics , Kannur University.
 2. Sri. Sajeesh Kumar VK, Chairman of UG Question setting Board, Kannur Uty
 3. Sri. Sujisha MK prepared Q.P for PG in Kannur University.
 4. Sri. Sajeesh Kumar VK prepared question paper for PG programme , Devagiri College(Autonomous)
 5. Smt. Sujisha M K prepared Q.P for PG program , Devagiri College (Autonomous)
- Design and Development of Curriculum for Add on/certificate/Diploma Courses Assessment/evaluation process of the affiliating University : **Nil**
- Number of teachers participated : NIL
- Name of the body in which fulltime teacher participated : NIL
- Total number of teachers : NIL

13. Names of the Add on/Certificate programs with 30 or more contact hours

- **No. of times offered during the same year : 1**
- **Total no. of students completing the course in the year : 10**

14. Courses that include experiential learning through project work/ fieldwork/ internship during the year

- Name of the Course : B. Sc and M. Sc (Project Work compulsory)
- Details of experiential learning through project work/ fieldwork/ internship : Project work in new innovative areas of Mathematics
- Name of the Programme : B. Sc and M. Sc Mathematics
- Number of students undertaking project work/fieldwork/internships: 37 UG and 20 PG

11. How does the dept. assess the learning levels of the students and organize special Programmes for advanced learners and slow learners

For first year UG classes, we conduct aptitude test for assessing the subject level. We conduct internal exams and seminars for all students in all semesters.

For slow learners, we conduct more exams for them till they reach the bench mark and while giving seminars, we are very keen to the selection of topic. Individual care will be given by the Tutors. Whenever demanded, remedial coaching is also given. Video classes are provided in common, which they can use for their study.

For advanced learners, seminars of high standards were given. NET and GATE coaching is also given using minority coaching fund of the college. They are also advised to join free online NET and GATE coaching group “Math Aspirants”, a successful free coaching group, organized by Dr. Vinod Kumar, Associate Professor of Mathematics, Govt.

College Tirur. Assignments also of high standard.

12. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences
Assignments, Seminars, Viva , Project work etc are given.

15. ICT enabled tools for effective teaching-learning process used.

In addition to the usual class room teaching, we provided corresponding videos prepared by us for enhancing effective learning. Geometrical models are taught using Geogebra, an open software. Some teachers are using MOODLE for effective teaching. Both UG and PG, projects were done using LATEX, an open software. Some are using Google Classroom for sharing Questions papers, video classes and study materials.

14. Number of fulltime teachers
with Ph.D./D.M./M.Ch./D.N.B Superspeciality/D.Sc./D.Litt. during the year: 1 (Dr. Santhosh Kumar P K)

15. Number of guest teachers:

16. Mechanism of internal assessment of the Dept.

Conducts internal exams at least 3 times in a semester. Assignments of various levels are given to students and time bound submission is instructed. All students are given seminars based on their capacity.

17. Mechanism to deal with internal examination related grievances:

Department has an internal redressal committee headed by HOD. Student can approach the committee directly. Committee will resolve the issue.

18. How does the Dept. evaluate the Programme outcomes and course outcomes and ensure their attainment:

Internal question papers are prepared based on COs in the syllabus. Course exit survey is also conducted to know the effectiveness of the course.

19. Total number of final year students(UG) who passed the university examination during the year : 23

- **Total number of final year students who appeared for the university examination during the year: 37**
- **Pass percentage : 62.2**

M. Sc:

Appeared : 19

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Passed : 15

Pass Percentage: 78.9

20. Number of workshops/seminars conducted: 2

Provide details of the following:

1. Name : Carrier Opportunities in Mathematics
National/International : Regional (Sri. Rajeevan, District. Employment Officer)
Funding Agency : PTA
Duration : FN session on 28-2-23
Number of Participants :100
Amount sanctioned : 3000/-
2. Name : Why Mathematics?
National/... : Regional (Dr. Babith KV, Asst. Prof of Mathematics, Govt. College Madappally)
Funding : PTA
Duration : FN of 22-12-22
Number of Participants: 90

22. How many teachers have registered for Ph.D: Nil

23. If Guide : NIL

24. Number of research papers per teachers in the Journals notified on UGC website during the year

- Title of paper : On a stronger notion of connectedness in c-spaces
- Name of the author/s : Dr.Santhosh PK
- Department of the teacher : Mathematics
- Name of journal : Algebra and Discrete Mathematics
- Year of publication : 2022
- ISBN/ISS Nnumber : 1726-3255

25. Total number of books and chapters in edited volume/books publishedandpapersinnational/ internationalconferenceproceedingsyearwiseduringyear

Nil:

26. Extension activities and outreach Programmes conducted with industry, community & Awards and recognition received for extension activities if any:

A

- Name of the activity : Extension
- Name of the scheme : Bridge Course (for both First UG main and Complementary students)
- Year of the activity : 2022-23
- Number of teachers participating in such activities : 2
- Number of students participating in such activities : 14 PG students

B

- Name of the activity : Outreach Programme
- Name of the scheme : Master's Colloquium (conducted by the Dept. of Mathematics, St.Aloysius College, Elathuruth)
- Year of the activity : 2022-23
- Number of teachers participating in such activities : 1
- Number of students participating in such activities : 11 PG students

27. Collaborative activities for research, Faculty exchange, Student exchange/internship year wise during the year: NIL

28. MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. NIL

29. *Capacity building and skills enhancement initiatives taken by the institution include the following*

- 1. Softskills*
- 2. Language and communication skills*
- 3. Lifeskills (Yoga, physical fitness, health and hygiene)*
- 4. ICT/computing skills*

- *Lifeskills (Yoga, physical fitness, health and hygiene): NIL*
- *ICT/computing skills : Projects done using mathematics typing software LATEX. Computer Science as the complementary subject in the B. Sc programme.*

30. Mechanism for timely redressal of student grievances at the Dept. level:

1. Implementation of guidelines of statutory/regulatory bodies

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2. Organization wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students 'grievances
4. Timely redressal of the grievances through appropriate committees

31. Number of placement of outgoing students during the year : NIL

- Name of the employer with contact details
- Number of students placed

Sl No	Student Name	Designation	Name of the employer	Contact details of Employer
1				
2				
3				
4				
5				
6				

32. Number of students progressing to higher education during the year Admission process going on.

33. Number of students qualifying in state/ national/ international level : examinations JAM/CLAT/NET/ SLET/ GATE/GMAT/CAT/GRE/ TOEFL/Civil Services/State government examinations : NIL

34. Number of students appearing in state/ national/ international level examinations(eg:JAM/CLAT/NET/SLET/GATE/GMAT/CAT,GRE/TOFEL/CivilServ ices/Stategovernmentexaminations)

NET: 10

35. Faculty participation/presentation of papers in Seminars/workshops:

Faculty	Paper Presented	Venue	Sponsoring Agency	Date
Santhosh P. K.	Recent Advances in Mathematics	Nehru College Kanghangad	KSCSTE	1-11-2022
Santhosh PK	Introduction to Calculus of Variations	SN College Chelannur	IQAC	6-1-23
Santhosh PK	Introduction to LATEX	Govt. College Madappally	IQAC	24-1-23

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Faculty Name	Name of the course	Duration and Date	Name of the Centre conducting the Course	Sponsoring Agency
Sujisha M K	Residential training Program	15-7-22 to 17-7-22	ISER	DCE
Sujisha M K	PDE and Applications	2-12-22 to 3-12-22	Kerala Varma College	Higher Education Council
Najmah AR	National Conference on Graph Theory	3 days, 8-6-22 to 10-6-22	Vellalar College for Women, Erode	ADMA
Najmah AR	International Conference on Graph Theory	3 days, 02-02-23 to 04-02-23	St. Alocious College Thrissur	DCE
Sajeesh Kumar V K	Capacity Building- Residential Training program for science teachers	15-7-22 to 17-7-22	IISER TVM.	IISER TVM. & Collegiate Education Dept., Govt. Of Kerala
Sajeesh Kumar V K	National Seminar on “New Knowledge Scenario and Teaching	24-03-2023	CSI retreat Center Kottayam	CSI retreat Center Kottayam & Association of Kerala Govt. College Teachers
Deepa V	Three day residential Orientation Programme for National Service Scheme Programme Officers	15-11-2022 to 17-11-2022	National Service Scheme, University of Calicut	National Service Scheme, University of Calicut
Diviya A V	Gender Sensitization Workshop	22-09-22	Dept.of women and gender studies, SPP , UK in collaboration with university of Calicut	Dept.of women and gender studies, SPP , UK in collaboration with university of Calicut
Diviya A V	Capacity Building-	15-7-22 to 17-7-22	IISER TVM.	IISER TVM. & Collegiate

	Residential Training program for science teachers			Education Dept., Govt. Of Kerala
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36. Faculty participation in Refresher/Orientation/Short term courses:

Sl.No	Faculty Name	Period of the course	Name of Course	No.of Days	Conducting Authority
1	Sajeesh Kumar V K	13-10-22 to 26-10-22	Online Refresher course in Mathematics	Two Weeks	UGC HRDC Centre, University of Kerala
2	Deepa V	1-2-23 to 2-3-23	Faculty Induction Programme	1 month	UGC-HRDC Kannur
3	Diviya A V	1-2-23 to 2-3-23	Faculty Induction Programme	1 month	UGC-HRDC Kannur