

**MAHATMA GANDHI COLLEGE, IRITTY****P.G Department of Mathematics****Activity Report - 2022-2023****1. University Results 2021-2022****i) MSc Mathematics (2020-2022 Batch)**

Total strength : 25

Passed : 21

Pass Percentage : 84

**Topper : Aswathi K (University Fourth Position)****ii) BSc Mathematics (2019-2022 Batch)**

Total strength : 34

Passed : 29

Pass Percentage : 85.29

**Topper : Adithya Pradeep (University Second Position),**

UG to PG Progression : 16 students out of 34 joined for PG Programmes.

**2. Alumni Meet**

- Alumni meeting was conducted on 26.12.2022.
- BSc Mathematics (2001-2004 Batch) students visited the College on 29.12.2022 .

**3. Alumni Achievements:**

- Dr. Vivek P (BSc 2004-2007) Joined as Assistant Professor, HRD, Kannur University.
- Ms. Soorya P (MSc 2014-2016 batch) was awarded PhD from Central University of Kerala, Kasaragod.
- Mr. Shijin T. V. (MSc 2014-2016 batch) submitted PhD thesis at Central University of Kerala, Kasaragod.
- Mr. Asif Navas K R (BSc 2009-2012 batch) submitted PhD thesis at Kannur University.
- Mr. Akhil K (MSc 2014-2016 batch) qualified UGC NET (28.10.2022).
- Mr. Albin Raj (BSc 2013-2016 Batch) Qualified NET
- Mr. Anurag K. (BSc 2009-2012) joined for MSc at IIT Bombay.
- Mr. Adarsh K and Anagha (BSc 2019-2022) were selected to Navy Agniveer Secondary Recruit.

- Raghi M (MSc 2014-2016) and Akhil V (MSc 2020-2022) qualified GATE.
- Akshaya C, Akhileswary P B and Arshin R(MSc 2019-2021)qualified SET.
- Athira Viswambharan, Rakhi M (MSc 2014-2016) and Aiswarya K were appointed as Statistical Assistants, Grade I.
- Nithya K and Lijina E (MSc 2014-2016)were appointed as UPSA.

#### 4. **Mathematics Club**

Conducted lecture series titled “Number Theory” by MSc students to BSc students during the month of March 2023.

#### 5. **Mathematics Association 2022-2023**

1. Mathematics Association conducted Film Show on 23.12.2022 in connection with National Mathematics Day. Film: *The Man Who Knew Infinity*”
2. Mathematics Association **2022-2023 (TESSERACT)** was inaugurated by Dr Usha K K., Associate Professor and Head, Department of Mathematics, PRNSS College, Mattanur on 24.2.2023. After the inaugural session, an academic session on **Graph Theory** was led by Dr Usha K K .
3. Mathematics Association conducted various programmes on 20.02.2023: “*Peru parayooShavarmaKazhikoo*”, and Rangoli Competition. Team of Abhinand, Ananya and Binya of Second Year BSc Mathematics students won first place and team of Alka Rajeev, Anusha and Jijil won second place in the Rangoli Competition. In the Quiz competition, team of Varada and AIswarya of Final Year BSc Matheamtics won first place and team of Avani and Navya Joseph of Second Year Chemistry students won second place.

#### 6. **Department Programme**

- **Webinars:** Conducted a webinar on 8.6.2022 by Dr. Shahul Hameed, Associate Professor in Mathematics, Krishna Menon Memmorial Women's College in collaboration with Bhoomithra Sena club on the topic " Modern weather forecasting : A Mathematical Perspective"
- **Madhava Mathematics Competition:** College was the centre of Madhava Mathematics Competition on 29.01.2023.

**7. PTSA Meetings:** Conducted PSTA Meetings for First , Second and third year students. (Third Year BSc Mathematics PTSA meeting was conducted offline on 03.8.2022 and 16.12.2022, Second Year BSc Mathematics PTSA meeting was conducted on 4.8.2022 and 12.1.2023). Online PTSA meeting of Third Year BSc Mathematics was conducted on 5.3.2023.

**8. Membership Academic Bodies**

- i) Dr Bijumon R – Member, Academic Council, Kannur University
- ii) Dr Bijumon R – Chairman, Board of Examinations PG Mathematics (SDE), Kannur University.
- iii) Dr Bijumon R – Member, Board of Studies in Mathematics, Christ College, Irinjalakkuda
- iv) Dr Bijumon R – Member, Board of Studies, Rathnavel Subramaniam College of Arts and Science, Sulur, Coimbatore.
- v) Mrs. Haseena C – Chairman, Board of Examinations PG Mathematics (Odd Semester), Kannur University.
- vi) Mrs. Haseena C – Chairman, Board of Examinations, MSc Mathematics (New Generation Course) (Odd Semester), Kannur University.
- vii) Mrs. Priyanka P – Chairman, Board of Examinations, MSc Mathematics (New Generation Course) (Even Semester), Kannur University.
- viii) Mrs. Priyanka P- Chairman and Member, Board of Question paper Setters of Calicut University.
- ix) Mrs. Jimly Manuel - Member, Board of Question paper Setters MTD I C02 – LINEAR ALGEBRA for Calicut University May 2022
- x) Mrs. Jimly Manuel - Member, Board of Question paper Setters of MT IC 02 – LINEAR ALGEBRA for Calicut University
- xi) Mrs. Vidya T M – Member, Board of Question paper Setters in MSc Mathematics with Data Science, Calicut University

**9. Programmes Organized in association with other colleges**

*What can you do with a Master Degree in MATH:* Organized by Department of Mathematics, SN College, Kannur in collaboration with MATHLAB, Cochin and Department of Mathematics, PRNSS College, Mattanur and Mahatma Gandhi College, Irittyon 3.12.2022.

#### 10. **Workshop/Seminar/Subject Expert/Resource Person**

##### **Dr Bijumon R**

- a) Attended the workshop on Differential Geometry held at Department of Mathematical Sciences, Kannur University from 1.4.2022 to 6.4.2022. Resource Person: Prof. K Parathasarathy and Prof. Aprameyan P.
- b) Attended the workshop on Complex Analysis held at Department of Mathematical Sciences, Kannur University from 18.7.2022 to 22.7.2022. Resource Person: Prof. Parathasarathy
- c) Interacted with MSc students of Department of Mathematical Sciences, Kannur University from 4.7.2022 to 29.7.2022 through online medium. Also engaged offline classes on 20.7.2022 and 21.7.2022. (Topic: Complex Analysis).
- d) Attended Board of Studies (Mathematics) at Rathnavel Subramaniam College of Arts and Science, Sulur, Coimbatore on 30.6.2022.
- e) Subject Expert for the SWAYAM Course on Multivariate Calculus. Presented lectures at EMMRC, University of Calicut on 8.3.2023 and 9.3.2023.
- f) Subject Expert for the selection of guest lecturer in the Department of Mathematics, Govt. Brennen College, Dharmadam on 22.9.2022.
- g) Attended Workshop conducted by National Translation Mission at University of Calicut from 23.1.2023 to 25.1.2023 – Translation of the book titled “Figuring the Joy of Numbers” by Mrs. Sakuntaladevi.
- h) Attended FDP on Outcome Based Education organized by SES College, Sreekandapuram in association with Kerala State Higher Education Council from 18.1.2023 to 25.1.2023 (Online Mode).
- i) Attended the National Seminar on ‘Glimpses on Analysis and Geometry’, organized by the Department of Mathematics, University of Calicut, held on 21 March 2023.

##### **Haseena C**

- 1. Attended the National Seminar on ‘Glimpses on Analysis and Geometry’, organized by the Department of Mathematics, University of Calicut, held on 21 March 2023.
- 2. Attended Research Conclave -2022 organised by the Directorate of Research, Kannur University from 11<sup>th</sup> April 2022 to 13<sup>th</sup> April 2022.

**Priyanka P**

1. Attended the workshop on Differential Geometry held at Department of Mathematical Sciences, Kannur University from 1.4.2022 to 2.4.2022.
2. Attended Refresher course in Mathematics, Statistics and Computer Science from 10.01.2023 to 23.01.2023 at UGC-HRDC, University of Lucknow.
3. Attended Research Conclave -2022 organised by the Directorate of Research, Kannur University from 11<sup>th</sup> April 2022 to 13<sup>th</sup> April 2022.

**Jimly Manuel**

1. Attended the workshop on Differential Geometry held at Department of Mathematical Sciences, Kannur University from 1.4.2022 to 2.4.2022. Resource Person: Prof. K Parathasarathy and Prof. Aprameyan P.
2. Attended Research Conclave -2022 organised by the Directorate of Research, Kannur University from 11<sup>th</sup> April 2022 to 13<sup>th</sup> April 2022.

**Maya P V**

1. Maya P V has attended the National Seminar- “New Trends on Special Functions” on 13.03.2023 organized by the IQAC and PG Department of Mathematics Gurudev Arts and Science College, Mathil and presented a paper entitled “I- functions of several Variables and Statistical distributions”.
2. Attended Research Conclave -2022 organised by the Directorate of Research, Kannur University from 11<sup>th</sup> April 2022 to 13<sup>th</sup> April 2022.

**Vidya T M**

1. Vidya T M has attended the National Seminar- “New Trends on Special Functions” on 13.03.2023 organized by the IQAC and PG Department of Mathematics Gurudev Arts and Science College, Mathil and presented a paper entitled “Summation formulae for a series involving I -function of Several Variables”.
2. Attended Research Conclave -2022 organised by the Directorate of Research, Kannur University from 11<sup>th</sup> April 2022 to 13<sup>th</sup> April 2022.

### 11. Achievement of Students

- a) Mr. Navaneeth Prakash (Final Year BSc Mathematics) won Third Place with A Grade in Flute in the Kannur University Kalolsavam held at Govt. Brennen College, Dharmadam on 3.3.2023.
- b) Mr. Anirudh Lal K. S. (BSc Mathematics 2021-2024 Batch) is selected for the Zonal Level National Youth Parliament Festival 2023 organized by the Ministry of Youth Affairs and Sports.
- c) Ms. Varada and Ms. Aiswarya (Final Year BSc Mathematics) won second place and cash prize of Rs.7500/- in the Quiz Competition organized at Don Bosco College Angadikkadavu on 30.01.2023
- d) Ms. Nikhitha M, Second Year BSc student got second place in the Chandraduba speech competition organized by Bhoomithra Sena in association with Physics and Chemistry Departments.
- e) Sreya Vijayan K of II BSc Mathematics has participated in the State Zone NSS PRE REPUBLIC DAY PARADE CAMP 2022.
- f) Sreya Vijayan K K of II BSc Mathematics has secured second position in the Kannur University Inter Collegiate Kalaripayattu Championship(Nerkal) held on 09.03.2023.
- g) In the College Annual Sports Day, Deependu (First Year BSc Mathematics) won first place in 800 meters race, Ms. Jijil V K (Third Year BSc Mathematics) won third place, team of Anusha K, Stephy, Hridhya Anoop (Final Year BSc) and Deependu (First Year BSc Mathematics) won first place in the 400 meters relay.

### 12. Programmes attended/conducted by Students:

- Second Year MSc students attended Workshop on "Complex Analysis" at Department of Mathematical Sciences, Kannur University Mangattuparamba 18.7.22 to 25.7.22. Resource Person: Prof. K. Parthasarathy.
- Anwar Sadath K K and Arunima P of II BSc Mathematics has participated in the district level Quiz Competition 'Bodhyam 2022' held at Payyannur College, Payyannur on 17.10.2022.
- BSc students attended a quiz programme at Mary Matha arts and Science College, Mananthavady on 5.11.2022.
- MSc students supported students from Schools in a programme *Lalitham Ganitham*.

- Final Year BSc Students attended the Tour Programme from 28.12.2022 to 30.12.2022 (Tour to *Chikkamangaluru and Belur*).
- Conducted Fresher's Day Party (*Jagapoga*) on 10.1.2023.
- MSc students attended a one day Training Programme on LaTeX organized by Dept. of Mathematics, Don Bosco Arts and Science College, Angadikkadavu (20.1.2023).
- MSc students visited St. Joseph's College, Devagiri College on 1.2.2023.
- Attended Quiz Competition at Don Bosco College Angadikkadavu on 30.01.2023
- BSc and MSc students visited PRNSS College Mattannur in connection with Exhibition conducted there (28.2.2023 and 1.3.2023).
- **Hand written Magazine**

### 13. **Kannur University Kalolsavam:**

The following students participated in the Kannur University Kalolsavam.

- Mr. Navaneeth Prakash (Final Year BSc Mathematics) won Third Place with A Grade in Flute in the Kannur University Kalolsavam held at Govt. Brennen College, Dharmadam on 3.3.2023.
- Anagha P (Final Year MSc Mathematics) Mohiniyattam, Bharathanatyam and Kuchipudi.
- Anjali P (Second Year MSc Mathematics) Thiruvathirakali.
- Anjana P (First Year MSc Mathematics) Thiruvathirakali.
- Anjana Shaji P V (First Year BSc Mathematics) Thiruvathirakali and Naadanpattu.
- Vaishnav M C (Second Year MSc Mathematics) Cherukatharachana- Sanskrit.
- Anirudhlal KS (Second Year BSc Mathematics) Theruvunaatakam (Malayalam)
- Sreya Vijayan K (Second Year BSc Mathematics) Theruvunaatakam (Malayalam)
- Nandana Vinod K P (First Year BSc Mathematics) Theruvunaatakam (Malayalam)
- Ramraj (Second Year BSc Mathematics) Tabala

### 14. **Innovative Programmes**

a) SWAYAM Course – material preparation/subject expert/content editing/video reviewer:

- Dr Bijumon R is the Principal Investigator of Massive Online Open Course (MOOC) course on *Multivariate Calculus*.
- Massive Online Open Course (MOOC) course on *Topology and Complex Analysis*:
  - Dr Bijumon R worked as a content editor (Academic Reviewer) for the MOOC programme on ‘Metric Space and Complex Analysis’.
  - Ms. Vidya T M worked as a content editor (Academic Reviewer) for the MOOC programme on ‘Metric Space and Complex Analysis’.
  - Ms. Vidya T M worked as Academic Reviewer (Video) for the MOOC Programme on ‘Linear Programming’
  - Ms. Jimly Manuel worked as Academic Reviewer(video) for the MOOC programme on Metric Space and Complex Analysis.
  - Ms. Haseena C worked as subject expert and content editor for the MOOC programme on LPP.
  - Ms. Haseena C worked as a content editor and Academic Reviewer(video)for the MOOC programme on ‘Metric Space and Complex Analysis’.
  - Ms. Priyanka P worked as subject expert and content editor for the MOOC programme on LPP.
  - Ms. Priyanka P worked as Academic Reviewer(video) for the MOOC programme on ‘Metric Space and Complex Analysis’.
  - Ms. Maya P V worked as Academic Reviewer(video) for the MOOC programme on Metric Space and Complex Analysis.

b) Regional seminars conducted by Department.

c) Publication of Text Books by Faculty members for various universities in Kerala

d) Certificate Courses on “ LaTeX and “GeoGebra” and “Quantitative Aptitude for Competitive Examinations”