



Bishop Heber College [Autonomous]

(Nationally Reaccredited with 'A' Grade by NAAC with a CGPA of 3.58 out of 4)
("Recognised by UGC as "College of Excellence")
DST-FIST Sponsored & DBT Star College, Tiruchirappalli-620017, Tamilnadu, India

PG & RESEARCH DEPARTMENT OF MATHEMATICS

HOD



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Achievements / Accolades of Learners

Recently, few students participated in the students' exchange programme with the Appalachian State University, USA (2016-17). Some of the students of the department have cleared CSIR-NET with JRF and TNSNET-2016. Few students have received the prestigious INSPIRE Fellowship and Rajiv Gandhi National Scholarship for pursuing Higher studies and research programme.

Our students actively participate in Advanced Training camps in Mathematics, MTTs Programme, Republic Day parades, Inter-collegiate competitions and Social welfare projects through the clubs for Extension activities. Every year, they secure Top University ranks, clear national and state level eligibility tests for teaching and research. Many a time, students brought laurels to our department by winning various Inter Collegiate competitions conducted by other educational institutions.

Student Progression Status

| Course | Year | Persued Higher Studies | Students Placed |
|-------------------|-------------|------------------------|-----------------|
| B.Sc. Mathematics | 2014 - 2017 | 34 | 13 |
| B.Sc. Mathematics | 2015 - 2018 | 191 | 22 |
| B.Sc. Mathematics | 2016 - 2019 | 135 | 28 |
| B.Sc. Mathematics | 2021 - 2022 | 181 | 22 |
| M.Sc. Mathematics | 2016 - 2018 | 49 | 13 |
| M.Sc. Mathematics | 2017 - 2019 | 64 | 19 |
| M.Sc. Mathematics | 2021 - 2022 | 21 | 07 |



Research Outputs

The senior and young scientists in the department have different thrust areas of research which include,

| | | |
|--|--|---|
| 1 Numerical Analysis of Fuzzy Differential Equations | 2 Delay Differential Equations and Fractional Differential Equations, | 3 Singular Perturbation Problems |
| 4 Mathematical Modelling | 5 Fuzzy Multi-Criteria Decision Making and Fuzzy Optimization Techniques | 6 Operations Research Models |
| 7 Graph Theory | 8 Nano Topology | 9 Stochastic Models for Manpower Planning |

A team of faculty were sanctioned with Minor Research Projects from the College Management and UGC-SERB. The faculty of the department have published more than 200 research articles in Reputed Indexed National/ International Journals and Conference Proceedings for the past 5 years. Some of the faculty members of the department hold Research Collaboration with National/International researchers.

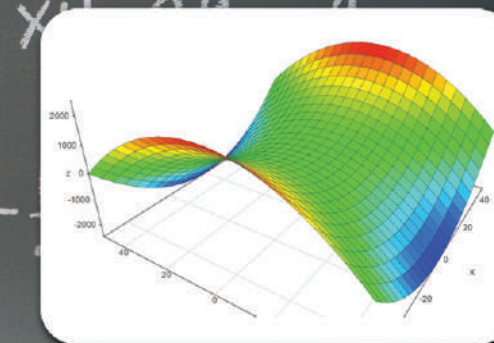
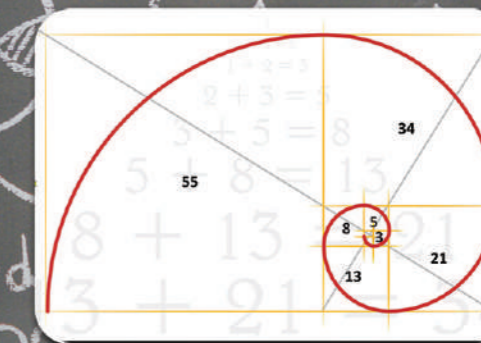
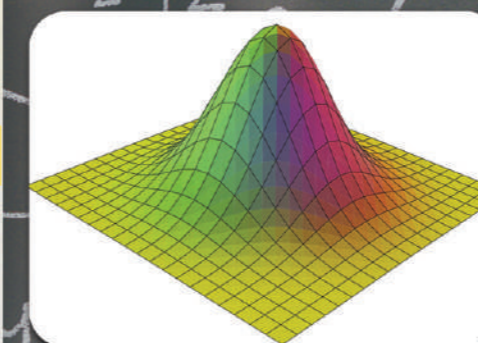
Staff Profile

There is a committed band of Teachers engaged in the mission of training the young men and women to achieve the vision of the Department. **There are 10 teachers in the Aided section and 27 teachers in the Self-Financed sections. It is remarkable that there are 26 Ph. D. holders working under 11 research supervisors and 17 SET/NET qualified members.**

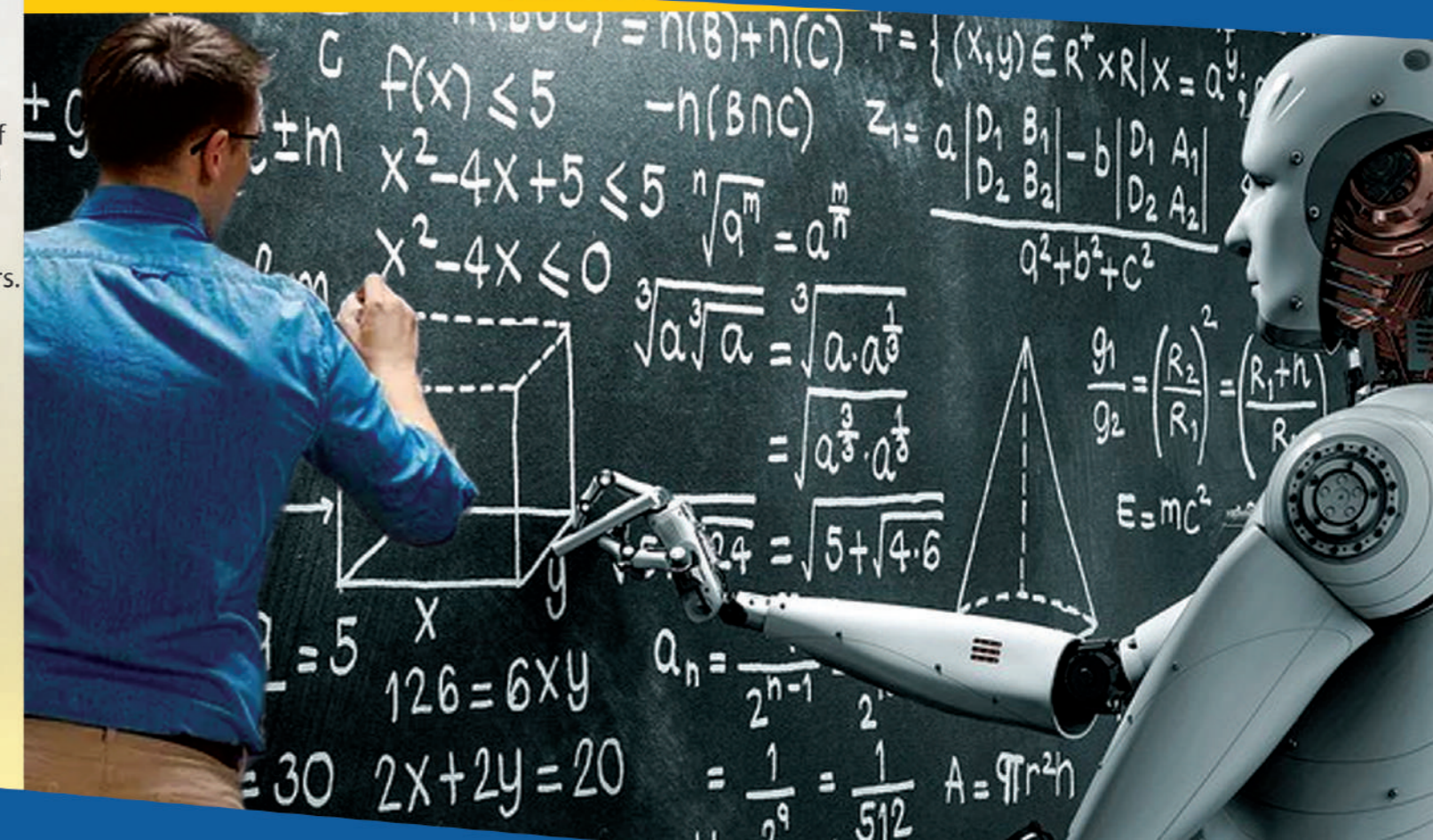


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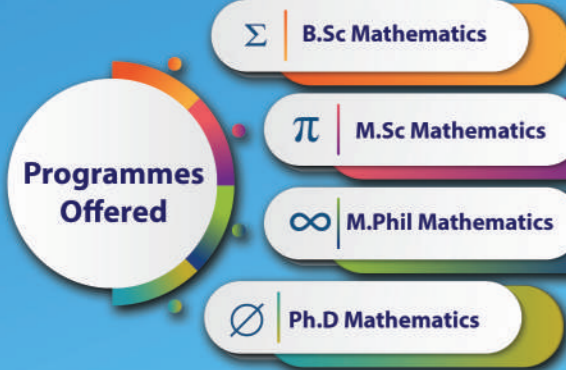


About the Department

The Department of Mathematics has been functioning right from the revival of the College in 1966. It was recognized as a 'Research Centre' in 1986 when it started offering M.Phil. programme. The Department has been awarded twice with the prestigious DST – FIST grant (2005 & 2016). The Department, along with the other four Departments of Basic Sciences, is identified as a STAR Department by the Department of Biotechnology, Government of India under the STAR College Scheme.

Programmes Offered

The Department offers an integrated model curriculum in both the Undergraduate and Post Graduate Programmes comprising of core courses, supportive Allied and Elective courses, Skill oriented courses and Value oriented courses.



Uniqueness

- ✓ Conducting Bridge Course for Freshers
- ✓ Maintaining Students Profile
- ✓ Mathematics Association
- ✓ Mathematic Club
- ✓ Mathematics Exhibition
- ✓ Periodical Parents Teachers Meeting
- ✓ Frequent Alumni Meet
- ✓ Student Mentoring
- ✓ Separate Department Library
- ✓ Celebrating Ramanujan Day
- ✓ Remedial Coaching Classes
- ✓ Special coaching for CSIR-NET, NBHM and SET
- ✓ Offering Part-Time Job opportunities for students

- Certificate Programme in LaTeX
- Certificate Programme in R



Mathematics Exhibition/ Parent – Teacher meet



Programmes leading to Next level / Future Plans / Way forward

- New course introduced in the curriculum for PG students exclusively based on CSIR-NET syllabus in the year 2021.
- Alumni-Buddy Connect (ABC) programmes initiated for Training & Placement of students in reputed Companies/Institutions.
- New job opportunities are created through industrial MoU.
- Part-Time job opportunities created for underprivileged students through the scheme 'Heber-Tent Makers'.
- Make researchers in the department to involve in National / International Research Collaborations.
- Create Corpus fund in the department for staff/student support.



Curricular / Instructional & Learning Resources

Every classroom in the department is enabled with overhead projector and internet connections (WIFI & LAN). Equipments like, Server, a good number of Computers, Printers, Scanners, Laptops, UPS's, Fire extinguisher, Podium Mike, etc., are available in the department. Webcam, Speakers, Digital camera are available in the department for e-content preparation.

The Department Library has more than 2000 books which is the collection from various sources like College Library, MRP Funds, DST-FIST, DBT and Staff Contributions.

Awards and Recognitions secured by the Department

The following awards are received by our department faculty members:

Dr. D. Paul Dhayabaran

- Best Principal award (AIACHE) – 2020 -2021
- Manitha Neya Kavalal (NGO) - 2021

Dr. S. Valarmathi

- Council Member, INCA, Dublin, Ireland – 2017-18

Dr. P. Mariappan

- Best Faculty Award (Cognizant Technology Solutions) – 2018
- Lifetime Achievement Award (RULA) – 2019
- Global Achievement Award 2020 (Rifacimento International, New Delhi) – 2021



ICT TOOLS ENABLED



GROUP DISCUSSION



OVERALL WINNER



PLANETORIUM



Dr.A.Jenifer Christinal - Interactive Session - I M.Sc. Mathematics C

INTERACTIVE SESSION