

DEPARTMENT OF MATHEMATICS
MINUTES OF THE 19TH MEETING OF THE BOARD OF STUDIES
HELD ON 9TH DECEMBER, 2023.

The 19th Meeting of the Board of Studies (BoS) of the Mathematics Department was held on 9th December, 2023 in which the following members were present:

1. Dr. Y. S. Irine Sheela, Head of the Department - Chairperson.
2. Dr. S. Chandra Kumar
3. Dr. V. Rani Ratha Bai
4. Dr. P. Anto Paulin Brinto
5. Dr. P. Jaya Mary
6. Dr. K. Sunitha
7. Dr. R. Ajitha
8. Dr. K. Lal Gipson
10. Dr. J. Ajitha Fancy
11. Dr. T. Binu Selin
12. Dr. D. S. Dilip Subject expert-1 (from outside the parent university)
13. Dr. S. Monikandan Subject expert (Nominated by the VC)
14. Dr.S. Sujith Postgraduate meritorious alumnus

The meeting of the Board of Studies of the Mathematics Department was held at 10 am on 9th December, 2023 in the Mathematics Department Research Room.

In the beginning, the Chairperson introduced and welcomed the members. The Chairperson also acknowledged and appreciated the significant contributions of the outgoing members.

Thereafter, the agendas were taken up for discussion.

Minute No.	Minutes
1.	<p><i>Confirmation of the Minutes of the 18th BoS meeting held on 24.06.2023</i></p> <p>Member Secretary Dr. Y. S. Irine Sheela read the minutes of 18th BoS meeting held on 24.06.2023 and the minutes were confirmed.</p>

[Signature]
D. O. HENRY DAIA
PRINCIPAL IN-CHARGE
SCOTT CHRISTIAN COLLEGE (AUTONOMOUS)
NAGERCOIL-3.

[Signature]
Dr. Y. S. IRINE SHEELA
Vice - Principal and Head
Postgraduate and Research Centre
Department of Mathematics
Scott Christian College (Autonomous)
Nagercoil.

2.	Action Taken Report on the Minutes of the 17th BoS meeting. The members of BoS carefully perused the "Action Taken Report (ATR)" presented by the Chair Person Dr. Y.S.Irine Sheela and expressed their satisfaction and appreciation.															
3.	Review of Academic and Administrative Audit (AAA) Report 2020-21. The Chair Person Dr. Y.S. Irine Sheela presented the AAA report criteria-wise and the members of BoS carefully reviewed the AAA report and proposed the following suggestions for improvement. a) To encourage the researchers to publish research articles in Scopus journals or in UGC care journals.															
4.	Review of Feedback Report on curriculum obtained from 1) Students 2) Teachers 3) Employers 4) Alumni. a) Parent – Teachers meeting should be organized once in a year to a relationship between their parents and inform the students academic program. b) Remedial coaching classes should be arranged for slow learners and make the students to get interest in their studies. c) To modify the syllabus, if the students feel that the syllabus is not able to follow.															
5	Dr. Y.S. Irine Sheela proposed the introduction of the following NEW course(s) in the curriculum of B.Sc. Mathematics from the academic year 2023-'24. 1. Courses for employability/entrepreneurship/skill development <table border="1"> <thead> <tr> <th>Name of the Course</th> <th>Course Code</th> <th>Activities/Content with direct bearing on Employability/Entrepreneurship/Skill development</th> </tr> </thead> <tbody> <tr> <td>Multidisciplinary(NME) Mathematical Aptitude-II</td> <td></td> <td>To face the challenges of competitive examinations .</td> </tr> <tr> <td>Multidisciplinary(NME) Mathematical Aptitude-III</td> <td></td> <td>To face the challenges of competitive examinations .</td> </tr> </tbody> </table> 2. Core/Elective Courses with local/regional/national/global relevance <table border="1"> <thead> <tr> <th>Name of the Course</th> <th>Course Code</th> <th>Relevance to local, national, regional and global development needs</th> </tr> </thead> <tbody> <tr> <td>Core paper IV Integral Calculus</td> <td></td> <td>To know about the geometric applications of double, triple integrals and improper integrals.</td> </tr> </tbody> </table>	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/Entrepreneurship/Skill development	Multidisciplinary(NME) Mathematical Aptitude-II		To face the challenges of competitive examinations .	Multidisciplinary(NME) Mathematical Aptitude-III		To face the challenges of competitive examinations .	Name of the Course	Course Code	Relevance to local, national, regional and global development needs	Core paper IV Integral Calculus		To know about the geometric applications of double, triple integrals and improper integrals.
Name of the Course	Course Code	Activities/Content with direct bearing on Employability/Entrepreneurship/Skill development														
Multidisciplinary(NME) Mathematical Aptitude-II		To face the challenges of competitive examinations .														
Multidisciplinary(NME) Mathematical Aptitude-III		To face the challenges of competitive examinations .														
Name of the Course	Course Code	Relevance to local, national, regional and global development needs														
Core paper IV Integral Calculus		To know about the geometric applications of double, triple integrals and improper integrals.														

D. Henry Raja
DR. D. HENRY RAJA
 PRINCIPAL IN-CHARGE
 SCOTT CHRISTIAN COLLEGE (AUTONOMOUS)
 NAGERCOIL-3.

Y.S. Irine Sheela
DR. Y. S. IRINE SHEELA
 Vice - Principal and Head
 Postgraduate and Research Centre
 Department of Mathematics
 Scott Christian College (Autonomous)
 Nagercoil.

Suggestions and recommendations for changes in UG Mathematics syllabus 2023-24

Following are observations/suggestions/recommendations to be followed in each semester:

S. No	Semester	Name of the paper	Observations/Suggestions/recommendations	
1.	II	Core paper II – Analytical Geometry of three dimensions	Content of Unit V was replaced by Cone and Cylinder.	20% replaced

Dr. Y.S. Irine Sheela proposed the introduction of the following NEW course(s) in the curriculum of M.Sc. Mathematics from the academic year 2023-'24.

1. Core/Elective Courses with local/regional/national/global relevance

Name of the Course	Course Code	Relevance to local, national, regional and global development needs
Elective II 1. Number Theory And Cryptography		To provide an introduction to analytic Number Theory and recent topics of Cryptography with applications.
Elective I 2. Programming in C++ and Numerical Methods		To enable the students to apply numerical methods in a computer environment.
Elective II 3. Computer Applications in Economics Analysis		To understand the basic operation in SPSS and MS office.
Elective II 4. C-Programming		To understand the knowledge about the structure of the programming language C
Elective II 5. Statistical Methods		To create the concept of sampling and sample survey.
Elective I 6. Statistical Data Analysis using R-Programming		To create the concept of data frames, graphics and modelling.

Dr. D. HENRY RAJA
PRINCIPAL IN-CHARGE
SCOTT CHRISTIAN COLLEGE (AUTONOMOUS)
NAGERCOIL-3.

Dr. Y.S. IRINE SHEELA
Vice - Principal and Head
Postgraduate and Research Centre
Department of Mathematics
Scott Christian College (Autonomous)
Nagercoil.

Elective I 7. Financial Mathematics		To interpret the concept of Probability and the optimization models.
Elective II 8. Lie Groups and Lie Algebra		To understand the concept of matrix groups and their Lie Algebras, as an application of Linear Algebra.
Elective I 9. Machine Learning and Artificial Intelligence		To describe the foundations of Artificial intelligence.
Elective II 10. Stochastic Processes		To know the concepts of queuing models and some special renewal process.
Elective II 11. Advanced Python Programming		To Design a Python program and to construct Python program for calculus problems.
Elective II 12. Mathematical Programming in C++		To know the foundations of mathematical results and numerical techniques of optimization theory that are predominantly employed in varied application
Elective II 13. Fuzzy sets and their applications		To learn decision making in fuzzy environments and applications.

D. Henry Raja

Dr. D. HENRY RAJA
PRINCIPAL IN-CHARGE
SCOTT CHRISTIAN COLLEGE (AUTONOMOUS)
NAGERCOIL-3.

Y.S. Irine Sheela

Dr. Y. S. IRINE SHEELA
Vice - Principal and Head
Postgraduate and Research Centre
Department of Mathematics
Scott Christian College (Autonomous)
Nagercoil.

Suggestions and recommendations for changes in PG Mathematical syllabus 2023-24

Following are the observations/ suggestions/recommendations

S. No.	Semester	Name of the paper	Observations/suggestions/recommendations	% of content to be added/replaced
1.	II	Core paper I – Advanced Algebra-II	Content of Unit I was added with Transcendence of e. Content of Unit II was added with more about roots. Content of Unit V was added with Square theorem.	40% replaced
2.	II	Core Paper II – Real Analysis II	Contents of Unit I was replaced by Measure on the real line. Content of Unit II was replaced by integration of functions of a real variable. Content of Unit IV was shifted to Unit III.	40% replaced
3.	III	Elective I Calculus of Variation and integral Equations	Content of Unit IV was added with New Mann series.	5%

D. Henry Raja
Dr. D. HENRY RAJA
 PRINCIPAL IN-CHARGE
 SCOTT CHRISTIAN COLLEGE (AUTONOMOUS)
 NAGERCOIL-3.

Y. S. Irine Sheela
Dr. Y. S. IRINE SHEELA M.Sc., M.A., Ph.D., M.Ed.
 Vice - Principal and Head
 Postgraduate and Research Centre
 Department of Mathematics
 Scott Christian College (Autonomous)
 Nagercoil.

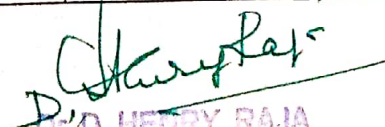
DEPARTMENT OF MATHEMATICS
LIST OF BOARD OF STUDIES MEMBERS


S.No.	Name	Designation	Role
1.	Dr. Y. S. Irine Sheela	Head of the Department, Department of Mathematics & Research Centre, Scott Christian College (Autonomous), Nagercoil. irinesheela@gmail.com 9442390257	Chairman
2.	Dr. S. Chandra Kumar	Associate Professor, Department of Mathematics & Research Centre, Scott Christian College (Autonomous), Nagercoil. kumar.chandra82@yahoo.in 9442579723	Member
3.	Dr. V. Rani Ratha Bai	Associate Professor, Department of Mathematics & Research Centre, Scott Christian College (Autonomous), Nagercoil. raniruban66@gmail.com 9442476032	Member
4.	Dr. E. Giftin Vedha Bai	Assistant Professor, Department of Mathematics & Research Centre, Scott Christian College (Autonomous), Nagercoil. giftinmerly@gmail.com 9790291305	Member
5.	Dr. P. Anto Paulin Brinto	Assistant Professor, Department of Mathematics & Research Centre, Scott Christian College (Autonomous), Nagercoil. antopaulin@gmail.com 9486011599	Member

D. Henry Raja
Dr. D. HENRY RAJA
PRINCIPAL IN-CHARGE
SCOTT CHRISTIAN COLLEGE (AUTONOMOUS)
NAGERCOIL-3.

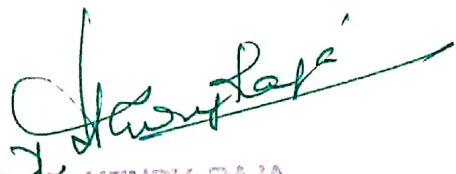
Y.S. Irine Sheela
Dr. Y. S. IRINE SHEELA M.A., M.Phil., Ph.D.
Vice - Principal and Head
Postgraduate and Research Centre
Department of Mathematics
Scott Christian College (Autonomous)
Nagercoil.


6.	Dr. P. Jaya Mary	Assistant Professor, Department of Mathematics & Research Centre, Scott Christian College (Autonomous), Nagercoil. jayamary1986@gmail.com 9600305063	Member
7.	Dr. K. Sunitha	Assistant Professor, Department of Mathematics & Research Centre, Scott Christian College (Autonomous), Nagercoil. ksunithasam@gmail.com 9486855800	Member
8.	Dr. R. Ajitha	Assistant Professor, Department of Mathematics & Research Centre, Scott Christian College (Autonomous), Nagercoil. sujalin88@gmail.com 9486771686	Member
9.	Dr. K. Lal Gipson	Assistant Professor, Department of Mathematics & Research Centre, Scott Christian College (Autonomous), Nagercoil. lalgipson@yahoo.com 9487422284	Member
10.	Dr. J. Ajitha Fancy	Assistant Professor, Department of Mathematics & Research Centre, Scott Christian College (Autonomous), Nagercoil. ajithafancy@gmail.com 7598013725	Member
11.	Dr. T. Binu Selin	Assistant Professor, Department of Mathematics & Research Centre, Scott Christian College (Autonomous), Nagercoil.	Member


Dr. D. HENRY RAJA
PRINCIPAL IN-CHARGE
SCOTT CHRISTIAN COLLEGE (AUTONOMOUS)
NAGERCOIL-3.


Dr. Y. S. IRINE SHEELA
Vice - Principal and Head
Postgraduate and Research Centre
Department of Mathematics
Scott Christian College (Autonomous)
Nagercoil.

		binuselin@gmail.com 8870100931	
12.	Dr. D. S. Dilip	Assistant Professor, Department of Mathematics, St. John's College, Anchal-691306, Kollam Dist., Kerala. dsdilipmaths@gmail.com 8111907170	Subject expert-1 (from outside the parent university)
13.	Dr. G. Suresh Singh	Professor and Head, Department of Mathematics, University of Kerala, Thiruvananthapuram. gsureshsingh65@gmail.com 9447471455	Subject expert-2 (from outside the parent university)
14.	Dr. S. Monikandan	Professor & Head, Department of Mathematics, Manonmanium Sundaranar University, Tirunelveli-627012. monikandans@gmail.com 9629597171	Subject expert (Nominated by the VC)
15.	Mr. G. Paul Bright	Founder and Chairman SWIS group of Schools, Run by Gunamony Charitable and educational trust, Hosur. swisinternationalacademy@gmail.com 9488336133	Industrialist
16.	Dr.S. Sujith	Assistant Professor, Department of Mathematics, St. Xavier's College, Palayamkottai - 627002. sujithsr123@gmail.com 9940205302	Postgraduate meritorious alumnus


Dr. D. HENRY RAJA
PRINCIPAL IN-CHARGE
SCOTT CHRISTIAN COLLEGE (AUTONOMOUS)
NAGERCOIL-3.


Dr. Y. S. IRINE SHEELA
Vice - Principal and Head
Postgraduate and Research Centre
Department of Mathematics
Scott Christian College (Autonomous)
Nagercoil.

The 19th Meeting of the Board of Studies (BoS) of the Mathematics Department was held on 9th December, 2023 in which the following members were present:

1.	Dr. Y. S. Irine Sheela Head of the Department - Chairperson.	<i>Y.S. Irine Sheela</i>
2.	Dr. S. Chandra Kumar (Member)	<i>S. Chandra Kumar</i>
3.	Dr. Dr. V. Rani Ratha Bai (Member)	<i>V. Rani Ratha Bai</i>
4.	Dr. P. Anto Paulin Brinto (Member)	<i>P. Anto Paulin Brinto</i>
5.	Dr. P. Jaya Mary (Member)	<i>P. Jaya Mary</i>
6.	Dr. K. Sunitha (Member)	<i>K. Sunitha</i>
7.	Dr. R. Ajitha (Member)	<i>R. Ajitha</i>
8.	Dr. K. Lal Gipson (Member)	<i>K. Lal Gipson</i>
9.	Dr. J. Ajitha Fancy (Member)	<i>J. Ajitha Fancy</i>
10.	Dr. T. Binu Selin (Member)	<i>T. Binu Selin</i>
11.	Dr. D. S. Dilip Subject expert-1 (from outside the parent university)	<i>D. S. Dilip</i>
12.	Dr. S. Monikandan Subject expert (Nominated by the VC)	<i>S. Monikandan</i> 09/12/2023
13.	Dr.S. Sujith (Postgraduate meritorious alumnus)	<i>S. Sujith</i>

D. Henry Raja
Dr. D. HENRY RAJA
PRINCIPAL IN-CHARGE
SCOTT CHRISTIAN COLLEGE (AUTONOMOUS)
NAGERCOIL-5.

Y.S. Irine Sheela
Dr. Y. S. IRINE SHEELA M.Sc., M.Phil., P.D.C., Ph.D.
Vice - Principal and Head
Postgraduate and Research Centre
Department of Mathematics
Scott Christian College (Autonomous)
Nagercoil.