



ANNUAL REPORT 2021-2022



DEPARTMENT OF BIOCHEMISTRY & INDUSTRIAL MICROBIOLOGY

NATIONAL COLLEGE
Manacaud, Trivandrum

Message from the HOD

The Department of Biochemistry and Industrial Microbiology (double main course) was established in the year 2000. The department offers both undergraduate and postgraduate degrees from University of Kerala. Our department aspires to lead in the areas of Biochemistry & Microbiology. Main aim of our department is to create opportunities and supporting infrastructure for students to achieve their aspirations.

Our degree program is a unique and comprehensive program designed to impart theoretical and practical training encompassing all the major areas of Biochemistry & Microbiology.

The department has well qualified faculties dedicated to teaching, follows a well-disciplined teaching – learning process and maintains a good student – teacher relationship in campus. All our faculty members have excellent academic credentials from reputed universities. Our staff members are enthusiastic and work hard to instill an interest in the subject to our students. Our intensive training confers students to be competitive for higher studies and to cater to the needs of bio industries, teaching & research.

Regards

Geethu Krishna R

HOD, Dept of BC & IMB

National College

About the Department

The Department of Biochemistry and Industrial Microbiology in National college was established in the year 2000. The Department offers both undergraduate (B.Sc.) and Postgraduate (M.Sc.) degrees from the University of Kerala. M.Sc. Biochemistry course was introduced in the department in 2015. The department of BC & IMB aspires to lead in the areas of Biochemistry & Industrial Microbiology. The main aim of our department is to create opportunities and supporting infrastructure for students to achieve their aspirations.

VISION OF THE DEPARTMENT

The Department is committed to achieving high standards in both teaching and research and to become a sought - after destination for highly motivated students and faculty. The Department aspires to lead in the areas of Biochemistry and Industrial Microbiology.

MISSION OF THE DEPARTMENT

- Empowering students through excellence in teaching - learning and other academic processes.
- To create opportunities and a supporting infrastructure for students - through laboratory courses , projects, dissertations etc to achieve their aspirations
- To maintain high standards of teaching and continually upgrading the quality of teaching through periodical review and feed-back mechanisms

Student Details

Course	Year	Girls	Boys	Total
B.Sc. Biochemistry and Industrial microbiology	I year	22	7	29
	II Year	20	13	33
	III Year	19	11	30
M.Sc.Biochemistry	I Year	10	1	11
	II Year	15	1	16
Total Count		86	33	119

Workshops/ Seminars attended

In- house

Dr.SREELEKHA .S attended

- An online workshop on “NAAC Accreditation Programme Workshop I ” organized by National College by Dr. Aravind Krishnan on 17/07/2021
- An online workshop on “NAAC Assessment and Accreditation Workshop II” on 22/07/2021 and again attended “Workshop III ” by Dr. Tojy Dominic on 24/07/2021.
- An offline workshop on “NAAC Assessment and Accreditation Workshop IV ” by Dr. Aravind Krishnan on 29/07/2021.
- An offline workshop on “NAAC Assessment and Accreditation Workshop V” by Dr. Gladston Raj S on 03/08/2021.
- An online workshop in “NAAC Assessment and Accreditation Workshop VIII” by Dr. T Santhosh Kumar on 14/08/2021.

Mrs GEETHU KRISHNA R attended

- An online workshop on “NAAC Accreditation Programme Workshop I ” organized by National College by Dr. Aravind Krishnan on 17/07/2021
- An online workshop on “NAAC Assessment and Accreditation Workshop II” on 22/07/2021 and again attended “Workshop III” by Dr. Tojy Dominic on 24/07/2021.
- An offline workshop on “NAAC Assessment and Accreditation Workshop IV ” by Dr. Aravind Krishnan on 29/07/2021.
- An offline workshop on “NAAC Assessment and Accreditation Workshop V” by Dr. Gladston Raj S on 03/08/2021.
- An online workshop in “NAAC Assessment and Accreditation Workshop VIII” by Dr. T Santhosh Kumar on 14/08/2021.

Mrs.RAKHI V R attended

- An online workshop on “NAAC Accreditation Programme Workshop I ” organized by National College by Dr. Aravind Krishnan on 17/07/2021
- An online workshop on “NAAC Assessment and Accreditation Workshop II” on 22/07/2021 and again attended “Workshop III” by Dr. Tojy Dominic on 24/07/2021.
- An offline workshop on “NAAC Assessment and Accreditation Workshop IV ” by

Dr. Aravind Krishnan on 29/07/2021.

- An offline workshop on “NAAC Assessment and Accreditation Workshop V” by Dr. Gladston Raj S on 03/08/2021.
- An online workshop in “NAAC Assessment and Accreditation Workshop VIII” by Dr. T Santhosh Kumar on 14/08/2021.

Mrs DEEPTHI R V attended

- An online workshop on “NAAC Accreditation Programme Workshop I ” organized by National College by Dr. Aravind Krishnan on 17/07/2021
- An online workshop on “NAAC Assessment and Accreditation Workshop II” on 22/07/2021 and again attended “Workshop III” by Dr. Tojy Dominic on 24/07/2021.
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- An online workshop in “NAAC Assessment and Accreditation Workshop VIII” by Dr. T Santhosh Kumar on 14/08/2021.

Mrs SHAHANA SHIHAB attended

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- An online workshop in “NAAC Assessment and Accreditation Workshop VIII” by Dr. T Santhosh Kumar on 14/08/2021.

Mrs AKHILA.B attended

- An online workshop on “NAAC Accreditation Programme Workshop I ” organized by National College by Dr. Aravind Krishnan on 17/07/2021

- An online workshop on “NAAC Assessment and Accreditation Workshop II” on 22/07/2021 and again attended “Workshop III” by Dr. Tojy Dominic on 24/07/2021.
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- An online workshop in “NAAC Assessment and Accreditation Workshop VIII” by Dr. T Santhosh Kumar on 14/08/2021.

Mrs ATHILA.A attended

- An online workshop on “NAAC Accreditation Programme Workshop I ” organized by National College by Dr. Aravind Krishnan on 17/07/2021
- An online workshop on “NAAC Assessment and Accreditation Workshop II” on 22/07/2021 and again attended “Workshop III” by Dr. Tojy Dominic on 24/07/2021.
- An offline workshop on “NAAC Assessment and Accreditation Workshop IV ” by Dr. Aravind Krishnan on 29/07/2021.
- An offline workshop on “NAAC Assessment and Accreditation Workshop V” by Dr. Gladston Raj S on 03/08/2021.
- An online workshop in “NAAC Assessment and Accreditation Workshop VIII” by Dr. T Santhosh Kumar on 14/08/2021.

Outside

- Mrs GEETHU KRISHNA R attended

- An FDP on “Blended Learning for Higher Education” organized by the ICT, MH trust in association with IQAC, National College.
- National Level 7 day FDP on “Accreditation Framework” organized by IQAC, Christ Nagar College, Maranallor from 31/08/2021 to 07/09/2021.
- An awareness program under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION on 08/02/2022

Mrs.RAKHI V R attended

- an FDP on “Blended Learning for Higher Education” organized by the ICT, MH trust in association with IQAC, National College.
- An awareness program under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION on 08/02/2022

Mrs DEEPTHI R V attended

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Mrs AKHILA.B attended

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- An awareness program under NATIONAL INTELLECTUAL PROPERTY

AWARENESS MISSION on 08/02/2022

Mrs ATHILA.A attended

- an FDP on “Blended Learning for Higher Education” organized by the ICT, MH trust in association with IQAC, National College.
- An awareness program under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION on 08/02/2022

Dr NISHA V R attended

- an FDP on “Blended Learning for Higher Education” organized by the ICT, MH trust in association with IQAC, National College.

Department Results

Course Pass Percentage 2021 - 2022

B.Sc Biochemistry and Industrial microbiology:

Total number of students registered: 30

Total number of students appeared: 29

Total number of students passed: 14

Pass Percentage: 48.27%

MSc Biochemistry :

Total number of students registered: 17

Total number of Students appeared: 17

Total number of students passed: 12

Pass Percentage: 70.58%

Achievements & Activities of Students

The Department of Biochemistry and Industrial Microbiology includes very vibrant and young students who all showed their talents and abilities in various fields during the last academic year 2021-22.

- Miss AARYA J ANIL secured **FIRST RANK** in BSc Biochemistry and Industrial Microbiology degree examination of the University of Kerala.



- Miss SRUTHI SANILKUMAR secured **SECOND RANK** in BSc Biochemistry and Industrial Microbiology degree examination of the University of Kerala.



- Miss Parvathy Rajan secured **THIRD RANK** in the MSc Biochemistry Degree examination of the University of Kerala.
- Parvathy Rajan also qualified for the PhD entrance examination conducted by the University of Kerala.



- Sruthy V A of S6 IMB secured 3rd position in essay competition in Intercollegiate competition conducted by University Institute of Technology, Feb 2022.



- Saira S Hussain, S2 MSc ,won the Second position in the poster presentation competition conducted by Women cell and gender justice forum of National college



- Sagar of S4 IMB secured 2nd prize & Nazrin of S2 IMB secured 3rd prize for essay writing competition conducted by Womens Cell & Gender Justice forum of our college.



- Karuna Krishnan of S4 IMB secured 2nd prize in quiz competition conducted by NSSunit on World Reading day.



- Shivaprabha, Ananth, Gowtham Sekhar, Indrajith, Krishna Suresh & Ashiq of S2 IMB participated in Young Innovators Programme conducted by KDISC, Govt of Kerala.
- Anakha of s4 IMB participated in INSA – SERB essay competition conducted by Indian National Science Academy
- An International student from Bangladesh with ICCR scholarship Miss Shaoli Sarkar joined our department.

- **Kerala University Youth Festival -April 23-27,2022**

The Kerala University Youth Festival was held in Kollam from April 23 to 27. Our department students also participated in various events and showed their talent.

- Adithya Achariya of S2 Bsc
was a part of the National College
Thiruvathira team



- Devu S B of S2 Bsc
was a part of the National College
oppana team



- Greshwin P G of S2 MSc was a part of the National College Group Song team



College Union 2021-22

- DEVU S B of S2 BSc was elected unanimously as the vice chairperson of college union



Inter College Cricket Match- 04.03.2022 to 08.03.200

- Gowtham Sekhar(S2 IMB),Arshid Anvar, Abhilash G & Vignesh R (S6IMB) participated in Kerala University Intercollegiate Cricket Tournament .



- Aswin M Nair & Midhun A of S6 IMB are first runner up of Kerala University Intercollegiate Roll Ball tournament, 2022.



PLACEMENT 2021 -2022

- Uma got placed as a Medical Coding Trainer at Tranzors, Thiruvananthapuram.



- Manasi got placed as a Project Assistant at Athmic Biotech Solutions Pvt. Ltd., Thiruvananthapuram.



- Pournami MS and Panchami MS from batch 2019 – 21 were designated as Biochemistry Lab trainees at Ananthapuri Hospital, Thiruvananthapuram.

DEPARTMENTAL ACTIVITIES

SCIENCE CLUB -“SCIENTIA “

A Science club was formed during the academic year 2021 and was named “SCIENTIA “. The club’s primary aim was to develop a scientific attitude and develop an interest in scientific activities. The members of the club included students and department teachers. The club meets weekly and many seminars, presentations and workshops were organized by the club and presented by the students. Club has been successful in inspiring students in the field of science.

Department also celebrated World Water day on March 22nd by giving awareness to students about conserving natural resources focussing on the theme ' Valuing Water '. Debate was conducted on the topic Ways to Conserve Water.

Orientation classes

- Student Orientation classes were organized by the department teachers for fresher students . Daily classes were taken on specific topics like scope and career options in life science stream, Research, CSIR UGC NET Examination,.A special counseling session was taken by Dr.Muhammed Fasil (HOD,BSW Department, National College) on how to face examinations and how to manage stress.
- Career development classes were taken for the final year students about the higher studies and career options in our field.

STUDY TOUR 2022

This year, department emphasised on co-curricular activities to ensure harmonious personality development of students and organised Industrial Visit to VERGHESE KURIAN INSTITUTE OF DAIRY & FOOD TECHNOLOGY, Mannuthy and Departmental tour for final year students from 23rd March 2022 to 26th March 2022 to Coorg, Belur and Wayanad.



Departmental Contributions to the College

- Mrs Geethu Krishna R serves as one of the Academic Council Members, member of NAAC criteria II and member of Alumni Association Committee
- MRS RAKHI V R serves as one of the Academic Council Members and member of NAAC criteria IV
- MRS DEEPTHI R V serves as a member of NAAC criteria II and book club. She was the coordinator college extension activity 2021
- MRS SHAHANA SHIHAB serves as a member of NAAC criteria II , member of Alumni Association Committee and a member of department coordinator committee
- MRS AKHILA .B serves as a member of NAAC criteria III and member of the College Staff Club committee.
- MRS ATHILA .A serves as a member of NAAC criteria II and member of Alumni Association Committee
- DR.NISHA V R serves as a member of placement cell committee

Department PTA Meetings

B.Sc. Biochemistry and Industrial microbiology

Meeting No. 1

Date : 12/06/2021

Mode : online

Class : S2 BSC

Class in charge : Mrs Deepthi R V

Agenda : Discussing first series examination results

No. of parents attended :33

Feedback : Most of the parents requested to have frequent PTA meetings.

Meeting No. 2

Date : 02/10/2021

Mode : online

Class : S5 BSC

Class in charge : Mrs Geethu Krishna R

Agenda : Discussing the series examination results

No. of parents attended :30

Feedback : Most of the parents expressed their concern about online mode classes and their wards performance

Meeting No. 3

Date : 16/03/2022

Mode : online

Class : S6 BSC

Class in charge :Mrs Shahana Shihab

Agenda : Discussion about industrial visit and result analysis

No. of parents attended :27

Feedback :Parents of 27 students were willing to send their wards for IV

Meeting No. 4

Date : 11/04/2022

Mode : offline

Class : S1 BSC

Class in charge : MRS RAKHI V R

Agenda : Discussing the first series examination results.

No. of parents attended :10

Feedback : Most of the parents were concerned about the marks. and all of them were satisfied with
the discipline of the college

Meeting No. 5

Date : 12/04/2022

Mode : offline

Class : S1 BSC

Class in charge : MRS RAKHI V R

Agenda : Discussing the first series examination results.

No. of parents attended :10

Feedback : Most of the parents were concerned about the marks. and all of them were satisfied with
the discipline of the college

Meeting No. 6

Date : 18/04/2022

Mode : offline

Class : S1 BSC

Class in charge : MRS RAKHI V R

Agenda : Discussing the first series examination results.

No. of parents attended :7

Feedback : Most of the parents were concerned about the marks. and all of them were satisfied with
the discipline of the college

MSc BIOCHEMISTRY

Meeting No. 1

Date : 12/08/2021

Mode : online

Class : S2 MSC

Class in charge : Mrs RAKHI V R

Agenda : Discussing first series examination results

No. of parents attended :16

Feedback : Parents were concerned about the online mode classes

Meeting No. 2

Date : 10/01/2022

Mode : online

Class : S1 MSC

Class in charge : Mrs Soumya S J

Agenda : Discussion about the online mode classes and their review about it

No. of parents attended :11

Feedback : Most of the parents preferred online classes due to covid situation and they were satisfied with the classes and college discipline

Meeting No. 3

Date : 18/04/2022

Mode : online

Class : S2 MSC

Class in charge : Mrs Nisha V R

Agenda : Discussing the series examination results

No. of parents attended :11

Feedback : Most of the parents were not satisfied with their wards performance.

DEPARTMENT LEVEL MONITORING COMMITTEE (DLMC) REPORT 2021-2022

Our department had organized regular DLMC meetings during the year 2021 - 2022 where the members discussed the college council meeting minutes. Based on that, decisions were taken to maintain the departmental discipline and academic excellence .

Members of DLMC discussed about

- The work and progress of academic activities of all semesters
 - ❖ conduct of internal examinations
 - ❖ remedial classes for slow learners
 - ❖ feedback on online mode classes
 - ❖ project and IV for the final year students.
- Semester wise result analysis
- Scheduling PTA meetings
- Conduct of programmes and extra curricular activities for students

2019 - 2022 batch

