



**RAMAIAH**  
College of Arts, Science &  
Commerce

ಎಮ್ ಎಸ್ ರಾಮಯ್ಯ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜು

**M S Ramaiah College of Arts, Science and Commerce**

Re-accredited 'A' by NAAC, Permanently Affiliated to Bengaluru City University,

Approved by Government of Karnataka, Approved by AICTE, New Delhi,

Recognized by UGC under 2f & 12B of UGC act 1956



(National Institutional Ranking Framework, Ministry of Education, Govt of India)

Ranked 62<sup>nd</sup> in NIRF India Ranking by MHRD, New Delhi

DBT Star College Scheme

**Report on**  
**Value added Program**  
**on**  
**TECHNIQUES IN MOLECULAR BIOLOGY AND RDT**  
**From 18<sup>th</sup> to 21<sup>st</sup> July 2022**

The department of Microbiology had organized 4 days Add on program on Techniques in Molecular Biology and RDT from 18<sup>th</sup> July to 21<sup>st</sup> July 2022

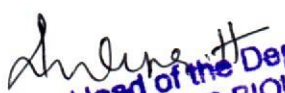
The main **objective** was to train the students with hands on experience on the basic and advanced concepts of Molecular Biology which involves- Agarose Gel Electrophoresis, Isolation of Genomic and Plasmid DNA, Restriction Digestion and *In Vitro* DNA Ligation and to create awareness in higher education in the field of life sciences and modern research.

**Thirty-two students of II- and III-year B.Sc.** registered for the add on program. The sessions of the add on program were divided into 3 modules for 4 days.

On day one, the program was inaugurated by Dr. Pushpa H, Vice Principal and HOD, department of Microbiology. She welcomed students and gave an overview of the Value-Added Programs conducted by department of Microbiology for the academic year. Mrs. Soumya S Shanbhag addressed the students for the add on program and gave an overview of the program and the schedule.

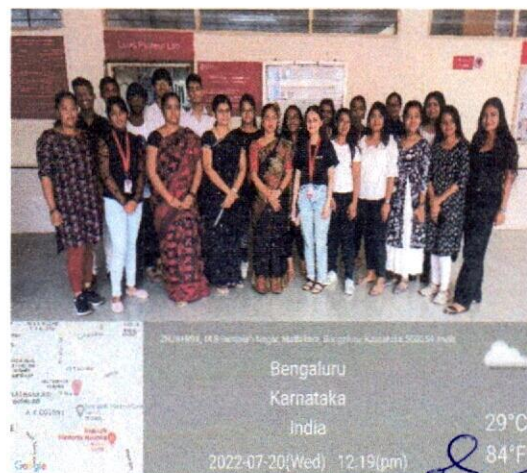
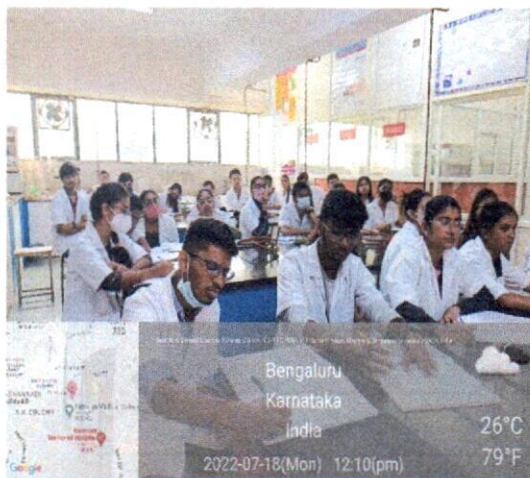
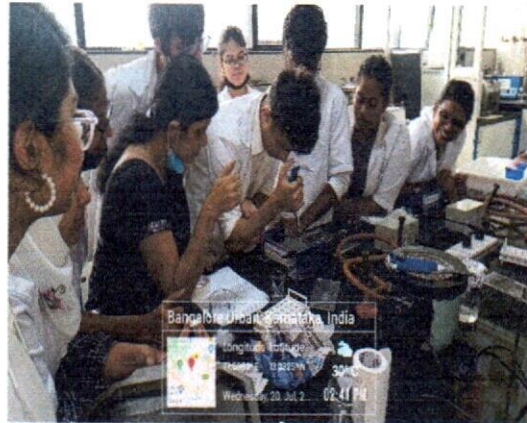
The first session was started with the presentation on "Introduction to Molecular Biology and its Importance in Research" by Dr. Ch. Bhanupriya, Assistant professor, Dept. of Microbiology. This was followed by the theory session on "Introduction and preparation of buffers and calibration of pH meter" where students were given an insight on importance of buffers and the theory behind buffer preparation.

Post lunch session was hands on training on "Preparation of Buffers" where students calibrated pH meter, prepared Phosphate buffer, Citrate buffer and Tris-HCl buffer and checked the pH using pH meter. The session was handled by Mrs. Soumya S Shanbhag, Assistant Professor, Dept. of Microbiology. By end of the session students inoculated culture for genomic DNA extraction.

  
Head of the Department,  
MICRO BIOLOGY  
Ramaiah College of Arts,  
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Bangalore - 560 054

  
Principal,  
M.S. Ramaiah College of Arts, Science & Commerce  
MSRIT Post, MSR Nagar  
Bangalore - 560 054





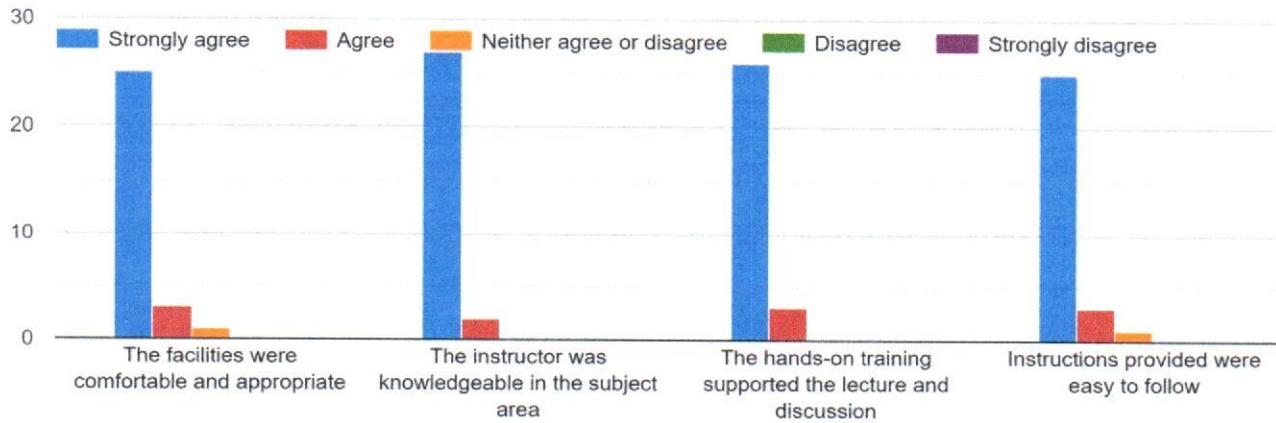
*Signature*  
 Head of the Department  
 CRO BIOLOGY  
 M.S. Ramaiah College of Arts,  
 Science & Commerce  
 Bangalore - 560 054

*Signature*  
 Principal,  
 M.S. Ramaiah College of Arts, Science & Commerce  
 MSRIT Post, MSR Nagar  
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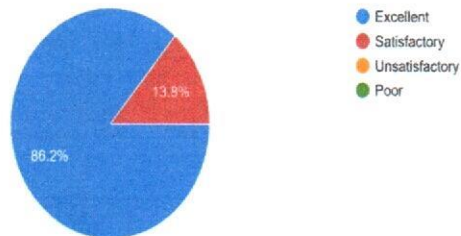
## Feedback Responses

Please agree/disagree with the following statements relevant to value added program



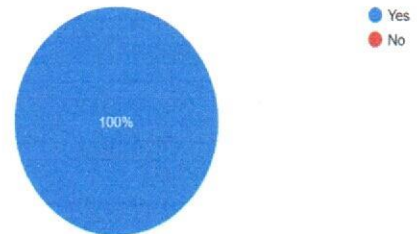
Overall how would you recommend the quality of this event?

29 responses



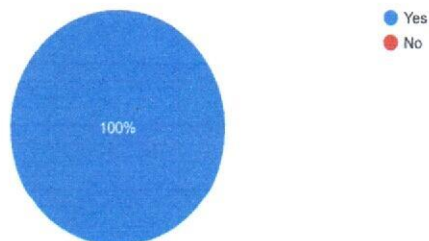
Have your skills/Knowledge increased as a result of participating in the event?

29 responses



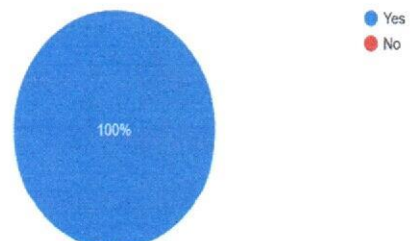
Would you recommend this event to someone else?

29 responses



Would you consider attending another event like this with us?

29 responses



*Anil H*  
**Head of the Department**  
**MICRO BIOLOGY**  
**Ramaiah College of Arts,**  
**Science & Commerce**  
**Bangalore - 560 054**

*[Signature]*  
**Principal,**  
**M.S. Ramaiah College of Arts, Science & Commerce**  
**MSRIT Post, MSR Nagar**  
**Bangalore - 560 054**



# RAMAIAH COLLEGE OF ARTS, SCIENCE AND COMMERCE

## DEPARTMENT OF MICROBIOLOGY

### VALUE ADDED PROGRAM ON MOLECULAR BIOLOGY AND RDT under DBT STAR COLLEGE SCHEME

From 18<sup>th</sup> to 21<sup>st</sup> July 2022

### LIST OF PARTICIPANTS

| SI No. | Name of the Students | Reg. No. | Mobile Number | Seme ster | Signature       |                 |                 |                 |
|--------|----------------------|----------|---------------|-----------|-----------------|-----------------|-----------------|-----------------|
|        |                      |          |               |           | Day 1           | Day 2           | Day 3           | Day 4           |
| 1      | Meenakshi Anoop      | S2014428 | 7338332726    | IV        | Meenakshi       | Meenakshi       | Meenakshi       | Meenakshi       |
| 2      | Sakshi N Ullal       | S2014580 | 9740618802    | IV        | Sakshi          | Sakshi          | Sakshi          | Sakshi          |
| 3      | Rhitankar Mukherjee  | S1914556 | 9836074741    | VI        | Rhitankar       | Rhitankar       | Rhitankar       | Rhitankar       |
| 4      | sambhav jain         | S1914566 | 8660619599    | VI        | Sambhav         | Sambhav         | Sambhav         | Sambhav         |
| 5      | Vishwas R            | S1914459 | 9731702962    | VI        | R.Vishwas       | R.Vishwas       | R.Vishwas       | R.Vishwas       |
| 6      | SA VISHRUTHA         | S1914562 | 7026712077    | VI        | Vishrutha       | Vishrutha       | Vishrutha       | Vishrutha       |
| 7      | SWARUPA BANERJEE     | S1914591 | 9735461522    | VI        | Swarna Banerjee | Swarna Banerjee | Swarna Banerjee | Swarna Banerjee |
| 8      | NEHAL SUBBA          | S1914536 | 6363874052    | VI        | N.Subba         | N.Subba         | N.Subba         | N.Subba         |
| 9      | Samriddhi Mukherjee  | S2014583 | 6205058269    | IV        | Samriddhi       | Samriddhi       | Samriddhi       | Samriddhi       |
| 10     | Shruti Meshram       | S2014459 | 9075635460    | IV        | Shruti          | Shruti          | Shruti          | Shruti          |
| 11     | SURABHI SRINIVAS     | S1914588 | 8197012409    | VI        | Surabhi         | Surabhi         | Surabhi         | Surabhi         |
| 12     | Shwetha B R          | S1914578 | 7892408265    | VI        | Shwetha         | Shwetha         | Shwetha         | Shwetha         |
| 13     | NITHYA SHREE G       | S2014552 | 8431653009    | IV        | Nithya          | Nithya          | Nithya          | Nithya          |
| 14     | HARSHITH REDDY C K   | S2014503 | 9988300366    | IV        | Harshith        | Harshith        | Harshith        | Harshith        |
| 15     | Parth khanduri       | S2014433 | 9305728083    | IV        |                 |                 |                 |                 |
| 16     | D S SHREYAS          | S2014485 | 6362087609    | IV        | SREYAS          | SREYAS          | SREYAS          | SREYAS          |
| 17     | Smruti Bhat          | S1914452 | 9448513202    | VI        | Smruti          | Smruti          | Smruti          | Smruti          |

Principal,  
M.S. Ramaiah College of Arts, Science & Commerce  
MSRIT Post, MSR Nagar  
Bangaalor - 560 054



| Sl No. | Name of the Students | Reg. No. | Mobile Number | Semester | Signature      |                |                |                |
|--------|----------------------|----------|---------------|----------|----------------|----------------|----------------|----------------|
| 18     | DEEPIKA S            | S2014488 | 8951168163    | IV       | Deepika        | Deepika        | Deepika        | Deepika        |
| 19     | Sneha S              | S1914579 | 8073067914    | VI       | Sneha          | Sneha          | Sneha          | Sneha          |
| 20     | Sai Nand             | S2014579 | 9980836631    | IV       | Sai Nand       | Sai Nand       | Sai Nand       | Sai Nand       |
| 21     | Bhuvanajalee Basnett | S2014412 | 9002201600    | IV       | Bhujalee       | Bhujalee       | Bhujalee       | Bhujalee       |
| 22     | Shreyas M            | S1914576 | 7406860726    | VI       | Shreyas M      | Shreyas M      | Shreyas M      | Shreyas M      |
| 23     | NIKHITHA C THAMMAIAH | S1914538 | 9731881968    | VI       | Nikhitha       | Nikhitha       | Nikhitha       | Nikhitha       |
| 24     | HARINI A KHEMKAR     | S2014500 | 08660428345   | IV       | Hk             | Hk             | Hk             | Hk             |
| 25     | Charitha prasad      | S2014482 | 9900494610    | IV       | Charitha       | Charitha       | Charitha       | Charitha       |
| 26     | N G Sayi Sudharshana | S2014588 | 9886844670    | IV       | Sudharshana    | Sudharshana    | Sudharshana    | Sudharshana    |
| 27     | Syed Momin Muskan    | S1914592 | 8951802660    | VI       | Muskan         | Muskan         | Muskan         | Muskan         |
| 28     | Rohini R             | S1914559 | 7259367771    | VI       | Rohini R       | Rohini R       | Rohini R       | Rohini R       |
| 29     | SR Yashaswini        | S1914561 | 9110473670    | VI       | Yashaswini     | Yashaswini     | Yashaswini     | Yashaswini     |
| 30     | S.Suryaja Iyer       | S1914453 | 9014832960    | VI       | S.Suryaja Iyer | S.Suryaja Iyer | S.Suryaja Iyer | S.Suryaja Iyer |
| 31     | Prajwal p Hebballi   | S2014560 | 9900950756    | IV       | Prajwal        | Prajwal        | Prajwal        | Prajwal        |
| 32     | Hemalatha            | S2014505 | 8951231163    | IV       | Hemalatha      | Hemalatha      | Hemalatha      | Hemalatha      |

Scrumya S. Shanbhag

Dr. Bhanupriya Ch

Dr. Nimite Venugopal. C.

Head of the Department  
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DBT Star College Scheme

REF.: MSRCASC/MB/2021-2022/009

Date: 25/05/2022

## Circular

### Department of Microbiology

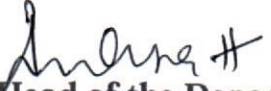
#### Value Added Programme on “Techniques in Molecular Biology and RDT”

This is to inform all II and III year B.Sc Microbiology students that Department of Microbiology is organizing 4 days Value Added Programme on “Techniques in Molecular Biology and RDT”

The workshop will be conducted 4 days from 18<sup>th</sup> to 21<sup>st</sup> July 2022 from 9.00am to 5.00pm, in Microbiology PG Lab and Classroom.

Interested students are required to give their names to the coordinators Mrs. Soumya S Shanbhag, Dr. Ch. Bhanupriya and Dr. Nimita Venugopal on or before 12<sup>th</sup> July 2022.

**Resource person** for the workshop are Mrs. Soumya S Shanbhag, Dr. Ch. Bhanupriya and Dr. Nimita Venugopal, Assistant Professors, Department of Microbiology.

  
**Head of the Department**  
**Head of the Department**  
**MICRO BIOLOGY**  
**Ramaiah College of Arts,**  
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**Principal**  
**Principal,**  
**M.S. Ramaiah College of Arts, Science & Commerce**  
**MSRIT Post, MSR Nagar**  
**Bangalore - 560 054**



## PATRONS

Dr. M. R. Jayaram, Chairman - GEF  
Sri. M. R. Janakiram, Director - GEF  
Sri. M. R. Kodandaram, Director - GEF  
Sri. B. S. Ramaprasad, Chief Executive - GEF  
Sri. Ramachandra, COF - GEF

## ORGANIZING COMMITTEE MEMBERS

Dr. A. Nagarathna, Principal, RCASC  
Dr. Pushpa H, Professor & Head  
Dr. Snehalatha V, Associate Professor  
Dr. Vemula Vani, Associate Professor  
Dr. Prasanna Srinivas R, Assistant Professor  
Mrs. Soumya S. Shanbhag, Assistant Professor  
Dr. Ashok Kumar H G, Assistant Professor  
Dr. Yogesh D, Assistant Professor  
Dr. Triveni A G, Assistant Professor  
Dr. Juliya Rani Francis, Assistant Professor  
Dr. Ramesha A, Assistant Professor  
Dr. Manikandan A, Assistant Professor  
Dr. Ch. Bhanupriya, Assistant Professor  
Dr. Nimita Venugopal C, Assistant Professor

## REGISTRATION FORM

Name: .....  
Course: .....  
Year/Sem: .....  
Contact no.: .....  
E-mail: .....  
Registration Fees: Free  
Registration Link: <https://forms.gle/j4nFjGe8pb6hJHLM7>

## Event Coordinators:

Mrs. Soumya S Shanbhag, ☎ 9740819951  
Dr. Ch. Bhanupriya ☎ 9920961413  
Dr. Nimita Venugopal C ☎ 9916048638  
Department of Microbiology, MSRCASC.



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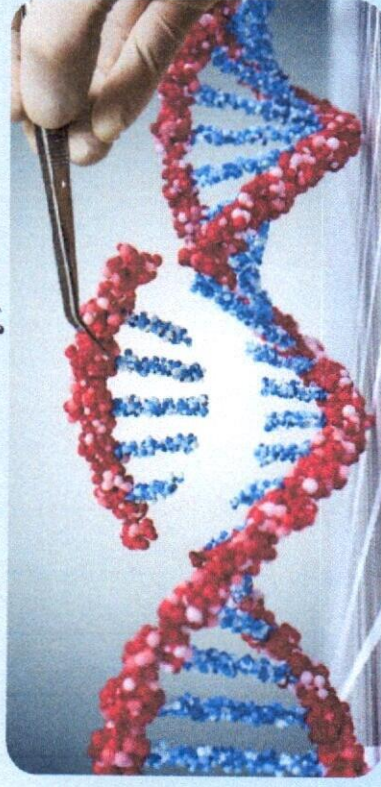


## Value added programme

on

## TECHNIQUES IN MOLECULAR BIOLOGY AND RDT (Under DBT Star College Scheme)

18<sup>th</sup> to 21<sup>st</sup> July, 2022



Organized by  
**Department of Microbiology**

**M.S. Ramaiah College of  
Arts, Science and Commerce**

MSRIT Post, MSR Nagar, Bangalore - 560 054  
[www.msrmc.edu.in](http://www.msrmc.edu.in)

(Re-accredited "A" by NAAC,  
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Approved by AICTE)



## ABOUT THE COLLEGE

Dr. M.S Ramaiah, a visionary and philanthropist established "Gokula Education Foundation (GEF)", in the year 1962, to deliver education and healthcare for the betterment of mankind. Under the umbrella of GEF, M.S Ramaiah college of Arts, Science and Commerce (MSRCASC) was established in 1994. The college is affiliated to Bengaluru City University (BCU), approved by AICTE, New Delhi, recognized by UGC under 2(f) and 12 (B) of UGC Act 1956. MSRCASC is reaccruited with "A" Grade by NAAC. MSRCASC has bagged 55<sup>th</sup> rank under college category in NIRF-2022. The college has been selected under DBT-STAR College Scheme-2020. Our college is a unique learning institution offering multidisciplinary Programs which plays a pioneering role in providing academic excellence. The college offers Eight UG Programs and six PG programs in Arts, Science, and Commerce with more than 2700 students. The College has excelled record of obtaining many University ranks and Gold medals..

### DEPARTMENT OF MICROBIOLOGY

The Department of Microbiology, established in the year 1999, offers both undergraduate and postgraduate courses. The Department has been Selected under DBT-STAR College Scheme and also the Department has received State level "Best Department Award 2021 from Microbiologist Society, India. The faculty of the department are highly qualified with experience and expertise in various domains of Microbiology. The department has very good infrastructural facilities to carry out teaching and research activities. The theory and practical classes lay emphasis on 'problem based learning', knowledge content, utility value, application in real life, latest developments etc. The department is undertaking research projects in the major thrust areas of microbiology and attracted funds from various agencies. Also, the faculty of the department carry out multidisciplinary research programs, encourage students to carryout in-house research projects, present papers, publish their research work and to participate in co-curricular and extra-curricular activities.

### ABOUT THE VALUE ADDED PROGRAMME

The current 'omics' era, emphasizes the understanding and applications of molecular biology and Recombinant DNA techniques for research.

**Objective:** The Value Added Programme aims to train the students with hands on experience on the basic and advanced concepts of Molecular Biology which involves- Agarose Gel Electrophoresis, Isolation of Genomic and Plasmid DNA, Restriction Digestion and *In Vitro* DNA Ligation.

**Outcome:** This workshop envisions to make students well acquainted with emerging technologies in Molecular Biology and RDT which will help them to perform efficiently with better understanding and designing new approaches in the area of Molecular Biology research.

| Modules                                                                                                                                                                           |                                                                                                                                                                                                         |                                                                                                                                                                                   | No. of Hours |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Module 1: Basic Concepts of Techniques in Molecular Biology                                                                                                                       | Module 2: Electrophoretic Techniques and Isolation of DNA                                                                                                                                               | Module 3: Concepts in Recombinant DNA Technology                                                                                                                                  |              |
| <ul style="list-style-type: none"> <li>•Introduction to Molecular Biology Techniques</li> <li>•Handling of Micropipettes</li> <li>•Preparation of Buffers and Reagents</li> </ul> | <ul style="list-style-type: none"> <li>•Agarose Gel Electrophoresis</li> <li>•Isolation of Genomic DNA</li> <li>•Isolation of Plasmid DNA</li> <li>•Determination of Quality of Isolated DNA</li> </ul> | <ul style="list-style-type: none"> <li>•Concept of Restriction Endonucleases and Ligases</li> <li>•Restriction Digestion of DNA</li> <li>•<i>In vitro</i> DNA Ligation</li> </ul> |              |
| Programme Schedule                                                                                                                                                                |                                                                                                                                                                                                         |                                                                                                                                                                                   |              |
| 18/7/2022                                                                                                                                                                         | Inauguration                                                                                                                                                                                            |                                                                                                                                                                                   | 1            |
|                                                                                                                                                                                   | Introduction to the Workshop and Molecular Biology Techniques                                                                                                                                           |                                                                                                                                                                                   | 2            |
| 18/7/2022                                                                                                                                                                         | Handling of Micropipettes                                                                                                                                                                               |                                                                                                                                                                                   | 1            |
|                                                                                                                                                                                   | Preparation of Buffers and Reagents                                                                                                                                                                     |                                                                                                                                                                                   | 1            |
| 19/7/2022                                                                                                                                                                         | Introduction to Electrophoretic Techniques and its Applications                                                                                                                                         |                                                                                                                                                                                   | 1            |
|                                                                                                                                                                                   | Agarose Gel Electrophoresis                                                                                                                                                                             |                                                                                                                                                                                   | 3            |
| 20/7/2022                                                                                                                                                                         | Isolation of Genomic DNA                                                                                                                                                                                |                                                                                                                                                                                   | 3            |
|                                                                                                                                                                                   | Isolation of Plasmid DNA                                                                                                                                                                                |                                                                                                                                                                                   | 3            |
|                                                                                                                                                                                   | Determination of Quality of Isolated DNA                                                                                                                                                                |                                                                                                                                                                                   | 1            |
| 21/7/2022                                                                                                                                                                         | Concept of Restriction Endonucleases and Ligases                                                                                                                                                        |                                                                                                                                                                                   | 1            |
|                                                                                                                                                                                   | Restriction Digestion of DNA                                                                                                                                                                            |                                                                                                                                                                                   | 5            |
|                                                                                                                                                                                   | <i>In vitro</i> DNA Ligation                                                                                                                                                                            |                                                                                                                                                                                   | 5            |
| 21/7/2022                                                                                                                                                                         | Applications of Molecular Biology Techniques in Research                                                                                                                                                |                                                                                                                                                                                   | 2            |
|                                                                                                                                                                                   | Assessment and Feedback                                                                                                                                                                                 |                                                                                                                                                                                   | 1            |



**Ramaiah College of Arts, Science and Commerce,  
Department of Microbiology**

Organizes  
Value Added Programme

On

**TECHNIQUES IN MOLECULAR BIOLOGY AND RDT**

**From 18<sup>th</sup> to 21<sup>st</sup> July**

**COURSE CONTENT**

**Module 1 (Basic Concepts of Techniques in Molecular Biology)**

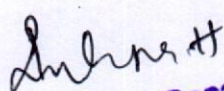
- Introduction to Molecular Biology Techniques
- Handling of Micropipettes
- Preparation of Buffers and Reagents

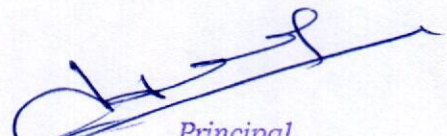
**Module 2 (Electrophoretic Techniques and Isolation of DNA)**

- Agarose Gel Electrophoresis
- Isolation of Genomic DNA
- Isolation of Plasmid DNA
- Determination of Quality of Isolated DNA

**Module 3 (Concepts in Recombinant DNA Technology)**

- Concept of Restriction Endonucleases and Ligases
- Restriction Digestion of DNA
- *In vitro* DNA Ligation

  
**Head of the Department**  
**MICRO BIOLOGY**  
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Ranked 62<sup>nd</sup> in NIRF India Ranking by MHRD, New Delhi

DBT Star College Scheme

**Department of Microbiology**

Organizes

Value Added Programme

On

**TECHNIQUES IN MOLECULAR BIOLOGY AND RDT**From 18<sup>th</sup> to 21<sup>st</sup> July (9.00am to 5.00pm)**Programme Schedule**

| Programme Schedule                       |                                                                 | No. of Hours |
|------------------------------------------|-----------------------------------------------------------------|--------------|
| 18/7/2022<br>Monday<br>(9.00 to 5.00)    | Inauguration                                                    | 1            |
|                                          | Introduction to the Workshop and Molecular Biology Techniques   | 2            |
| 18/7/2022<br>Monday<br>(9.00 to 5.00)    | Handling of Micropipettes                                       | 1            |
|                                          | Preparation of Buffers and Reagents                             | 1            |
| 19/7/2022<br>Tuesday<br>(9.00 to 5.00)   | Introduction to Electrophoretic Techniques and its Applications | 1            |
|                                          | Agarose Gel Electrophoresis                                     | 3            |
|                                          | Isolation of Genomic DNA                                        | 3            |
| 20/7/2022<br>Wednesday<br>(9.00 to 5.00) | Isolation of Plasmid DNA                                        | 3            |
|                                          | Determination of Quality of Isolated DNA                        | 1            |
| 21/7/2022<br>Thursday                    | Concept of Restriction Endonucleases and Ligases                | 1            |
|                                          | Restriction Digestion of DNA                                    | 5            |
|                                          | <i>In vitro</i> DNA Ligation                                    | 5            |
| 21/7/2022<br>Thursday<br>(9.00 to 5.00)  | Applications of Molecular Biology Techniques in Research        | 2            |
|                                          | Assessment and Feedback                                         | 1            |
| <b>Total Hours</b>                       |                                                                 | <b>30</b>    |

*[Signature]*  
Head of the Department,  
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**M S RAMAIAH COLLEGE OF ARTS, SCIENCE AND COMMERCE**

**DEPARTMENT OF MICROBIOLOGY**

**VALUE ADDED PROGRAMME**

**TECHNIQUES IN MOLECULAR BIOLOGY AND RDT**

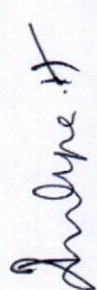
**18TH TO 21ST JULY 2022**

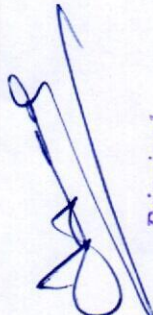
**FEEDBACK**

| Sl No | Name of the student  | Reg. No. | Class  | The facilities were comfortable and appropriate | The instructor was knowledgeable in the subject area | The hands-on training supported the lecture and discussion | [Instructions provided were easy to follow] | Have your skills/knowledge increased as a result of participating in the event? | Overall how would you recommend the quality of this event? | Would you recommend this event to someone else? | Would you consider attending another event like this with us? |
|-------|----------------------|----------|--------|-------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------|
| 1     | Nithya shree G       | S2014552 | IV Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 2     | Sambhav palrecha     | S1914566 | VI Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 3     | SA VISHRUTHA         | S1914562 | VI Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 4     | Shwetha B R          | S1914578 | VI Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 5     | SURABHI SRINIVAS     | S1914588 | VI Sem | Agree                                           | Agree                                                | Agree                                                      | Agree                                       | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 6     | Bhuvanalee Basnett   | S2014412 | IV Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 7     | Swarupa Banerjee     | S1914591 | VI Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 8     | Shreyas M            | S1914576 | VI Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 9     | Syed Momin Muskan    | S1914592 | VI Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 10    | Sayi Sudharshana NG  | S2014588 | IV Sem | Agree                                           | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Satisfactory                                               | Yes                                             | Yes                                                           |
| 11    | Samriddhi Mukherjee  | S2014583 | IV Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 12    | Rhitanakar Mukherjee | S1914556 | VI Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 13    | Hemalatha K          | S2014505 | IV Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 14    | Sakshi N Ullal       | S2014580 | IV Sem | Agree                                           | Strongly agree                                       | Agree                                                      | Agree                                       | Yes                                                                             | Satisfactory                                               | Yes                                             | Yes                                                           |
| 15    | Shruti Meshram       | S2014459 | IV Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 16    | D S SHREYAS          | S2014485 | IV Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 17    | HARSHITH REDDY C     | S2014503 | IV Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 18    | Sneha S              | S1914579 | VI Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 19    | HARINI A KHEMKAR     | S2014500 | VI Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Strongly agree                              | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |
| 20    | Deepika s            | S2014488 | IV Sem | Strongly agree                                  | Strongly agree                                       | Strongly agree                                             | Neither agree or                            | Yes                                                                             | Excellent                                                  | Yes                                             | Yes                                                           |



|    |                 |          |        |                    |                |                |                |                |                |              |     |     |
|----|-----------------|----------|--------|--------------------|----------------|----------------|----------------|----------------|----------------|--------------|-----|-----|
| 21 | Smruti Bhat     | S1914452 | VI Sem | Strongly agree     | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Excellent    | Yes | Yes |
| 22 | Nehal Subba     | S1914536 | VI Sem | Strongly agree     | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Excellent    | Yes | Yes |
| 23 | S.Suryaja Iyer  | S1914453 | VI Sem | Strongly agree     | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Excellent    | Yes | Yes |
| 24 | Rohini R        | S1914559 | VI Sem | Strongly agree     | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Satisfactory | Yes | Yes |
| 25 | Meenakshi Anoop | S2014428 | IV Sem | Strongly agree     | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Excellent    | Yes | Yes |
| 26 | Sai Nand        | S2014579 | IV Sem | Neither agree or d | Agree          | Agree          | Agree          | Strongly agree | Strongly agree | Satisfactory | Yes | Yes |
| 27 | SR Yashaswini   | S1914561 | VI Sem | Strongly agree     | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Excellent    | Yes | Yes |
| 28 | Vishwas R       | S1914459 | VI Sem | Strongly agree     | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Excellent    | Yes | Yes |
| 29 | charitha prasad | S2014482 | IV Sem | Strongly agree     | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Strongly agree | Excellent    | Yes | Yes |

  
**Head of the Department**  
**MICRO BIOLOGY**  
 Ramaiiah College of Arts,  
 Science & Commerce  
 Bangalore - 560 054

  
**Principal,**  
**M.S. Ramaiiah College of Arts, Science & Commerce**  
**MSRIT Post, MSR Nagar**  
**Bangalore - 560 054**



**M S RAMAIAH COLLEGE OF ARTS, SCIENCE AND COMMERCE**  
**DEPARTMENT OF MICROBIOLOGY**  
**VALUE ADDED PROGRAMME**  
**TECHNIQUES IN MOLECULAR BIOLOGY AND RDT**  
**18TH TO 21ST JULY 2022**  
**FEEDBACK**

| Sl No | Name of the student  | Reg. No. | Class  | Please provide any additional comments about the event.                                                                                                                                                                             |
|-------|----------------------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Nithya shree G       | S2014552 | IV Sem | Nothing                                                                                                                                                                                                                             |
| 2     | Sambhav palrecha     | S1914566 | VI Sem | Learnt a lot and helped in practical knowledge                                                                                                                                                                                      |
| 3     | SA VISHRUTHA         | S1914562 | VI Sem | Very informative and helped in developing better hands on training in molecular biology                                                                                                                                             |
| 4     | Shwetha B R          | S1914578 | VI Sem | It was very informative and helpful.                                                                                                                                                                                                |
| 5     | SURABHI SRINIVAS     | S1914588 | VI Sem | It was an informative program                                                                                                                                                                                                       |
| 6     | Bhuvanajalee Basnett | S2014412 | IV Sem | Excellent                                                                                                                                                                                                                           |
| 7     | Swarupa Banerjee     | S1914591 | VI Sem | Very informative and helpful                                                                                                                                                                                                        |
| 8     | Shreyas M            | S1914576 | VI Sem | It was very knowledgeable and informative.                                                                                                                                                                                          |
| 9     | Syed Momin Muskan    | S1914592 | VI Sem | Very knowledgeable and easily understandable                                                                                                                                                                                        |
| 10    | Sayi Sudharshana NG  | S2014588 | IV Sem | It was a good experience.                                                                                                                                                                                                           |
| 11    | Samridhi Mukherjee   | S2014583 | IV Sem | We would want more such informative extra curricular courses and practical works.                                                                                                                                                   |
| 12    | Rhitankar Mukherjee  | S1914556 | VI Sem | The courses offered by the Department of Microbiology as Value Added Program are really intree amd helped us gain extra Lab knowledge. Hand on training helped us for our future studies. Hope to participate in more such Programs |
| 13    | Hemalatha K          | S2014505 | IV Sem | The teachers were very interactive and they cleared all our duobts....gained very much practical knowledge....                                                                                                                      |
| 14    | Sakshi N Ullal       | S2014580 | IV Sem | It was great program.                                                                                                                                                                                                               |
| 15    | Shruti Meshram       | S2014459 | IV Sem | Value added program helped me to learn the concept very well. And looking forward to participate in more programs like this.                                                                                                        |
| 16    | D S SHREYAS          | S2014485 | IV Sem | Every thing was good                                                                                                                                                                                                                |
| 17    | HARSHITH REDDY C K   | S2014503 | IV Sem | Perfect Hands-On Workshop 100%                                                                                                                                                                                                      |
| 18    | Sneha S              | S1914579 | VI Sem | Informative and helpful                                                                                                                                                                                                             |



|    |                  |          |        |                                                                                                                                                                                         |
|----|------------------|----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19 | HARINI A KHEMKAR | S2014500 | VI Sem | Nimita ma'am's lecture was very fast and difficult to follow for me personally. The event overall was Excellent and I enjoyed learning all the 4 days. Thank you lecturers 😊            |
| 20 | Deepika s        | S2014488 | IV Sem | I am thankful to our HOD and all the three resource person for providing an opportunity of hands on experience.                                                                         |
| 21 | Smruti Bhat      | S1914452 | VI Sem | Amazing Hands-on-training, my skills set has definitely been improved after I missed learning this technique due to Covid in my 4th semester. Thank you for this wonderful opportunity! |
| 22 | Nehal Subba      | S1914536 | VI Sem | Everything was fine.                                                                                                                                                                    |
| 23 | S.Suryaja Iyer   | S1914453 | VI Sem | It was informative, knowledgeable, easy to follow. Thank you for conducting this training.                                                                                              |
| 24 | Rohini R         | S1914559 | VI Sem | It was a good experience                                                                                                                                                                |
| 25 | Meenakshi Anoop  | S2014428 | IV Sem | Thank you for taking the time out of your busy schedule to conduct this hands on training experience for us. It will surely help me in the future.                                      |
| 26 | Sai Nand         | S2014579 | IV Sem | Was a good experience.                                                                                                                                                                  |
| 27 | SR Yashaswini    | S1914561 | VI Sem | Good experience                                                                                                                                                                         |
| 28 | Vishwas R        | S1914459 | VI Sem | It was a very informative learning experience which will surely help me in the future. Thank you.                                                                                       |
| 29 | charitha prasad  | S2014482 | IV Sem | very knowledgeable, there was an enthusiastic response from both students and professors.                                                                                               |

- 1) Mrs. Samya S. Shanbhag *Shan* 21/7/22
- 2) Dr. Bhanupriya. Ch *Bh* 21/7/22
- 3) Dr. Nimita Venugopal. C. *Nimita* 22/7/22

*Dr. Nimita Venugopal. C.*  
Head of the Department  
MICRO BIOLOGY  
Ramaiah College of Arts,  
Science & Commerce  
Bangalore - 560 054

*Dr. Nimita Venugopal. C.*  
Principal, Science & Commerce  
M.S. Ramaiah College of Arts, Science & Commerce  
MSRIT Post, MSR Nagar  
Bangalore - 560 054





**DEPARTMENT OF MICROBIOLOGY**  
Value added Programme on  
**TECHNIQUES IN MOLECULAR BIOLOGY AND RDT**  
18<sup>th</sup> to 21<sup>st</sup> July 2022  
**Question Paper for Assessment**

The most common type of gel used for DNA separation is \*

- ☐ a. Agar
- ☐ b. Polyacrylamide
- ☐ c. Agarose
- ☐ d. All of the above

The speed of migration of ions in an electric field depends on \*

- ☐ a. Magnitude of charge and mass of molecules
- ☐ b. Magnitude of charge and shape of the molecule
- ☐ c. Shape and size of the molecule
- ☐ d. Magnitude of charge, shape and mass of molecules

The technique electrophoresis, for the separation of charged molecules was developed by \*

- ☐ a. Tswett
- ☐ b. Svedberg
- ☐ c. Tiselius
- ☐ d. Sanger

In electrophoresis, DNA will migrate towards

- ☐ a. Cathode or positive electrode
- ☐ b. Anode or negative electrode
- ☐ c. Cathode or negative electrode
- ☐ d. Anode or positive electrode





Which DNA ligase enzyme is used in genetic engineering? \*

- ☐ a. Bacterial ligase
- ☐ b. T4 ligase
- ☐ c. Yeast ligase
- ☐ d. Pseudomonas ligase

The term 'endonuclease' refers to cutting the DNA sequence from----- \*

- ☐ a. Only within the polynucleotide chain, not at the ends
- ☐ b. The ends of the chain
- ☐ c. Anywhere in the chain
- ☐ d. Exactly in the middle of the chain

After cleaving the sequence, the nature of the ends created by the type II restriction endonuclease is \*

- ☐ a. The ends created are always single stranded
- ☐ b. The ends created are always double stranded
- ☐ c. Either the ends are single stranded or they are double stranded
- ☐ d. One end is single stranded and one end is double stranded

14. Restriction enzymes are also called \*

- ☐ a. Molecular knives
- ☐ b. Molecular scissors
- ☐ c. Molecular scalpels
- ☐ d. All of the above





What is the purpose of buffer system in electrophoresis \*

- ☐ Protects the DNA from degradation
- ☐ Helps in migration of charged and molecules
- ☐ Carries the sample while resisting pH changes in the overall solution
- ☐ None of the above

Among the following who is known as the "Father of genetic engineering" \*

- ☐ Hamilton Smith
- ☐ Raymong Gosling
- ☐ Paul Berg
- ☐ Joshua lederberg

The landmark picture clicked by Raymond Gosling "Photo 51" of DNA X-ray Crystallography. \*  
Why it is named as 51??

- ☐ As it was discovered in the year 1951
- ☐ As it is the 51st photo clicked of DNA X-ray crystallography
- ☐ As there are 51 nucleotides in the DNA obtained
- ☐ As that is his lucky number

How is the purity of DNA evaluated at absorbance 260/280 nm \*

- ☐ 1.8 to 2.0
- ☐ > 2.0
- ☐ < 1.8
- ☐ 1.8



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**DEPARTMENT OF MICROBIOLOGY**  
**VALUE ADDED PROGRAMME**  
**TECHNIQUES IN MOLECULAR BIOLOGY AND RDT**  
**18TH TO 21ST JULY 2022**  
**ASSESSMENT**

| SI No | Name of the Student | REG. NO. | Email Address                    | SEM | Score   |
|-------|---------------------|----------|----------------------------------|-----|---------|
| 1     | Rhitankar Mukherjee | S1914556 | rhith.muj@gmail.com              | VI  | 32 / 40 |
| 2     | Charitha prasad     | S2014482 | charithaprasad0528@gmail.com     | IV  | 30 / 40 |
| 3     | Syed Momin Muskan   | S1914592 | muskansyed128@gmail.com          | VI  | 30 / 40 |
| 4     | Hemalatha K         | S2014505 | hemalatha6920@gmail.com          | IV  | 32 / 40 |
| 5     | Sakshi N Ullal      | S2014580 | nsakshi.2002@gmail.com           | IV  | 34 / 40 |
| 6     | S.Suryaja Iyer      | S1914453 | suryajasree98@gmail.com          | VI  | 24 / 40 |
| 7     | Sai Nand            | S2014579 | hebbarsainand@gmail.com          | IV  | 34 / 40 |
| 8     | Sayi Sudharshana NG | S2014588 | ssudharshana22@gmail.com         | IV  | 34 / 40 |
| 9     | Nithya shree G      | S2014552 | nshree495@gmail.com              | IV  | 26 / 40 |
| 10    | Harini A Khemkar    | S2014500 | harini.a.khemkar07@gmail.com     | IV  | 34 / 40 |
| 11    | Meenakshi Anoop     | S2014428 | meenakshianoop01@gmail.com       | IV  | 34 / 40 |
| 12    | Deepika s           | S2014488 | deepikasgowda03112002@gmail.com  | VI  | 32 / 40 |
| 13    | Smruti Bhat         | S1914452 | smoobhat@gmail.com               | VI  | 34 / 40 |
| 14    | Samriddhi Mukherjee | S2014583 | samriddhimukherjee1804@gmail.com | IV  | 32 / 40 |
| 15    | Bhuvanalee Basnett  | S2014412 | bhuvanaleebasnett123@gmail.com   | IV  | 26 / 40 |
| 16    | Shruti meshram      | S2014459 | shrutimeshram822@gmail.com       | IV  | 28 / 40 |
| 17    | Vishwas R           | S1914459 | vishwasr789@gmail.com            | VI  | 36 / 40 |
| 18    | Sambhav             | S1914566 | ssspjain@gmail.com               | VI  | 32 / 40 |
| 19    | HARSHITH REDDY C K  | S2014503 | harshithck2002@gmail.com         | IV  | 28 / 40 |
| 20    | Sneha.S             | S1914579 | sneha.s110201@gmail.com          | VI  | 34 / 40 |
| 21    | SA VISHRUTHA        | S1914562 | vishruthalucky@gmail.com         | VI  | 34 / 40 |
| 22    | Shwetha B R         | S1914578 | brshwetha2@gmail.com             | VI  | 34 / 40 |
| 23    | Surabhi             | S1914588 | surabhisrinivas01@gmail.com      | VI  | 34 / 40 |
| 24    | Swarupa Banerjee    | S1914591 | banerjeeswarupa16@gmail.com      | VI  | 34 / 40 |
| 25    | D S SHREYAS         | S2014485 | shreyasvicky004@gmail.com        | IV  | 24 / 40 |
| 26    | Shreyas M           | S1914576 | shreyasmahesh1868@gmail.com      | VI  | 36 / 40 |
| 27    | Nehal Subba         | S1914536 | nehaluchiha@gmail.com            | VI  | 36 / 40 |



| SI No | Name of the Student | REG. NO. | Email Address            | SEM | Score   |
|-------|---------------------|----------|--------------------------|-----|---------|
| 28    | SR Yashaswini       | S1914561 | yashaswinisr4@gmail.com  | VI  | 34 / 40 |
| 29    | Rohini R            | S1914559 | irohiniramappa@gmail.com | VI  | 32 / 40 |
| 30    | Nishant Kumar       | S2014550 | snishant902@gmail.com    | IV  | 28 / 40 |

- 1) Sravya S. Shanbhag *Sravya* 21/7/22
- 2) Dr. Bhanupriya . ch *B. Priya* 21/7/22
- 3) Dr. Nimita Venugopal . l. *Nimita* 25/7/22

*Indira H*

Head of the Department  
MICRO BIOLOGY  
Ramaiah College of Arts,  
Science & Commerce  
Bangalore - 560 054

*[Signature]*

Principal,  
M.S. Ramaiah College of Arts, Science & Commerce  
MSRIT Post, MSR Nagar  
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**RAMAIAH**  
College of Arts, Science  
& Commerce



**DEPARTMENT OF BIOTECHNOLOGY**  
MINISTRY OF SCIENCE & TECHNOLOGY,  
GOVERNMENT OF INDIA

## Certificate

This is to Certify that

*Charithra Prasad*

of B.Sc - IV Semester

has participated in Value Added Program on

Techniques in Molecular Biology and RDT-under DBT Star College Scheme held

from 18<sup>th</sup> - 21<sup>st</sup> July, 2022 Organized by The Department of Microbiology,

**M S Ramaiah College of Arts, Science and Commerce, Bangalore**

*Dr. Pushpa H*

**Dr. Pushpa H**

Vice Principal & Head, Department of Microbiology  
MSRCASC, Bangalore

*Dr. Vatsala G*

**Dr. Vatsala G**

Principal  
MSRCASC, Bangalore



RAMAIAH COLLEGE OF ARTS, SCIENCE AND COMMERCE  
DEPARTMENT OF MICROBIOLOGY  
VALUE ADDED PROGRAM ON MOLECULAR BIOLOGY AND RDT  
Certificate Distribution

| SI No. | Name of the Students | Reg. No. | Received Certificates | Signature              |
|--------|----------------------|----------|-----------------------|------------------------|
| 1      | Meenakshi Anoop      | S2014428 |                       |                        |
| 2      | Sakshi N Ullal       | S2014580 |                       |                        |
| 3      | Rhitanakar Mukherjee | S1914556 | Yes                   | <i>Rhitanakar</i>      |
| 4      | sambhav jain         | S1914566 | Yes                   | <i>Sambhav</i>         |
| 5      | Vishwas R            | S1914459 | Yes                   | <i>Vishwas</i>         |
| 6      | SA VISHRUTHA         | S1914562 | Yes                   | <i>UHL</i>             |
| 7      | Swarupa Banerjee     | S1914591 | Yes                   | <i>Banerjee</i>        |
| 8      | NEHAL SUBBA          | S1914536 | Yes                   | <i>U. Subba</i>        |
| 9      | Samridhi Mukherjee   | S2014583 |                       |                        |
| 10     | Shruti Meshram       | S2014459 |                       |                        |
| 11     | SURABHI SRINIVAS     | S1914588 | Yes                   | <i>Surabhi</i>         |
| 12     | Shwetha B R          | S1914578 | Yes                   | <i>Shwetha B R</i>     |
| 13     | NITHYA SHREE G       | S2014552 |                       |                        |
| 14     | DEEPIKA S            | S2014488 |                       |                        |
| 15     | HARSHITH REDDY C K   | S2014503 | Yes                   | <i>Harshith</i>        |
| 16     | D S SHREYAS          | S2014485 | YES                   | <i>SEE YES</i>         |
| 17     | Smriti Bhat          | S1914452 | Yes                   | <i>Smriti</i>          |
| 18     | Sneha S              | S1914579 | Yes                   | <i>Sneha S</i>         |
| 19     | Sai Nand             | S2014579 |                       |                        |
| 20     | Bhuvanajalee Basnett | S2014412 |                       |                        |
| 21     | Shreyas M            | S1914576 | Yes                   | <i>Shreyas M</i>       |
| 22     | HARINI A KHEMKAR     | S2014500 | Yes                   | <i>Harini A</i>        |
| 23     | Charitha prasad      | S2014482 |                       |                        |
| 24     | N G Sayi Sudharshana | S2014588 |                       |                        |
| 25     | Syed Momin Muskan    | S1914592 | YES                   | <i>Momin</i>           |
| 26     | Rohini R             | S1914559 | Yes                   | <i>Rohini</i>          |
| 27     | SR Yashaswini        | S1914561 | Yes                   | <i>Yashaswini</i>      |
| 28     | S. Suryaja Iyer      | S1914453 | Yes                   | <i>S. Suryaja Iyer</i> |
| 29     | Hemalatha            | S2014505 | Yes                   | <i>Hemalatha</i>       |

HOD

Resource Person



## ATTENDANCE

|    |  | Signature |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|--|-----------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|    |  | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 1  |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 2  |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 3  |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 4  |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 5  |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 6  |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 7  |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 8  |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 9  |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 10 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 11 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 12 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 13 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 14 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 15 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 16 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 17 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 18 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 19 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 20 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 21 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 22 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 23 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 24 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 25 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 26 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 27 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 28 |  |           |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |