



## PRATHYUSHA ENGINEERING COLLEGE

(An Autonomous Institution)

### DEPARTMENT OF BIOTECHNOLOGY

#### PROJECT details - 2024-2025

| S.NO | BATCH. NO | RegisterNo   | Student Name      | Internal Guide    | External Guide        | External Project Centre        | Project Title                                                                                                                                |
|------|-----------|--------------|-------------------|-------------------|-----------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 1         | 111421214001 | AASIKA SRILAXMI K | Dr. A. Sai Ramesh | Mr. V. Prasannaswaamy | Iswarya Health Private Limited | Isolation and Purification of Plasmid DNA Containing Human Chorionic Gonadotropin (hCG- $\beta$ ) subunit for Recombinant Protein Expression |
| 2    |           | 111421214012 | KARTHIKEYAN J     |                   |                       |                                |                                                                                                                                              |
| 3    | 2         | 111421214002 | AGNES EMACULATE J | Ms. R. Surekha    | Dr. P. Kalaiselvi     | PGIBMS research lab            | Evaluation of miRNA Expression Associated with Cardiovascular Disease                                                                        |

|    |   |              |                    |                     |                     |               |                                                                                                                                                                                      |
|----|---|--------------|--------------------|---------------------|---------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4  | 3 | 111421214003 | AJAISRINIVASA V    | Dr. R. Balachandar  | Mr. K. K. Prashanth | Simbioen Labs | Developing Oil in Water Nanoemulsion for Pesticides and Toxixity Model                                                                                                               |
| 5  | 4 | 111421214004 | CORAL ANJALIKA.K.J | Ms. J. Jerin Joshna | -                   | -             | Bioactivity Study on Synergistic Effect of Nilvembu ( <i>Andrographis paniculata</i> ) and Kabasura Kudineer Aqueous Extract                                                         |
| 6  |   | 111421214038 | VARSHA.A           |                     |                     |               |                                                                                                                                                                                      |
| 7  |   | 111421214039 | VIMALA G           |                     |                     |               |                                                                                                                                                                                      |
| 8  | 5 | 111421214006 | DHANUSH R          | Dr. A. Praveena     | -                   | -             | Development of Chitosan-based Wound Dressing Infused with Silver Nanoparticles and Phytochemicals from <i>Moringa olifera</i> and <i>Eclipta prostrata</i> for Enhaced Wound Healing |
| 9  |   | 111421214007 | GOWTHAM M          |                     |                     |               |                                                                                                                                                                                      |
| 10 |   | 111421214031 | SRIDHAR S          |                     |                     |               |                                                                                                                                                                                      |

|    |   |              |                       |                     |                 |                            |                                                                                                                                                     |
|----|---|--------------|-----------------------|---------------------|-----------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 11 | 6 | 111421214009 | JERRY ROSHAN ALPHONSE | Dr. R. Balachandar  | Dr. A. Ganesh   | Madurai Kamaraj University | Effect of Various Growth Regulators on <i>in vitro</i> Grown Palntlets of Soya Bean ( <i>Gylcin max</i> ) and Genetic Fingerprinting                |
| 12 |   | 111421214024 | PREM KUMAR M          |                     |                 |                            |                                                                                                                                                     |
| 13 |   | 111421214025 | RAGUNATH M            |                     |                 |                            |                                                                                                                                                     |
| 14 | 7 | 111421214010 | JEYASEAL S            | Ms. R. Surekha      | -               | -                          | Phytochemical Profiling and Bioactive Compounds Extimiation of <i>Senna auriculata</i> (Aavaram Poo) and <i>Andrographis Paniculata</i> (Nilavembu) |
| 15 |   | 111421214011 | KAMALESH M            |                     |                 |                            |                                                                                                                                                     |
| 16 |   | 111421214021 | SUGANTH N             |                     |                 |                            |                                                                                                                                                     |
| 17 | 8 | 111421214013 | KAVITHA LAKSHMI.C     | Dr. P. Kowsalya     | Dr. P. Suganthi | PGIBMS research lab        | Evaluating the Antimicrobial properties of <i>Lactoballius plantarum</i> against Antibiotic Resistance Pathogens                                    |
| 18 |   | 111421214030 | SHATHVIKA B           |                     |                 |                            |                                                                                                                                                     |
| 19 | 9 | 111421214014 | KAVIYASELVI V         | Ms. J. Jerin Joshna | -               | -                          | Fortyfyng the Forgetten: Converting Leftover rice                                                                                                   |
| 20 |   | 111421214032 | UMAMAGESWARI S        |                     |                 |                            |                                                                                                                                                     |

|    |    |              |                    |                            |                       |                                |                                                                                                                         |
|----|----|--------------|--------------------|----------------------------|-----------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|    |    |              |                    |                            |                       |                                | into Nutrition-Packed Powder with Iron and Vitamin C                                                                    |
| 21 | 10 | 111421214015 | KAYALVIZHI S       | Dr. A. Sai Ramesh          | Mr. V. Prasannaswaamy | Iswarya Health Private Limited | Extraction and Linearization of High Purity Plasmid DNA for Enhanced Omalizumab Gene Expression in Therapeutic Research |
| 22 |    | 111421214034 | SUSIKA G           |                            |                       |                                |                                                                                                                         |
| 23 | 11 | 111421214016 | KIRUTHIGA.K        | Dr. P. Kowsalya            | -                     | -                              | Antibacterial study on Green Synthesized <i>Leucas aspera</i> Carbon Nanoemulsion                                       |
| 24 |    | 111421214037 | VALARMATHI.S       |                            |                       |                                |                                                                                                                         |
| 25 | 12 | 111421214017 | NANDHIKA JOTHI S G | Ms. D. Joyce Hellen Sathya | Dr. P. Kalaiselvi     | PGIBMS research lab            | Evaluation of Biochemical, Histological, and NRF2 Expression Alterations in a Rat model of Diabetes-Induced Nephropathy |
| 26 | 13 | 111421214018 | NARMADHA M         | Dr. A. Praveena            | Mr. V. Prasannaswaamy | Iswarya Health Private Limited | Development and Optimization of Low-                                                                                    |
| 27 |    | 111421214026 | SARANYA B G        |                            |                       |                                |                                                                                                                         |

|    |    |              |                        |                    |                        |                                      |                                                                                                                      |
|----|----|--------------|------------------------|--------------------|------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------|
|    |    |              |                        |                    |                        |                                      | Immunogenecity Biosimilar Adalimumab for Rheumatoid Arthritis                                                        |
| 28 | 14 | 111421214019 | NEHA S                 | Dr. A. Sai Ramesh  | Dr. Gauthami Jawahar   | Celutron Innovations Private Limited | Bioevaluation of 3D-Printed PLA-Bioresin bone Implants in Comparison with Titanium                                   |
| 29 | 15 | 111421214020 | NIRUPAMA PRIYADARSHINI | Dr. A. Sai Ramesh  | Dr. P. Kalaiselvi      | PGIBMS research lab                  | Evaluation of Micro RNA Expression Patterns Associated with Diabetes Mellitus                                        |
| 30 | 16 | 111421214022 | PADMAPOOJA G           | Dr. P. Kowsalya    | Dr. V. G. Vaidyanathan | CSIR-CLRI                            | Role of Dopants in Carbon on Protein Structure                                                                       |
| 31 |    | 111421214029 | SATHYA SREE M          |                    |                        |                                      |                                                                                                                      |
| 32 | 17 | 111421214033 | SUNDARNATH.M           | Dr. R. Balachandar | Ms. T. Radhika         | Softgel Health Care Private Limited  | Analytical method Development and Validation for Relate Substance Of Ethosuximde Softgelatin Capsules 250 mg by HPLC |
| 33 | 18 | 111421214035 | UMMU HALIMA A          | Dr. A. Praveena    | -                      | -                                    | Isolation and                                                                                                        |

|    |    |              |                   |                            |                     |                        |                                                                                                                                                              |
|----|----|--------------|-------------------|----------------------------|---------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 34 |    | 111421214040 | ZAINAB.N          |                            |                     |                        | Biochemical Characterization of sewage microbiota with <i>in silico</i> Prediction of Novel Antimicrobial Peptide                                            |
| 35 | 19 | 111421214036 | VAISHNAVI A DIXIT | Ms. D. Joyce Hellen Sathya | Mr. K. K. Prashanth | Simbioen Labs          | Heavy Metal-Resistant Bacterial Associatd with Water Hyacinth ( <i>Eschhornia crassipes</i> ): Isolation, Characterization, and its Bioremediation Potential |
| 36 | 20 | 111421214041 | ABINAYA R         | Ms. R. Surekha             | Mr. Gourv yadav     | BioNests lab, crescent | Formulation and Analysis of Greens and Probitics Infused Functional Food Supplement                                                                          |
| 37 |    | 111421214042 | GAYATHRI N        |                            |                     |                        |                                                                                                                                                              |
| 38 |    | 111421214043 | HARITHA S         |                            |                     |                        |                                                                                                                                                              |