



# KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012

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## 48<sup>th</sup> series of Student Project Programme (SPP): 2024-25

### MIDTERM EVALUATION

**Date:** 30 April 2025, 9.30 AM

**Session Link:** <https://meet.google.com/fpu-uuzr-rvi>

**Note:** Only the below-mentioned project teams should join the session

| Sl. No. | PROPOSAL REFERENCE NO. | PROJECT TITLE                                                                                         | COURSE | BRANCH                   | NAME OF THE COLLEGE                                       | NAME OF THE GUIDE (S)                                                    | NAME OF THE STUDENT (S)                                                                        |
|---------|------------------------|-------------------------------------------------------------------------------------------------------|--------|--------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1.      | 48S_BE_1243            | EFFECT OF NATURAL FIBERS ON THE STRENGTH AND DAMAGE IN ADHESIVELY BONDED JOINTS                       | B.E.   | AERONAUTICAL ENGINEERING | K.L.S. GOGTE INSTITUTE OF TECHNOLOGY, UDYAMBAG, BELAGAAVI | Dr. LOKAMANYA CHIKMATH<br>Mr. RAMANATH M N                               | Mr. MALLIKARJUN CHINAGUNDI<br>Ms. AASTHA PATIL<br>Ms. AITAL SHAIKH<br>Ms. CHINMAYI HOSAMANI    |
| 2.      | 48S_BE_1291            | INVESTIGATING THE DYNAMICS OF SHOCK WAVE AND FLAME INTERACTION                                        | B.E.   | AERONAUTICAL ENGINEERING | K.L.S. GOGTE INSTITUTE OF TECHNOLOGY, UDYAMBAG, BELAGAAVI | Dr. LOKAMANYA CHIKMATH<br>Mr. SIDYANT KUMAR                              | Ms. MADHUSHREE M PATIL<br>Ms. NIDHI N MURKUTE<br>Mr. RAHIL I GORWANKOL<br>Ms. SOUJANYA C PATIL |
| 3.      | 48S_BE_5252            | DESIGN, DEVELOP AND NEMERICAL SIMULATION OF MEDIUM CATEGORY UAV PROPELLER FOR HIGH ALTITUDE OPERATION | B.E.   | AEROSPACE ENGINEERING    | M.S. RAMAIAH UNIVERSITY OF APPLIED SCIENCES, BENGALURU    | Mr. RAJASHEKHARAREDDY H G<br>Mr. SHAIK BEPARI<br>MOHMMED KHAJA MOINUDDIN | Mr. ADITYA JADHAV                                                                              |
| 4.      | 48S_BE_5952            | DRONE-BASED RF COUNTERMEASURE SYSTEM FOR NAVAL MISSILE DEFENSE                                        | B.E.   | AEROSPACE ENGINEERING    | M.S. RAMAIAH UNIVERSITY OF APPLIED SCIENCES, BENGALURU    | Mr. RAJASHEKHARAREDDY H G                                                | Mr. M ARUN PRASATH<br>Mr. N LATHIESH<br>Mr. POUSHIK D<br>Mr. SANDEEP G                         |

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| 5.  | 48S_BE_6261 | SMART TRACK INSPECTOR- AN AUTONOMOUS CRACK DETECTING ROBOT FOR INDAN RAILWAY                                                     | B.E. | AEROSPACE ENGINEERING    | M.S. RAMAIAH UNIVERSITY OF APPLIED SCIENCES, BENGALURU       | Mr. ADARSH KRISHNAMURTHY<br>Dr. JAYAHAR SIVASUBRAMANIAN | Mr. DILIP K<br>Mr. HITESH TAMADA                                                           |
| 6.  | 48S_BE_1156 | EXPERIMENTAL & NUMERICAL INVESTIGATION ON EFFECT OF DIVERGENCE ANGLE FOR A CONVERGENT - DIVERGENT SOLID PROPELLANT ROCKET NOZZLE | B.E. | AERONAUTICAL ENGINEERING | MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING, MOODBIDRI | Mr. AJITH KUMAR<br>Dr. EZHILMARAN                       | Mr. HARSHITH S BHANDARY<br>Ms. POORVI DEVADIGA<br>Mr. VINITH AARON<br>Mr. HUDAIF UM        |
| 7.  | 48S_BE_1702 | PERCUSSION-BASED VIBRATION AND AUDIO SIGNAL ANALYSIS FOR STRUCTURAL HEALTH MONITORING OF BOLTED JOINTS IN AIRCRAFT STRUCTURES    | B.E. | AERONAUTICAL ENGINEERING | MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING, MOODBIDRI | Mr. AJITH KUMAR                                         | Ms. SPOORTI HANCHINAL<br>Ms. JANAKI KADDI<br>Ms. KHUSH FATHIMA<br>Mr. MOHAMMED RAIF KHADER |
| 8.  | 48S_BE_0484 | AERODYNAMIC ANALYSIS AND DEVELOPMENT OF A TRAILING-EDGE MORPHING WING FOR WIND TURBINES                                          | B.E. | AERONAUTICAL ENGINEERING | NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU           | Mr. SIDDALINGAPPA P K                                   | Ms. SRUSHTI SHASHIKANTH JOSHI<br>Ms. REHAMATH M                                            |
| 9.  | 48S_BE_2233 | DESIGN, ANALYSIS & WEIGHT OPTIMIZATION OF HYDROGEN FUEL CELL FOR LONG ENDURANCE UAV                                              | B.E. | AERONAUTICAL ENGINEERING | NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU           | Prof. FAREEN NIZAMI<br>Prof. MALLAPPA JABADE            | Mr. UJWAL S KALAL<br>Mr. NAVEEN K N<br>Mr. PRATEEK M H                                     |
| 10. | 48S_BE_2240 | DESIGN AND ANALYSIS OF DRONE SHROUD FOR PROPELLER NOISE REDUCTION                                                                | B.E. | AERONAUTICAL ENGINEERING | NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU           | Dr. VENUGOPAL M.M<br>Mr. ABHISHEK T.K                   | Mr. JAYANTH GOWDA B.V<br>Mr. B R GAURAV RAJU<br>Mr. JEEVAN KUMAR S N                       |

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| 11. | 48S_BE_3815 | DESIGNING AND AERODYNAMIC INVESTIGATION OF HYPERSONIC INLET INSPIRED BY PRAWN ROSTRUM ARCHITECTURE                                     | B.E. | AERONAUTICAL ENGINEERING | NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU | Dr. JINI RAJ R                        | Mr. DHARIGOUDA S PATIL<br>Ms. BHAGYASHREE PARASHARAM<br>BALEKUNDRI<br>Ms. SANSKRUTI S CHINCHEWADI |
| 12. | 48S_BE_4860 | ENHANCING AERODYNAMIC PERFORMANCE AND EFFICIENCY OF HAWT BLADES BY SURFACE AND DEFLECTION ANGLE MODIFICATION                           | B.E. | AERONAUTICAL ENGINEERING | NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU | Dr. SIDDALINGAPPA P K                 | Mr. A R KEVEN<br>Mr. AMAN AHMED                                                                   |
| 13. | 48S_BE_5180 | DESIGN OF A HYBRID VERTICAL AXIS WIND TURBINE (HVAWT) FEATURING LEADING-EDGE TUBERCLE BLADES FOR POWER GENERATION ON NATIONAL HIGHWAYS | B.E. | AERONAUTICAL ENGINEERING | NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU | Mr. DEEPAK KUMAR. P<br>Dr. JINI RAJ R | Mr. K. G. SUDHARSAN BABU<br>Ms. ANUSHA M. A.                                                      |
| 14. | 48S_BE_1658 | DESIGN AND DEVELOPMENT OF LOW-SPEED SUBSONIC SMART WIND TUNNEL                                                                         | B.E. | AERONAUTICAL ENGINEERING | S.J.C. INSTITUTE OF TECHNOLOGY, CHIKKABALLAPURA    | Dr. DEEPA M S<br>Mr. SRINIVASA G M    | Mr. NAYAN KUMAR K J<br>Mr. DHANUSH A N<br>Mr. RITHVIK D R<br>Ms. NIKITHA H N                      |
| 15. | 48S_BE_0384 | DESIGN AND ANALYSIS OF A RE-ENTRY VEHICLE WITH DOCKING SYSTEM TAILORED TO INDIAN SPACE STANDARDS                                       | B.E. | AEROSPACE ENGINEERING    | S.J.C. INSTITUTE OF TECHNOLOGY, CHIKKABALLAPURA    | Dr. MADHUSUDHANA S V                  | Mr. PRITHVIRAJ M TALWAR<br>Ms. MAITREYI R MUDRI<br>Ms. DEEKSHA R<br>Mr. PRAKASH B GEDAGERI        |
| 16. | 48S_BE_0798 | DESIGN AND FABRICATION OF SOLID PROPELLANT TEST RIG                                                                                    | B.E. | AEROSPACE ENGINEERING    | S.J.C. INSTITUTE OF TECHNOLOGY, CHIKKABALLAPURA    | Prof. NARESH D C                      | Ms. MADHURA N C<br>Ms. CHANDANA KUMARI N<br>Ms. TEJASHREE S                                       |

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| 17. | 48S_BE_2109 | RC FLYING WING<br>AIRCRAFT FOR<br>AGRICULTURAL<br>MONITORING                                                                   | B.E. | AEROSPACE<br>ENGINEERING    | S.J.C. INSTITUTE OF<br>TECHNOLOGY,<br>CHIKKABALLAPURA  | Dr. RAVIKUMAR M        | Mr. AGNIK DEBNATH<br>Ms. ANJANA<br>Mr. MADHUSUDAN REDDY<br>KS<br>Mr. SURYANARAYANA MC          |
| 18. | 48S_BE_5535 | COLD GAS THERUSTERS                                                                                                            | B.E. | AERONAUTICAL<br>ENGINEERING | SHREE DEVI<br>INSTITUTE OF<br>TECHNOLOGY,<br>MANGALURU | Mr. MOHAMMED<br>HASHIM | Mr. BHARATH M<br>Mr. DHANUSH K<br>Mr. K H MOHAMMED<br>HASAN<br>Mr. MOHAMMED RIMAZ<br>MIKDAAD   |
| 19. | 48S_BE_0696 | DEVELOPMENT AND<br>TESTING OF SOUND-<br>REDUCED PROPELLER<br>BLADES FOR UAVS                                                   | B.E. | AERONAUTICAL<br>ENGINEERING | SRINIVAS INSTITUTE<br>OF TECHNOLOGY,<br>MANGALURU      | Dr. RAJESH             | Mr. LOY KIRAN DSOUZA<br>Mr. DEELEN SANJUJE<br>FERNANDES<br>Mr. RISHI RAI C S<br>Ms. VARSHA Y C |
| 20. | 48S_BE_0799 | DEVELOPING ZNO BASED<br>CARBON / SILK<br>MULTIFUNCTIONAL<br>COMPOSITES USED IN<br>AIRCRAFT FOR<br>PIEZOELECTRIC<br>APPLICATION | B.E. | AERONAUTICAL<br>ENGINEERING | SRINIVAS INSTITUTE<br>OF TECHNOLOGY,<br>MANGALURU      | Dr. LOKESH K S         | Ms. MITHASHREE M<br>Mr. MOHAMMED HAYYAN<br>Ms. PRATHEEKSHA C<br>Ms. SHREYA S                   |