

**KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**  
*Indian Institute of Science Campus, Bengaluru – 560 012*

**45<sup>th</sup> series of Student Project Programme (SPP): 2021-22**

**State Level Seminar and Exhibition on 12<sup>th</sup> and 13<sup>th</sup> August 2022 at  
Visvesvaraya Technological University (VTU), Belagavi**

**BEST PERFORMING COLLEGE AWARD OF 45<sup>TH</sup> SERIES OF SPP  
SRI SAIRAM COLLEGE OF ENGINEERING, ANEKAL, BENGALURU**

**BEST PROJECTS OF THE YEAR 2021-22 OF  
45<sup>TH</sup> SERIES STUDENT PROJECT PROGRAMME**

**SEMINAR PROJECTS**

**AERONAUTICAL ENGINEERING**

Sl. No.	PROJECT REFERENCE NO.	PROJECT
1.	45S_BE_2137	ROBOTIC ARM INSTALLED FRUIT PLUCKING UAV- BASED ON AI • SRINIVAS INSTITUTE OF TECHNOLOGY, MANGALURU GUIDE(S): Mr. SRINIDHI KUKKILA STUDENT(S): Mr. NAVNEET SONI, Mr. NAVEEN KUMAR T M Mr. VARDHAMAN RAVINDRA VASAWADE and Mr. NITHIN KUMAR H K

**BIOTECHNOLOGY**

2.	45S_BE_1534	CLONING AND EXPRESSION OF LIPASE AS A BIOCATALYST FOR BIODIESEL PRODUCTION • B.V.V. SANGHA'S BASAVESHWAR ENGINEERING COLLEGE, BAGALKOT GUIDE(S): Dr. BHARATI METI Prof. SHILPA JIGAJINNI STUDENT(S): Ms. SHREYA SATYANARAYAN BHAT Ms. SPOORTHI R KULKARNI
3.	45S_BE_0982	STUDYING THE CRITICAL ASSOCIATION OFOMICRON SPIKE PROTEIN WITH HUMAN ACE2 PROTEIN: APPROACH TO DEVELOP QUINOLINE DERIVATIVES AND NOVEL PEPTIDES AS ANTIMICROBIAL AGENT • DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU GUIDE(S): Dr. N RAJESWARI Dr. HEMAKUMAR C STUDENT(S): Ms. SPOORTHI N Ms. MITALI V SHETTY AND Ms. V SHRISTI SHARMA

**CHEMICAL ENGINEERING**

4.	45S_BE_4671	ADSORPTION STUDIES ON IMMOBILIZED CHITOSAN AND POLYANILINE COATED CHITOSAN AS BIOSORBENT MATERIAL FOR REMOVAL OF CHROMIUM FROM EFFLUENTS • DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU GUIDE(S): Mr. MAHESH KUMAR SHETTY STUDENT(S): Mr. MAYURAKRISHNA R Mr. VINEET JHA Mr. SITHANSHU.M and Mr. SUJAN BHARANI
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## CHEMISTRY

5.	45S_MSc_122	CUO-GRAPHENE / CU-GO NANOCOMPOSITES AS A POTENTIAL CATALYST FOR FUEL CELL APPLICATIONS • RANI CHANNAMMA UNIVERSITY, BELAGAVI GUIDE(S): Dr. P. M. GURUBASAVARAJ STUDENT(S): Ms. MANSOORA MOMIN Ms. LAXMI MADAWALI Ms. DILSHAD MULLA
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## CIVIL ENGINEERING

6.	45S_BE_1015	RECLAMATION AND REUSE OF GREYWATER BY CONSTRUCTION OF WETLANDS • B.V.V. SANGHA'S BASAVESHWAR ENGINEERING COLLEGE, BAGALKOT GUIDE(S): Prof. S. M. KALAGUDI Dr. P.G. RAKARADDI STUDENT(S): Mr. RAGHAV R BHATTAD Ms. VEDA PATIL Mr. IZAZAHMED MAKUTMSAB BALIKAI Mr. MANJUNATH B LUTIMATH
7.	45S_BE_3370	DEFLUORIDATION OF GROUNDWATER BY MODIFIED MORINGA SEEDS • CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY, TUMAKURU GUIDE(S): Ms. RAMYA H N STUDENT(S): Mr. KIRAN B Mr. SAJJAN K S Ms. AMBIKA N S Ms. BHOOMIKA T
8.	45S_BE_1596	COMPOSITE TILES • G.M. INSTITUTE OF TECHNOLOGY, DAVANAGERE GUIDE(S): Mr. PUTTARAJ M H STUDENT(S): Mr. AMARNATH SWAMY S M Ms. DEVIKA HEBBAL Mr. HANUMANTHA GOWDA M Mr. HEMANTH M AMBEDKAR
9.	45S_BE_1385	DEWEEDING IN PONDS BY CHEMICAL TREATMENT: A CASE STUDY • S.J.C. INSTITUTE OF TECHNOLOGY, CHIKKABALLAPURA GUIDE(S): Ms. BHAVYA S STUDENT(S): Ms. HAMSHITHA D Ms. HARSHITHA E Mr. GIRISH A Mr. JEETENDRA KUMAR YADAV
10.	45S_BE_0015	TREATMENT OF SULLAGE WATER USING TAMARIND SEED POWDER AS COAGULANT USING COAGULANT PROCESS • SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, UDUPI GUIDE(S): Ms. DEEPIKA B V STUDENT(S): Mr. SHOUKATH ALI K H Ms. VRANDANA K G Ms. KRIPA SHETTY H

## COMPUTER SCIENCE AND ENGINEERING

11.	45S_MTech_041	EXPERIMENTAL EVALUATION OF SECURE FAULT-TOLERANT SENSOR NETWORK COMMUNICATION PERFORMANCE • MANIPAL INSTITUTE OF TECHNOLOGY, MANIPAL GUIDE(S): Mr. RADHAKRISHNA BHAT STUDENT(S): Ms. PAVITHRA NAYAK K
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12.	45S_BE_4773	<p>IOT BASED TOLL COLLECTION SYSTEM USING RFID</p> <ul style="list-style-type: none"> <li>P.D.A. COLLEGE OF ENGINEERING, KALABURAGI</li> </ul> <p>GUIDE(S): Ms. SHRIDEVI SOMA STUDENT(S): Ms. SNEHA Ms. VIJAYALAXMI</p>
13.	45S_BE_0370	<p>AUTOMATED PROCTORING SYSTEM TO DETECT ANOMALOUS BEHAVIOUR IN E-LEARNING DURING TIMES OF CRISIS</p> <ul style="list-style-type: none"> <li>DON BOSCO INSTITUTE OF TECHNOLOGY, BENGALURU</li> </ul> <p>GUIDE(S): Dr. MANJUNATHSWAMY B E STUDENT(S): Mr. RANJEET RATHOD Mr. PADMARAJ D MANAGAVE Mr. RAKSHITH GOWDA R Mr. KARTHIK S SAGAR</p>
14.	45S_BE_4809	<p>RETURN PATH NAVIGATION</p> <ul style="list-style-type: none"> <li>REVA UNIVERSITY, BENGALURU</li> </ul> <p>GUIDE(S): Prof. HARSHINI R STUDENT(S): Mr. SAMARTH D VALMIKI Mr. RAGHAVENDRA A Mr. HITENDRA SAI KUMAR Mr. R HEMANTH KUMAR</p>
15.	45S_BE_1815	<p>PREDICTION OF CARDIOVASCULAR DISEASE</p> <ul style="list-style-type: none"> <li>VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU</li> </ul> <p>GUIDE(S): Dr. RAMAKRISHNA HEGDE STUDENT(S): Ms. SHREE RAKSHA G M Ms. SHIVANI M N Ms. SHRINIDHI P S Ms. THASHWIN MONNAPPA M M</p>

#### INFORMATION SCIENCE AND ENGINEERING

16.	45S_BE_2200	<p>VIDEO TO TEXT SUMMERIZATION USING NEUTRAL NETWORKS</p> <ul style="list-style-type: none"> <li>A.P.S. COLLEGE OF ENGINEERING, BENGALURU</li> </ul> <p>GUIDE(S): Ms. PALLAVI H B STUDENT(S): Mr. A BALAJI Ms. BHAVANA R Ms. VARUNA T S and Ms. PAVITHRA D</p>
17.	45S_BE_4635	<p>AI BASED PROCTORING SYSTEM FOR ONLINE TESTS</p> <ul style="list-style-type: none"> <li>B.G.S. INSTITUTE OF TECHNOLOGY, MANDYA</li> </ul> <p>GUIDE(S): Mrs. VIDHYA S G STUDENT(S): Ms. VANDANA Ms. HEMA Ms. JEEVITHA M D. and Ms. NISCHITHA K B</p>

#### ENVIRONMENTAL ENGINEERING

18.	45S_MTech_090	<p>BIO-DEGRADATION OF PLASTIC USING GREATER WAX MOTH (GALLERIA MELLONELA)</p> <ul style="list-style-type: none"> <li>J.S.S. SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU</li> </ul> <p>GUIDE(S): Dr. PUSHPA TUPPAD STUDENT(S): Ms. SHRAVANA S NARASANNAVAR</p>
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#### STRUCTURAL ENGINEERING

19.	45S_MTech_108	<p>STRUCTURAL HEALTH MONITORING OF RC STRUCTURAL ELEMENTS EXPOSED TO HIGH TEMPERATURE USING IOT AND RETROFITTING OF TEMPERATURE DAMAGED STRUCTURAL ELEMENTS ADOPTING SUSTAINABLE MATERIALS</p> <ul style="list-style-type: none"> <li>RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU</li> </ul> <p>GUIDE(S): Dr. Y K GURUPRASAD STUDENT(S): Ms. MEGHASHREE L</p>
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## ELECTRONICS AND COMMUNICATION ENGINEERING

20.	45S_BE_3815	<p>IOT BASED REMOTE ELECTRONIC VOTING SYSTEM USING AADHAR AND DUAL BIOMETRIC AUTHENTICATION</p> <ul style="list-style-type: none"> <li>• Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, BENGALURU</li> </ul> <p>GUIDE(S): Dr. RANGASWAMY Y STUDENT(S): Mr. SURAJ H P Mr. SKANDA G Mr. SHOBITH G BHARAMSHETTY Mr. SRIKANTH P S</p>
21.	45S_BE_3952	<p>DESIGN &amp; SIMULATION OF 5G MULTIBAND ANTENNA WITH PHASE SHIFT OPERATION</p> <ul style="list-style-type: none"> <li>• SHARNBASVA UNIVERSITY, KALABURAGI</li> </ul> <p>GUIDE(S): Ms. LAXMI Ms. SHOBHANA STUDENT(S): Ms. PRATIKSHA Ms. SHREYA RAWOOR Ms. PRIYANKA Ms. SAVITA</p>

## ELECTRONIC SCIENCE

22.	45S_MSc_043	<p>DESIGN AND DEVELOPMENT OF A NOVEL HIGH ENERGY DENSITY AND HIGH-POWER NANO COMPOSITE BASED SUPER CAPACITOR FOR HIGH ENERGY STORAGE APPLICATIONS</p> <ul style="list-style-type: none"> <li>• BANGALORE UNIVERSITY, BENGALURU</li> </ul> <p>GUIDE(S): Dr. H M MAHESH Dr. BASAVARAJ ANGADI STUDENT(S): Mr. VINAY PRASAD S Mr. ADARSH V N Mr. GIRISH B DONI and Mr. NANDAKUMAR V</p>
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## MECHANICAL ENGINEERING

23.	45S_BE_2686	<p>DESIGN AND DEVELOPMENT OF AN IOT BASED MOBILITY REHABILITATION DEVICE INTEGRATED WITH GAIT PATTERN RECORDING DEVICE FOR ELDERLY AND PHYSICALLY CHALLENGED</p> <ul style="list-style-type: none"> <li>• J.S.S. ACADEMY OF TECHNICAL EDUCATION, BENGALURU</li> </ul> <p>GUIDE(S): Dr. GOWREESH SUBRAMANYA S Ms. D. N. ROOPA STUDENT(S): Mr. KESHAVAMURTHY P S Ms. RAMYASHREE.T Ms. KAVYA B. and Mr. MANOJ S</p>
24.	45S_BE_0153	<p>MODIFIED DESALINATION SYSTEM WITH WATER COOLED CONDENSER OPERATED BY THE SOLAR PV PANEL</p> <ul style="list-style-type: none"> <li>• K.L.S. VISHWANATHRAO DESHPANDE INSTITUTE OF TECHNOLOGY, HALIYAL, UTTARA KANNADA</li> </ul> <p>GUIDE(S): Dr. SHANKAR N BADIGER STUDENT(S): Mr. GANESH AMATE Mr. DARSHAN N ASTEKAR Mr. DHEERAJ P BENACHEKAR and Mr. DILIP S GURAV</p>
25.	45S_BE_1834	<p>CONVERTING SCRAP VEHICLE TO AN LOW-COST ECO FRIENDLY 2-WHEELER USING UNIVERSAL CONVERSION KIT</p> <ul style="list-style-type: none"> <li>• MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING, MOOBBIDRI</li> </ul> <p>GUIDE(S): Mr. SWAROOP STUDENT(S): Mr. GAGAN GUNAKAR Mr. GIRISH Mr. HASHEEL ISMAIL ABDUL RAHIMAN Ms. MEGHA B H</p>

26.	45S_BE_3978	DESIGN AND DEVELOPMENT OF HYDROGEN BASED DUAL FUEL SI ENGINE <ul style="list-style-type: none"> <li>RAMAIAH UNIVERSITY OF APPLIED SCIENCES, BENGALURU</li> </ul> GUIDE(S): Dr. ANANTH. S. IYENGAR STUDENT(S): Mr. PAVAN J GOWDA Mr. RAKSHITH R Mr. MANJUNATH Mr. AKHILESH S
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#### MECHANICAL ENGINEERING (BIOFUEL PROJECT)

27.	45S_BE_2702	TO STUDY CHARACTERIZATION AND PERFORMANCE ANALYSIS OF DIFFERENT USED COOKING OIL (UCO) WITH SOLVENT BLENDS AS FUEL SOURCE IN IC ENGINES <ul style="list-style-type: none"> <li>JAWAHARLAL NEHRU NEW COLLEGE OF ENGINEERING, SHIVAMOGGA</li> </ul> GUIDE(S): Dr. RAVI KUMAR B N Mr. CHETHAN S G STUDENT(S): Mr. SUMANTH S NADIG Mr. NANDEESH H U Mr. SHREYAS S Mr. LOHITH V
28.	45S_BE_1602	DEVELOPMENT OF HETEROGENEOUS PHOTOCATALYTIC METHOD FOR BIODIESEL PRODUCTION <ul style="list-style-type: none"> <li>SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU</li> </ul> GUIDE(S): Dr. OMKARESH B.R. Dr. H.S. LALITHAMBA STUDENT(S): Ms. SHASHWATA PATRA Mr. SHAWN HRITHIK Mr. SHIVAKUMAR H B Mr. SHARATH U M

#### MECHATRONICS

29.	45S_BE_1235	SMART LPG CYLINDER MANAGEMENT SYSTEM USING CLOUD COMPUTING <ul style="list-style-type: none"> <li>SRI VENKATESHWARA COLLEGE OF ENGINEERING, BENGALURU</li> </ul> GUIDE(S): Mr. SARVESH ARABALLI STUDENT(S): Mr. BHUVAN H S Mr. AJIEETH A Mr. VIKAS B Mr. MAHESH S
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#### MANUFACTURING SCIENCE AND ENGINEERING

30.	45S_MTech_114	EXPLORING THE OPTICAL CHARACTERIZATION OF CARBON NANOTUBES / REDUCED GRAPHENE OXIDE NANOPARTICLES DOPED WITH POLY VINYL ALCOHOL FOR OPTOELECTRONIC DEVICES AND PHOTONIC APPLICATIONS <ul style="list-style-type: none"> <li>RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU</li> </ul> GUIDE(S): Dr. RAVEENDRA MELAVANKI Dr. C SIDDARAJU STUDENT(S): Mr. S HARI KRISHNA
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#### MARKETING

31.	45S_MBA_021	ENABLING VILLAGE CLUSTERS DEVELOPMENT THROUGH TECHNOLOGY INTERVENTION <ul style="list-style-type: none"> <li>SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU</li> </ul> GUIDE(S): Dr. C SOMASHEKAR Dr. S PANNEERSELVAM STUDENT(S): Mr. KUSHAL KUMAR T. V Mr. LIKHITH M J Ms. LIKHITHA J REDDY and Mr. MANJUNATHA K K
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## MASTER OF BUSINESS ADMINISTRATION

32.	45S_MBA_019	<p>PARADIGM SHIFT IN WORK CULTURE DUE TO COVID 19 - AN EMPIRICAL STUDY IN DAKSHINA KANNADA</p> <ul style="list-style-type: none"><li>VIVEKANANDA COLLEGE OF ENGINEERING AND TECHNOLOGY, PUTTUR, DAKSHINA KANNADA</li></ul> <p>GUIDE(S): Ms. JEEVITHA B V Ms. RESHMA PAI A</p> <p>STUDENT(S): Ms. ANKITHA S Mr. MANJUNATH H M Ms. SHWETHA K Mr. KRUTHAN B K</p>
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## EXHIBITION PROJECTS

### AERONAUTICAL ENGINEERING

33.	45S_BE_4237	<p>HELIUM-ASSISTED HYBRID DRONE FOR FLIGHT TIME ENHANCEMENT</p> <ul style="list-style-type: none"><li>DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU</li></ul> <p>GUIDE(S): Dr. SRIKANTH SALYAN Prof. V YAMINI ANOOSHA</p> <p>STUDENT(S): Mr. MADHAN KUMAR Mr. AJITH KUMAR S B Mr. PRAMOD K Mr. V SREEKANTH</p>
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### BIOTECHNOLOGY

34.	45S_BE_4004	<p>NOVEL BIOCOMPOSITE FILM MADE OF COLLAGEN EXTRACTED FROM TILAPIA FISH SKIN, TO TREAT OPEN WOUNDS IN ELDERLY</p> <ul style="list-style-type: none"><li>DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU</li></ul> <p>GUIDE(S): Dr. BLESSY BABY MATHEW Dr. ANANTHARAJU K. S.</p> <p>STUDENT(S): Ms. SUPRITHA M Ms. HANISHA A Ms. M JAHNAVI CHOWDHARY Ms. R U SAKTHI</p>
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### CHEMISTRY

35.	45S_MSc_046	<p>DESIGN AND FABRICATION OF LITHIUM-ION BATTERY USING CURCUMIN ISOLATED FROM TURMERIC</p> <ul style="list-style-type: none"><li>N.M.K.R.V. COLLEGE FOR WOMEN, BENGALURU</li></ul> <p>GUIDE(S): Dr. ROOPA. D. L Dr. VIJETH R. SHETTY</p> <p>STUDENT(S): Ms. ASHVINI. I.S Ms. RAJITHA G V</p>
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### CIVIL ENGINEERING

36.	45S_BE_0219	<p>MODELLING OF LIGHTENING ARRESTING SYSTEM USING SOLAR PANELS AND HARVESTING THE ENERGY IN BATTERY AND UTILISING THE SAME FOR PRODUCTION OF ELECTRICITY</p> <ul style="list-style-type: none"><li>DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU</li></ul> <p>GUIDE(S): Mrs. SUSHMA C K</p> <p>STUDENT(S): Mr. CHINTALA SAITEJA Ms. ERAM SHAYUK Ms. BHAVYASHREE N and Ms. BHAGYASHREE</p>
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37.	45S_BE_0433	DIGITAL DOCUMENTATION AND PRESERVATION OF HERITAGE STRUCTURE USING REVERSE ENGINEERING. <ul style="list-style-type: none"> <li>DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU</li> </ul> GUIDE(S): Prof. NEETHU URS STUDENT(S): Mr. SUHAS M Mr. PRITHVI N PRABHU Ms. PRERANA J P and Mr. VIKAS K T
38.	45S_BE_4108	FABRICATION AND EXPERIMENTAL INVESTIGATIONS OF LOW-COST MULTIPURPOSE DISMOUNTABLE BAMBOO GEODESIC DOME <ul style="list-style-type: none"> <li>SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU</li> </ul> GUIDE(S): Ms. ROOPA M STUDENT(S): Mr. SRIRAKSHA R DAS Ms. SANJANA M Ms. THUNGASHREE B S and Mr. PAVAN H S

### COMPUTER SCIENCE AND ENGINEERING

39.	45S_BE_4680	EYE-MOVE - AN EFFICIENT EYE-TYPING APPLICATION <ul style="list-style-type: none"> <li>B.M.S. COLLEGE OF ENGINEERING, BULL TEMPLE ROAD, BENGALURU</li> </ul> GUIDE(S): Dr. SHYAMALA G STUDENT(S): Mr. CHANDAN C BAGAN Mr. ABHAYA V Mr. AKSHAY S BHARADWAJ and Mr. DHANRAJ K
40.	45S_BE_2350	HUMAN POSE ESTIMATION IN FITNESS TRACKING AND GUIDANCE <ul style="list-style-type: none"> <li>DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU</li> </ul> GUIDE(S): Mr. RAVICHANDRA H STUDENT(S): Ms. P CHARITH Mr. K R ROHIT SRIVATSA Mr. PRAJWAL KUMAR B R and Ms. NIHARIKA D
41.	45S_BE_3963	TRAINING JUNIOR DOCTORS USING VR <ul style="list-style-type: none"> <li>NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU</li> </ul> GUIDE(S): Ms. S TRISHEELA Dr. SAROJADEVI H STUDENT(S): Ms. ALISHA AHMED and Ms. GAGANA M
42.	45S_BE_3469	FACE DETECTION AND MONITORING IN MULTIPLE SURVEILLANCE FOOTAGE USING CONVOLUTIONAL NEURAL NETWORK (CNN) <ul style="list-style-type: none"> <li>SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU</li> </ul> GUIDE(S): Dr. GURURAJ MURTUGUDDE STUDENT(S): Mr. HARSH P KAVATEKAR Mr. ADITYA SHARMA R and Mr. ARUNA KUMAR
43.	45S_BE_4721	EDUVISTA 2.0 "THE FUTURE WAY OF LEARNING" <ul style="list-style-type: none"> <li>SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU</li> </ul> GUIDE(S): Dr. B. SHADAKSHARAPPA STUDENT(S): Mr. SHIVANSH KUMAR P Mr. ADITHYA PRABHU A and Ms. SAHANA N
44.	45S_BE_4746	LAKE CLEANING ROBOT <ul style="list-style-type: none"> <li>SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU</li> </ul> GUIDE(S): Prof. MALA B A Prof. JENIFER A STUDENT(S): Ms. K KEERTHI Ms. ASHWINI S Ms. LIKITHA MK and Ms. N SOUJANYA
45.	45S_BE_4029	AUTOMOBILE SURVEILLANCE AND SECURITY ESTABLISHMENT FOR SMART CITIES <ul style="list-style-type: none"> <li>SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU</li> </ul> GUIDE(S): Mr. BHARATH T S Mrs. RENUKALATHA STUDENT(S): Mr. JAYANTH T S, Mr. CHANDAN RAO C K Mr. NISHANTH N and Ms. SHARADHI R

## ELECTRICAL AND ELECTRONICS ENGINEERING

46.	45S_BE_1207	<p>STEP SOLAR STILL: DESIGN MODIFICATION IN SOLAR STILL AND INCORPORATION OF PHASE CHANGING MATERIAL TO INCREASE THE EFFICIENCY OF STEP SOLAR STILL</p> <ul style="list-style-type: none"> <li>ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BELAGAABI</li> </ul> <p>GUIDE(S): Mr. KANESH D C STUDENT(S): Mr. PAVANKUMAR RATHOD Mr. MAHESH PATIL Mr. DARSHAN KORIGERI</p>
47.	45S_BE_0352	<p>BLADELESS WINDMILL</p> <ul style="list-style-type: none"> <li>RAJARAJESWARI COLLEGE OF ENGINEERING, BENGALURU</li> </ul> <p>GUIDE(S): Ms. BHARATHI V STUDENT(S): Mr. SWASTHIK S K Mr. SANDEEP M L Mr. ANAND GUNNAPUR Mr. JAIDEV K</p>
48.	45S_BE_3700	<p>ENERGY GENERATION USING FLYWHEEL AND MAGNETS</p> <ul style="list-style-type: none"> <li>SRINIVAS INSTITUTE OF TECHNOLOGY, MANGALURU</li> </ul> <p>GUIDE(S): Mr. LOKESH B STUDENT(S): Mr. CHIRAG G POOJARY Mr. KARTHIK B Mr. SAJITH Ms. VIJETHA K NAIK</p>

## ELECTRONICS AND INSTRUMENTATION ENGINEERING

49.	45S_BE_2401	<p>WATER POLLUTION MONITORING BOAT USING IOT</p> <ul style="list-style-type: none"> <li>SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU</li> </ul> <p>GUIDE(S): Ms. H.K.E. LATHA STUDENT(S): Ms. GAGANA N Mr. SIDDARTH G.L Mr. SUDARSHAN DIXITH G.M Ms. ANANYA M</p>
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## ELECTRONICS AND COMMUNICATION ENGINEERING

50.	45S_BE_0003	<p>AFFORDABLE AND PORTABLE OXYGEN CONCENTRATOR</p> <ul style="list-style-type: none"> <li>JAIN COLLEGE OF ENGINEERING, BELAGAABI</li> </ul> <p>GUIDE(S): Prof. VINAYKUMAR R BAGALI STUDENT(S): Mr. FAIZAN ATTAR Mr. JUNAIDAHMED BEPARI Mr. AZHARUDDIN KALADAGI Mr. ARBAZMEHDI KARIKAZI</p>
51.	45S_BE_1277	<p>SURFACE EXPLORATION ROVER</p> <ul style="list-style-type: none"> <li>S.G. BALEKUNDRI INSTITUTE OF TECHNOLOGY, BELAGAABI</li> </ul> <p>GUIDE(S): Mr. ANANDRADDI NADUVINAMANI STUDENT(S): Ms. NAMRATA SUJIT MIRAJE Ms. MAYURI NULE Mr. SHIVANAND BAJANTRI Mr. RAHUL G NAKADI</p>
52.	45S_BE_2644	<p>INTELLIGENT DEVICE CONTROL USING BRAIN MACHINE INTERFACE</p> <ul style="list-style-type: none"> <li>S.J.B. INSTITUTE OF TECHNOLOGY, BENGALURU</li> </ul> <p>GUIDE(S): Dr. MAHANTESH.K STUDENT(S): Mr. NITIN.T Mr. PRANESH B Mr. SHREE CHARAN and Mr. TEJASH D P</p>



53.	45S_BE_2717	<p>SPIDER ROBOT FOR SCOUTING AND DEFENSE PURPOSE</p> <ul style="list-style-type: none"> <li>S.J.B. INSTITUTE OF TECHNOLOGY, BENGALURU</li> </ul> <p>GUIDE(S): Mrs. UMA S STUDENT(S): Mr. RAKSHITH R Mr. NAVEEN M Mr. NISHANTH S and Mr. PREM KUMAR R</p>
54.	45S_BE_0427	<p>AUTOMOBILE BLACK BOX</p> <ul style="list-style-type: none"> <li>SAMBHRAM INSTITUTE OF TECHNOLOGY, BENGALURU</li> </ul> <p>GUIDE(S): Dr. SAPNA M K STUDENT(S): Mr. NUMAN SHARIFF Mr. ANANDHAN VS</p>
55.	45S_BE_3534	<p>INTELLIGENT PACKAGING SOLUTION</p> <ul style="list-style-type: none"> <li>SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU</li> </ul> <p>GUIDE(S): Prof. SHOBHA HUGAR Dr. PRAKASH JADHAV STUDENT(S): Mr. NITISH R Mr. HARSHA R L Mr. PAVANKUMAR G V Mr. UJWAL S</p>
56.	45S_BE_2149	<p>SUPPLEMENTAL SYSTEM FOR ASSISTING THE KNEE JOINT USING PASCAL'S LAW</p> <ul style="list-style-type: none"> <li>SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, UDUPI</li> </ul> <p>GUIDE(S): Ms. SOWMYA BHAT Mr. SUDHIR STUDENT(S): Mr. TEJAS S R Mr. SUBRAMANYA S NAYAK Mr. SURAJ S Mr. CHARAN R DEVADIGA</p>
57.	45S_BE_0155	<p>SMART SCHOOL BUS USING IOT</p> <ul style="list-style-type: none"> <li>B.L.D.E.A'S V.P DR P.G.HALAKATTI COLLEGE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA</li> </ul> <p>GUIDE(S): Prof. PRAVEEN HAVALAGI Prof. JAYASHREE N.C STUDENT(S): Mr. RAKESH HONNAPPAGOL Ms. SUSHMA RATHOD Ms. SWAPNA GAVALI Ms. SUSHMA YADAV</p>
58.	45S_BE_4651	<p>SOLAR POWERED CROP NOURISHING BOT USING ARDUINO</p> <ul style="list-style-type: none"> <li>CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY, TUMAKURU</li> </ul> <p>GUIDE(S): Dr. D S SURESH STUDENT(S): Mr. HARSHITH GOWDA BV Mr. HEMANTH KUMAR Y S Mr. CHANDAN K</p>
59.	45S_BE_0860	<p>PORTABLE 3D SCANNER</p> <ul style="list-style-type: none"> <li>DON BOSCO INSTITUTE OF TECHNOLOGY, BENGALURU</li> </ul> <p>GUIDE(S): Ms. BHAGYA P STUDENT(S): Mr. RANJAN P Mr. R PRAJWAL GOWDA Mr. PATRICK BRUNO Mr. SUHAS B P</p>
60.	45S_BE_3229	<p>ELECTRONIC STETHOSCOPE USING RASPBERRY PI</p> <ul style="list-style-type: none"> <li>G.M. INSTITUTE OF TECHNOLOGY, DAVANAGERE</li> </ul> <p>GUIDE(S): Mr. CHETAN B V STUDENT(S): Mr. BHARATH S Mr. VIKAS H S Mr. MANOJ GOWDA D K Mr. MANIKANTA B</p>

## INTERDISCIPLINARY - MECH AND ECE

61.	45S_BE_0131	<p>AUTONOMOUS PESTICIDE SPRAYING AND DISEASE DETECTION UAV PLATFORM FOR ARECA NUT AND PEPPER PLANTATIONS</p> <ul style="list-style-type: none"> <li>SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALURU</li> </ul> <p>GUIDE(S): Prof. AJITH B S Prof. CHANDRA SINGH</p> <p>STUDENT(S): Mr. PRATHAM K B Ms. SHRINIDHI I S Mr. RAYNOL MENEZES Mr. RAJMOHAN KAMATH</p>
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## INFORMATION SCIENCE AND ENGINEERING

62.	45S_BE_2423	<p>VIRTUAL DRESSING ROOM USING AUGMENTED REALITY</p> <ul style="list-style-type: none"> <li>ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU</li> </ul> <p>GUIDE(S): Prof. NANJESH BENNUR Dr. SAMPATH S</p> <p>STUDENT(S): Mr. AVINASH HANUMANTAPPA SANGUR Mr. BHARATH S Mr. KEERTHI S E and Mr. PRUTHVI P J</p>
63.	45S_BE_1084	<p>AUTOMATED HYDROPONICS MONITORING SYSTEM USING IoT</p> <ul style="list-style-type: none"> <li>S.D.M. INSTITUTE OF TECHNOLOGY, UJIRE</li> </ul> <p>GUIDE(S): Dr. DHARMANNA L</p> <p>STUDENT(S): Mr. JAYANTH S Mr. NAGARAJ HEGDE Ms. NAMRATA I NAIK and Ms. NAMRATHA U I</p>
64.	45S_BE_0088	<p>ROAD SAFETY ANALYSIS BASED ON VEHICLE VIBRATION AND SOUND USING DEEP LEARNING TECHNIQUE</p> <ul style="list-style-type: none"> <li>SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALURU</li> </ul> <p>GUIDE(S): Mr. RITHESH PAKKALA P</p> <p>STUDENT(S): Mr. SUHAN ACHARYA Mr. ABHISHEK S MALLYA Mr. N RAHUL RAO and Mr. SWASTHIK SHETTY</p>
65.	45S_BE_4443	<p>SMART GLASSES TO ASSIST THE BLIND</p> <ul style="list-style-type: none"> <li>THE NATIONAL INSTITUTE OF ENGINEERING, MYSURU</li> </ul> <p>GUIDE(S): Mr. RAMPUR SRINATH Mr. SUHAS BHARADWAJ</p> <p>STUDENT(S): Mr. SHASHIDHAR R BHAT Mr. ABHINAV G M Mr. CHANDRACHOOD BHARADWAJ P and Mr. U G GOPALA KRISHNA</p>

## MECHANICAL ENGINEERING

66.	45S_BE_2683	<p>ECO-FRIENDLY CORRUGATED BAMBOO-COMPOSITE SHEETS FOR ROOFING APPLICATIONS</p> <ul style="list-style-type: none"> <li>ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU</li> </ul> <p>GUIDE(S): Mr. ANJAN KUMAR D Ms. GEETHA G CHAVAN</p> <p>STUDENT(S): Mr. KOWNAIN AHMED Mr. SHEIK IRFAN Mr. MOHAMED IBRAHIM JUNAID and Mr. SUMUKH S KASHYAP</p>
67.	45S_BE_0781	<p>CAMPUS MOBILITY FOR THE FUTURE: THE SMART ELECTRIC BICYCLE</p> <ul style="list-style-type: none"> <li>G.M. INSTITUTE OF TECHNOLOGY, DAVANAGERE</li> </ul> <p>GUIDE(S): Dr. SRINIVASA C.V.</p> <p>STUDENT(S): Mr. RACHITH C SANGA Mr. PARVEEZ KHAN Mr. PAVAN B M and Mr. VISHAL S CHAVAN</p>

68.	45S_BE_1962	<p>VAPOUR CHAMBER COOLING TECHNOLOGY</p> <ul style="list-style-type: none"> <li>GURU NANAK DEV ENGINEERING COLLEGE, BIDAR</li> </ul> <p>GUIDE(S): Dr. ANOOP KUMAR ELIA STUDENT(S): Mr. ABHISHEK SURYAWANSHI Mr. SIDDHAREDDY Mr. STANLEY CHRISTOPHER and Mr. SUNIL</p>
69.	45S_BE_2080	<p>DESIGN AND DEVELOPMENT OF 2 BLADED SAVONIUS WIND TURBINE WITH SPLITTER ELEMENT SURROUNDED BY OMNIDIRECTIONAL GUIDE VANES</p> <ul style="list-style-type: none"> <li>JAIN COLLEGE OF ENGINEERING AND TECHNOLOGY, HUBBALLI</li> </ul> <p>GUIDE(S): Mr. DEVIPRASAD N MIRASHI STUDENT(S): Mr. PRATEEK R BADIGER Mr. NARAIN S KARNOOL Mr. NAGARAJ P HANCHINAMANI Mr. ANIRUDH V KUSANUR</p>
70.	45S_BE_3199	<p>FABRICATION OF PALLETING MACHINE</p> <ul style="list-style-type: none"> <li>K.L.E. INSTITUTE OF TECHNOLOGY, HUBBALLI</li> </ul> <p>GUIDE(S): Mr. PRASHANT D BANAKAR STUDENT(S): Mr. AHMED RAZA M BICHAGATTI Mr. MUNEER NAIKAR Mr. SANTOSH NAVALGUND and Mr. SHAILENDRAKUMAR M NAZARE</p>
71.	45S_BE_3535	<p>INVESTIGATIONS ON MICROWAVE-ASSISTED JOINING OF FDM - 3D PRINTED PARTS TO OVERCOME ITS BED SIZE LIMITATION APPLIED TO UAV WINGS</p> <ul style="list-style-type: none"> <li>K.L.S. GOGTE INSTITUTE OF TECHNOLOGY, UDYAMBAG, BELAGAAVI</li> </ul> <p>GUIDE(S): Prof. VIVEK TIWARY Dr. VINAYAK R. MALIK STUDENT(S): Mr. AVIN SHETTY Mr. ADITYA MAHESH BANG Mr. ANIRUDH S RAO and Mr. HARSHIT DEEPAK KULKARNI</p>
72.	45S_BE_4090	<p>DIGITAL EDUCATION USING AUGMENTED REALITY AND VIRTUAL REALITY</p> <ul style="list-style-type: none"> <li>SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU</li> </ul> <p>GUIDE(S): Mrs. LEELA B N STUDENT(S): Mr. SHUBHAM R SOLSI Mr. CHETHAN KUMAR T M Mr. RAKESHA H S and Mr. TEJUS S</p>
73.	45S_BE_3255	<p>DESIGN AND FABRICATION OF PORTABLE DUAL AXIS SOLAR TRACKER</p> <ul style="list-style-type: none"> <li>VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU</li> </ul> <p>GUIDE(S): Mr. SHREYAS M Prof. SUDHARSHAN N STUDENT(S): Mr. BHARATH J Mr. VIKAS V Mr. VIVEK N and Mr. ANILKUMAR D M</p>
74.	45S_BE_4761	<p>DESIGN AND FABRICATION OF SESAME PEELING MACHINE</p> <ul style="list-style-type: none"> <li>SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU</li> </ul> <p>GUIDE(S): Mr. BALAJI V STUDENT(S): Mr. JAYANTH K RAMAN Mr. NAVEEN V and Mr. GOWTHAM M</p>

#### MEDICAL ELECTRONICS

75.	45S_BE_2285	<p>DYSMENORRHEA RELIEVER AND POSTURE SUPPORT BELT WITH A COMBINATION OF HEAT AND VIBRATION THERAPY</p> <ul style="list-style-type: none"> <li>DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU</li> </ul> <p>GUIDE(S): Ms. S HEMA PRIYADARSHINI STUDENT(S): Ms. HIMA RAVINDRA Mr. CHESLA ALDHU Mr. SARVESETTY SAI ASHISH and Ms. SOWMYASHREE H</p>
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