

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru - 560012

REPORT ON 47th SERIES OF STUDENT PROJECT PROGRAMME (SPP)

STUDENT PROJECT PROGRAMME (SPP)

KSCST initiated Student Project Programme (SPP) during 1978–79 to support innovative engineering student projects to improve the quality of education in technical institutions. The SPP program has been playing a very important role in engineering education for the last forty-five years and has become a flagship program of the Council. Products, Services, Innovation and technologies are needed for self-reliance, sustainable development and livelihoods.

The main purpose of this program is to bring out the hidden talent and innovative spirit of young engineers graduating from colleges across the State. Under this program, the Council has been providing both technical and financial support to selected projects undertaken by the final year students of science and engineering colleges across the State. KSCST has been playing a crucial role in building confidence and enhancing the capabilities of engineers graduating from the colleges in the State. So far KSCST has conducted 47 series of uninterrupted events under SPP and since inception supported more than 16,800 projects of engineering and science students.

Many projects, sponsored under this program, deal with technology applications relevant to the State. This process has been ably supported by more than hundred faculty and scientists of Indian Institute of Science (IISc), National Aerospace Laboratories (NAL), Central Manufacturing Technology Institute (CMTI), Karnataka State Council for Science and Technology (KSCST) and experts from various other research institutions and government departments. The Student Project Program of KSCST has attracted the attention of various incubation centers of engineering colleges, start-ups and technologists in the country.

The work discipline acquired by students in evolving and executing their projects, improves their analytical method and technical capabilities enabling better performance as professionals. The sponsorship, by Karnataka State Council for Science & Technology, has become a benchmark of quality for engineering student projects and these projects have been recognized and valued by both academic and industrial communities.

In this program, several completed projects have also been identified as promising and having commercial potential. Concerned faculty/students of such projects are encouraged to go ahead for further modification wherever required and to take-up field trials or for scaling up. Projects have always been diverse, reflecting the varied interests of the students/guides and some of them are found to be very innovative.

47th Series of Student Project Programme (SPP):

KSCST had invited project proposals from final year students of science and engineering colleges across the State. As per the recommendations of the expert committee, project proposals were invited during November 2023 from the final year BE, B. Arch., M.Tech., M.Sc., M.Tech., / M.Sc., (Agriculture), MBA & MCA students for sponsorship, under the 47th series of Student Project Programme (SPP).

The following are the broad themes/areas provided by the expert committee for submitting the project proposal:

1. Structural Engineering, Geotechnical Engineering, Geomatics, Construction Technology and Management
2. Water and Environment Engineering, Transportation Engineering, Industrial and System Engineering
3. Energy Engineering, Energy for Sustainable Development, Waste Management
4. Data Science, Cyber Security, Computing, Pattern Recognition and Image Processing, Signal Processing
5. Big Data, integrating Internet of Things, Artificial Intelligence and Data Engineering (agriculture, health, education, digital literacy)
6. Networking and Communication Engineering, Embedded Systems, VLSI Design, Robotics
7. Power System Engineering, Electric Vehicles, Smart Grid Technologies and Micro-grids
8. Materials and Design Engineering, Thermal and Fluid Engineering, Manufacturing Processes and Analysis
9. Control and Automation, Biomedical Engineering, Sensors and Measurement Techniques
10. Rural Engineering and Technical support, Smart cities and infrastructure development
11. Biological / Medical Science, Physical Science, Chemical Science, Agriculture Science, Biotechnology
12. Healthcare management, Information Technology, Resources and Environmental Management.

In response, KSCST received a total of 6043 project proposals covering these themes as advertised on their website and SPP posters. For the 47th Series of SPP, 201 engineering colleges, universities, and institutions statewide participated and submitted project proposals for consideration. These proposals underwent evaluation by experts from institutions such as the Indian Institute of Science (IISc), National Aerospace Laboratories (NAL), Central Manufacturing Technology Institute (CMTI), Karnataka State Council for Science and Technology (KSCST), and others. Eventually, 1,530 project proposals from 200 institutions across the state were approved for financial support, amounting to Rs. 77,39,550/- (Rupees Seventy-Seven Lakhs Thirty-Nine Thousand Five Hundred and Fifty).

Sl. No.	Course / Degree	Total No. of projects submitted	No. of Projects Approved	Total Amount Sanctioned (Rs.)
1	B.E.	5,340	1,285	64,36,300.00
2	M.B.A	193	63	2,39,250.00
3	M.C.A.	97	33	1,56,500
4	M.Sc	268	106	6,59,500
5	M.Tech	138	41	2,31,500.00
6	M.Tech / M.Sc (Agri)	7	2	16,500.00
	Grand Total	6,043	1,530	77,39,550

Under the 47th Series of SPP, the KSCST approved a total of 1530 projects for sponsorship across 200 institutions. As part of this initiative, KSCST proposed to the AI and Robotics Technology Park at IISc., to provide support for selected projects focused on AI, ML, and robotics from the sanctioned 1530 projects.

After productive discussions and meetings with ART-Park officials, they agreed to fund 124 projects with a budget of Rs. 6,23,500/-. Here are the key details of the projects supported under ART-PARK at IISc:

Key Details of the Projects supported under ART-PARK, IISc:

- Total number of projects : 124
- B.E. : 113 Projects
- M.C.A. : 4 Projects
- M.Sc. : 3 Projects
- M.Tech. : 4 Projects
- Total number of colleges / institutions : 74
- Number of districts covered : 24

Out of the 1530 sanctioned projects, 124 projects received financial support from the AI & Robotics Technology Park (ART-Park) at IISc, amounting to Rs. 6,23,500/-. Additionally, KSCST allocated financial support of Rs. 71,16,050/- to 1406 projects, which includes 57 Biofuel projects supported by the Karnataka State Bioenergy Development Board (KSBDB), GoK, with a budget of Rs. 3,04,000/-.

List of bioenergy projects sanctioned under 47th series SPP

Sl. No.	Course	Selected for midterm evaluation	Sanctioned Amount in Rs.
1.	BE	34	1,89,500
2.	M.Tech	03	19,500
3.	M.Sc.	09	55,000
4.	MBA/MCA	11	40,000
		57	3,04,000

Amount of Rupees Three Lakhs Four Thousand only

As of June 2024, SPP grants were disbursed to 188 out of the 200 approved colleges in four batches. The remaining 12 colleges are pending disbursement of Rs. 2,18,000/- due to non-submission of Utilization Certificates (UC) / Statements of Expenditure (SE) for previous years. Additionally, two institutions have not provided their bank account details.

Mid-term evaluations of the supported projects took place between May and June 2024. 68 online sessions were conducted with the technical support of 41 experts. Out of the 1530 projects scheduled for online evaluation, 111 projects were absent during the mid-term evaluation, while 1419 projects were evaluated.

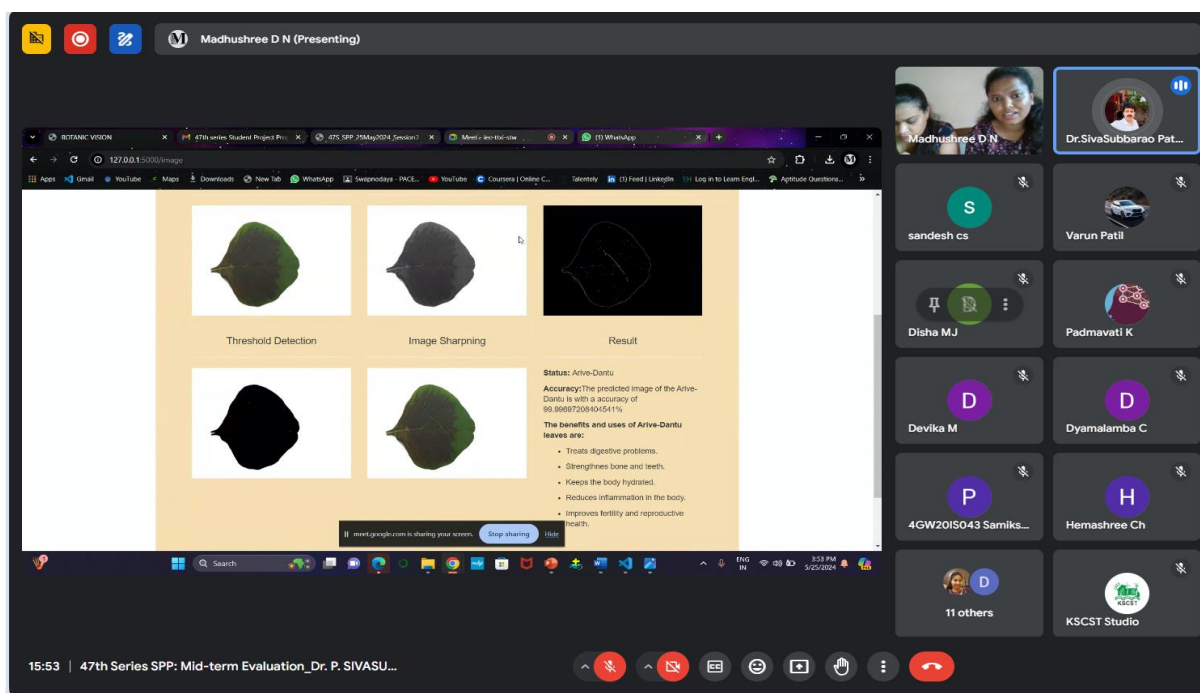
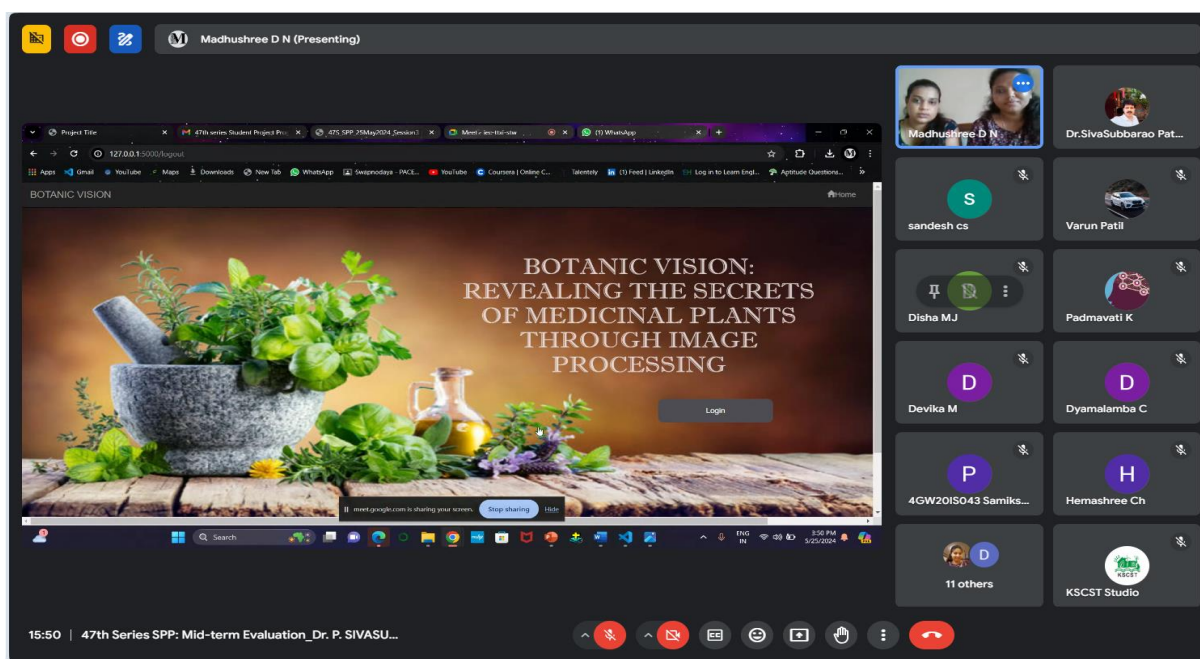
A total of 354 projects have been recommended by subject experts for the Annual State-level Poster Presentation and Exhibition. This selection comprises 153 projects for the Poster Presentation and 201 projects for the Exhibition, involving 142 engineering institutions across the state.

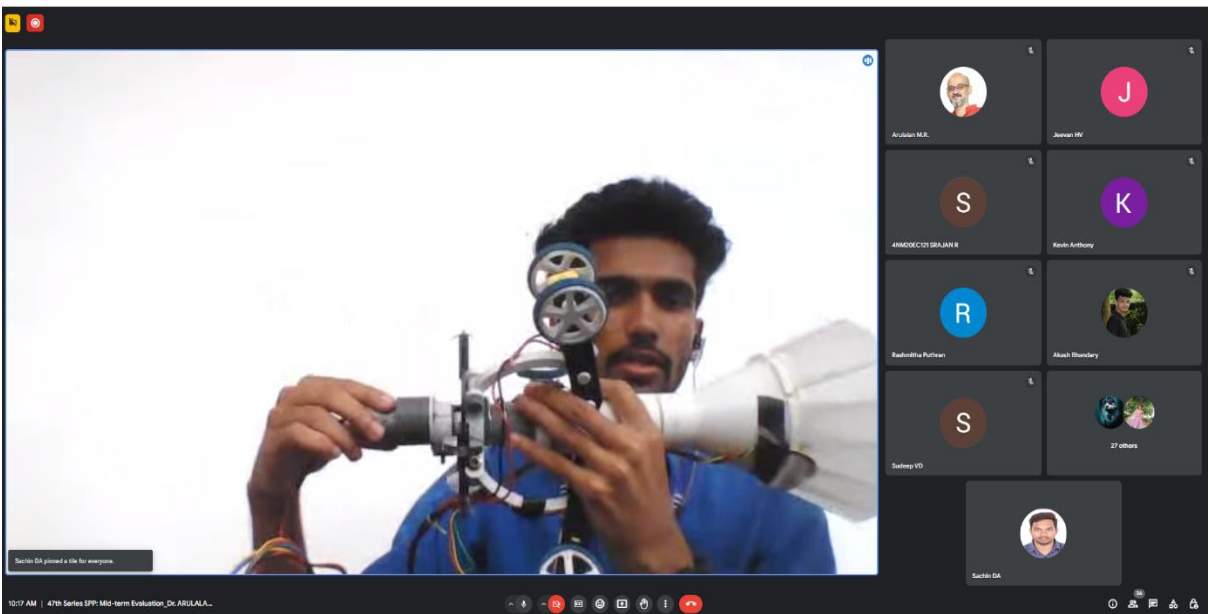
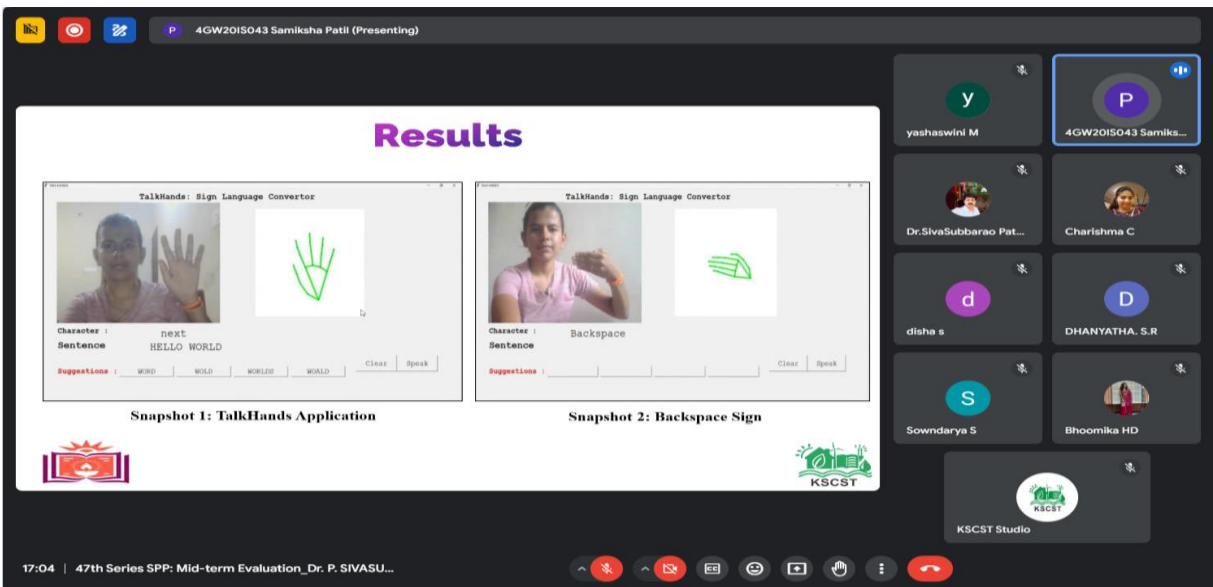
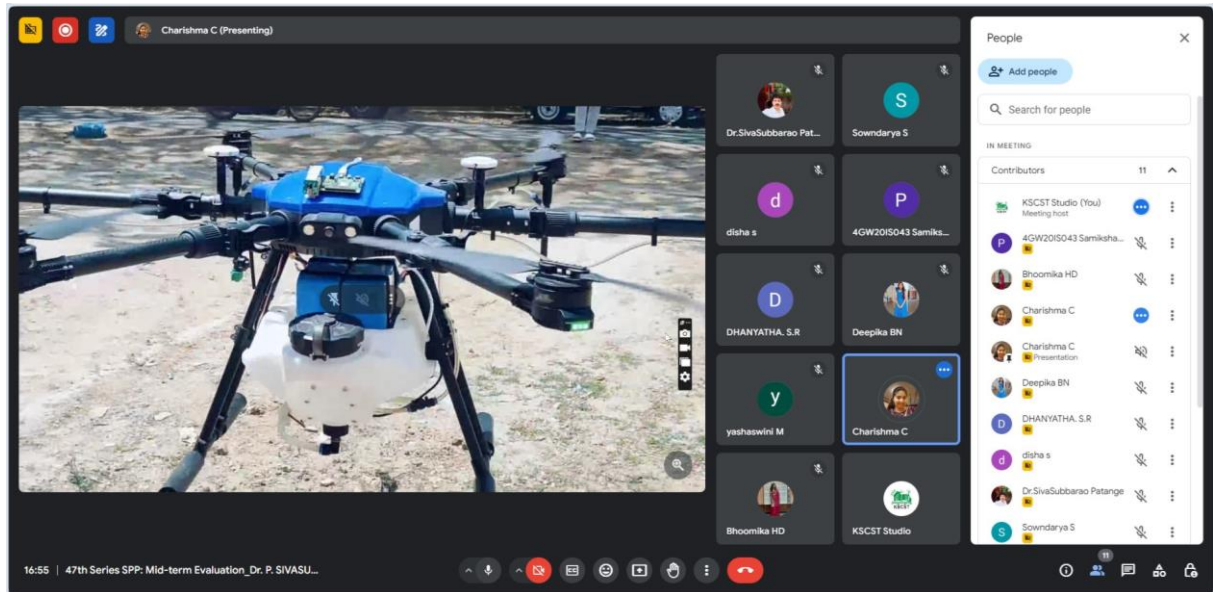
The projects selected for the State-level poster presentation and exhibition include 30 projects supported by ART-Park, IISc. Among these, 8 projects are designated for Poster presentation, while 22 projects are for the Exhibit project.

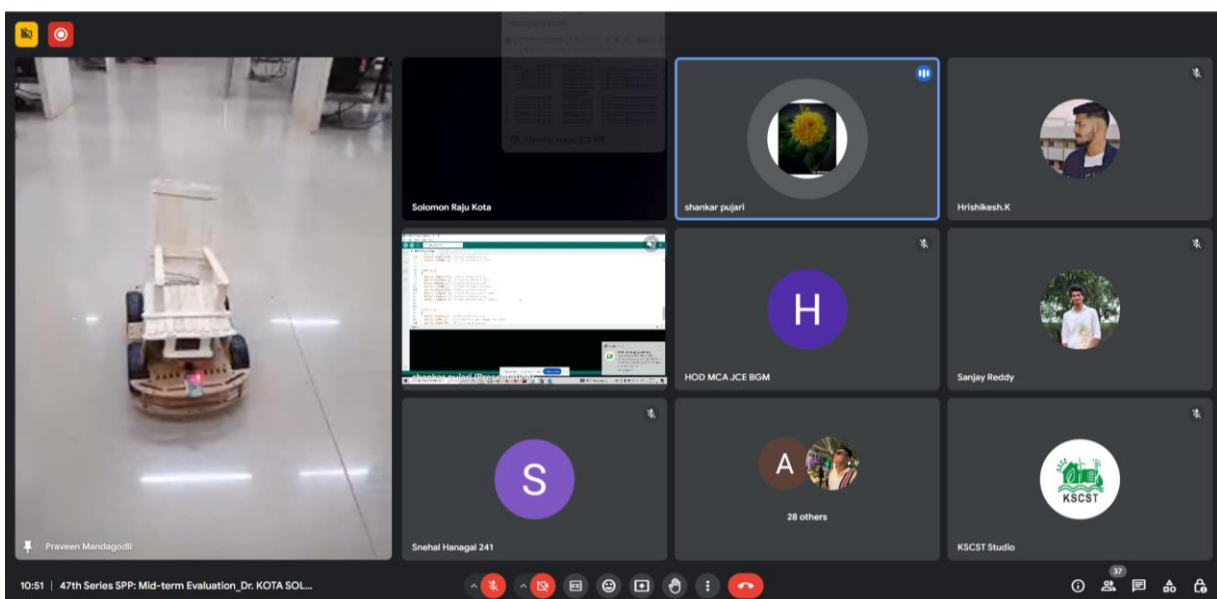
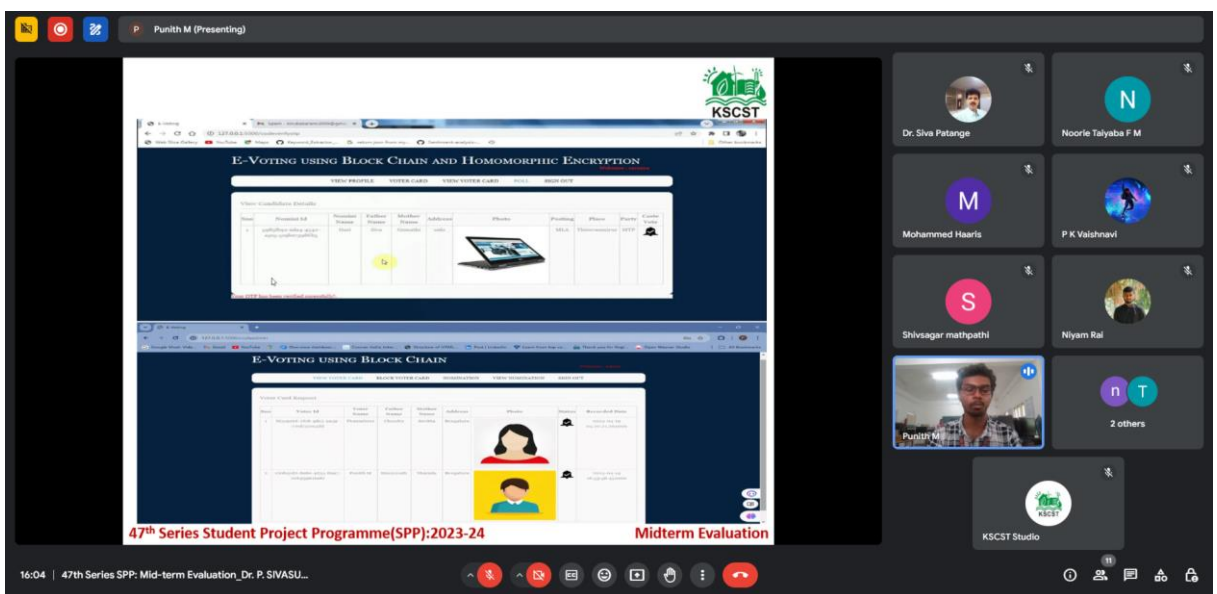
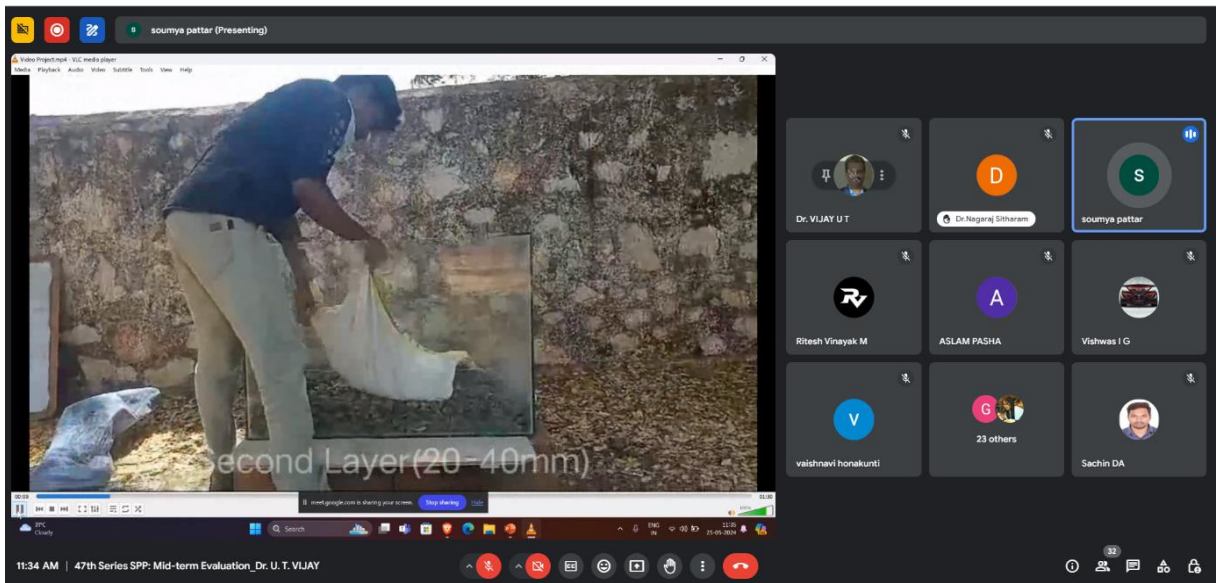
Additionally, for the State-Level Poster Presentation and Exhibition, 15 projects are supported by KSBDB, GoK. Out of these, 10 projects are allocated for Poster presentation, and 5 projects are for the Exhibit project.

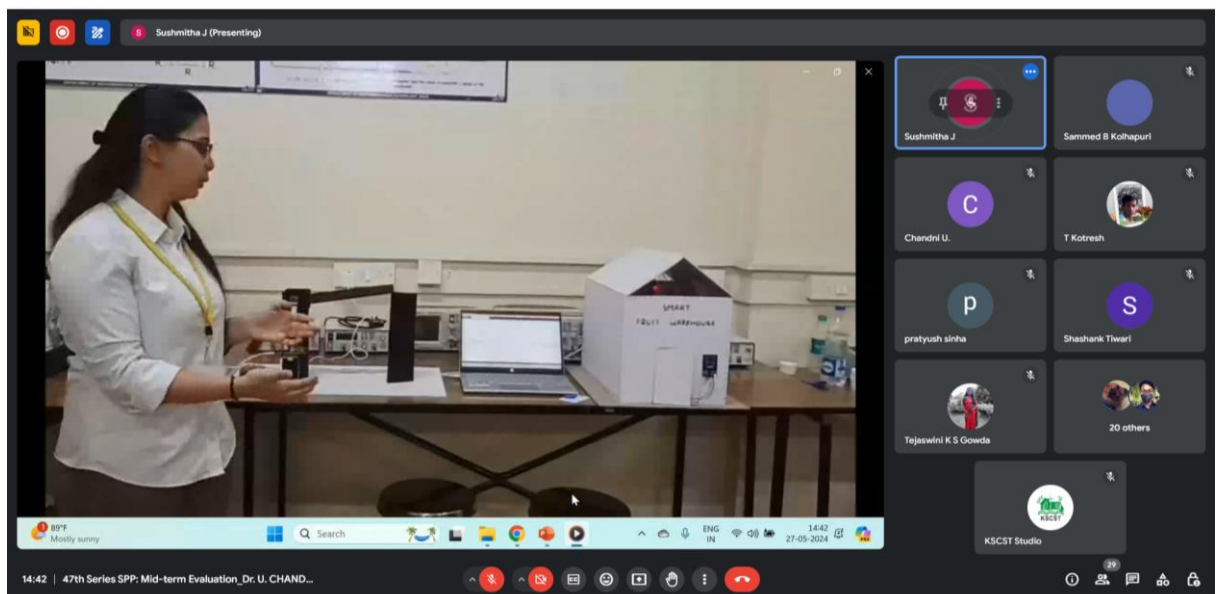
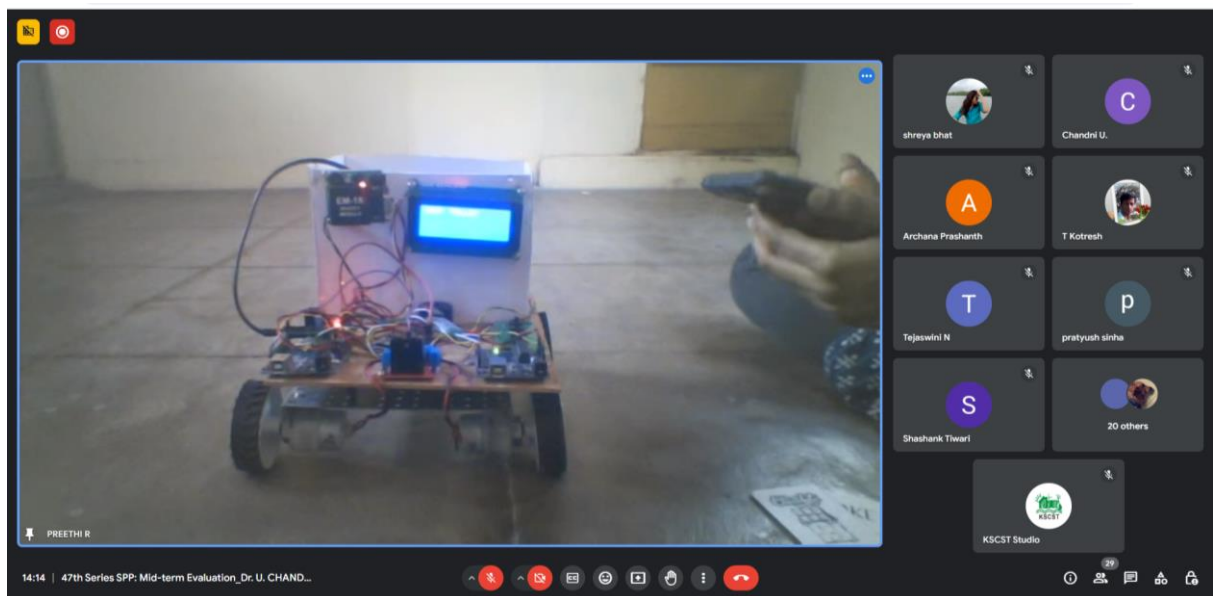
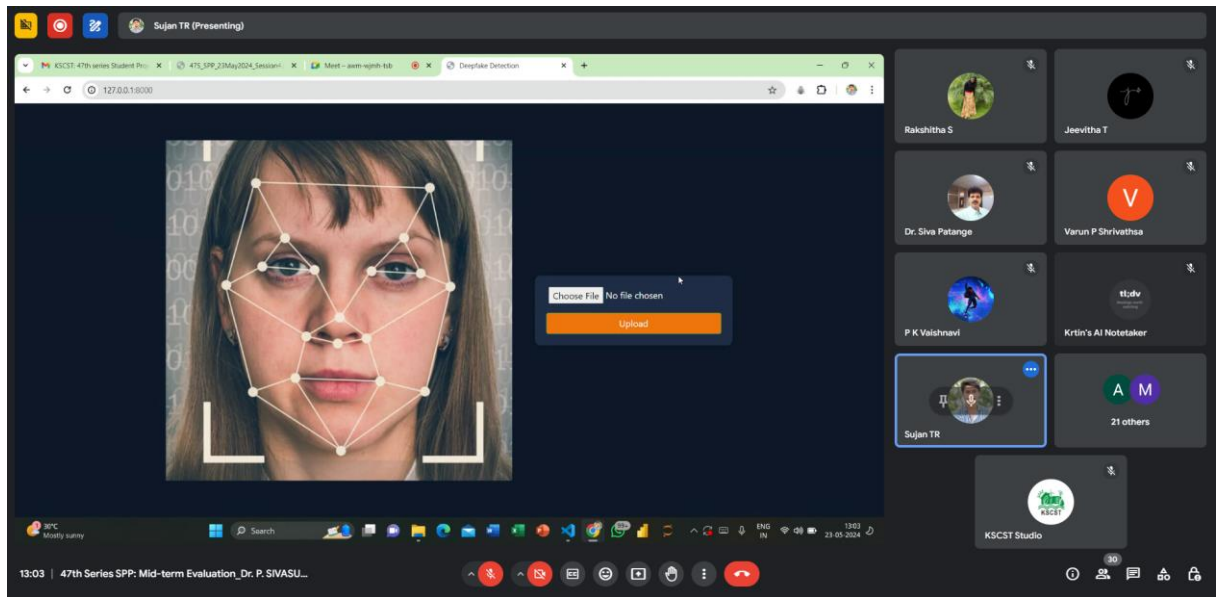
KSCST will be organizing Annual State-Level Poster Presentation and Exhibition of projects at Sharnbasva University, Kalaburagi on 9-10 August 2024.

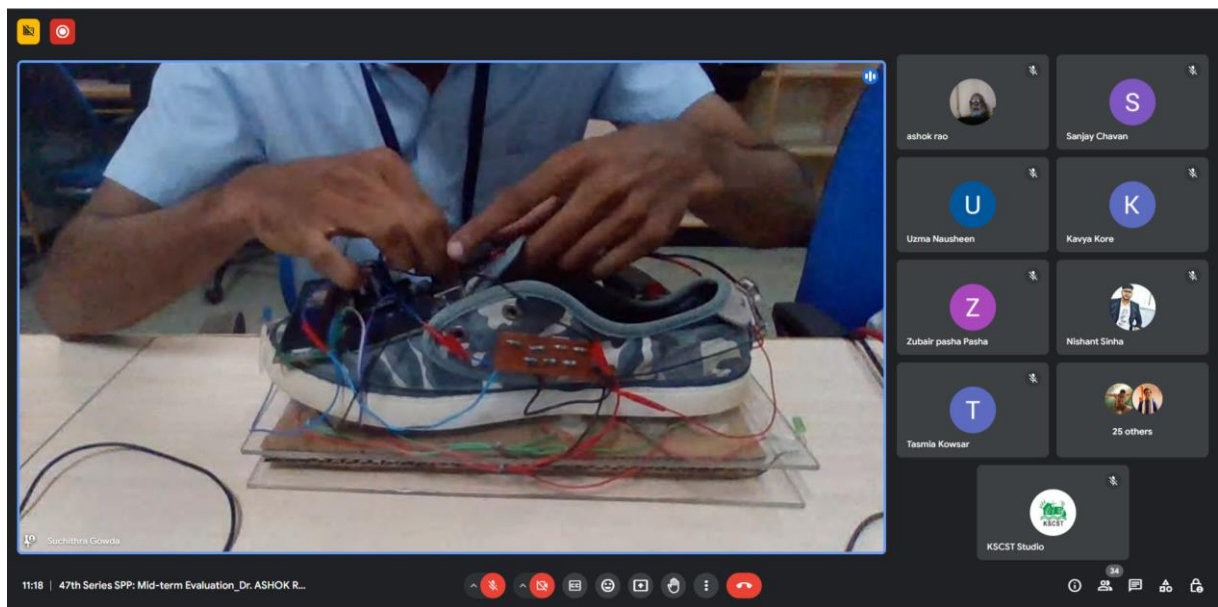
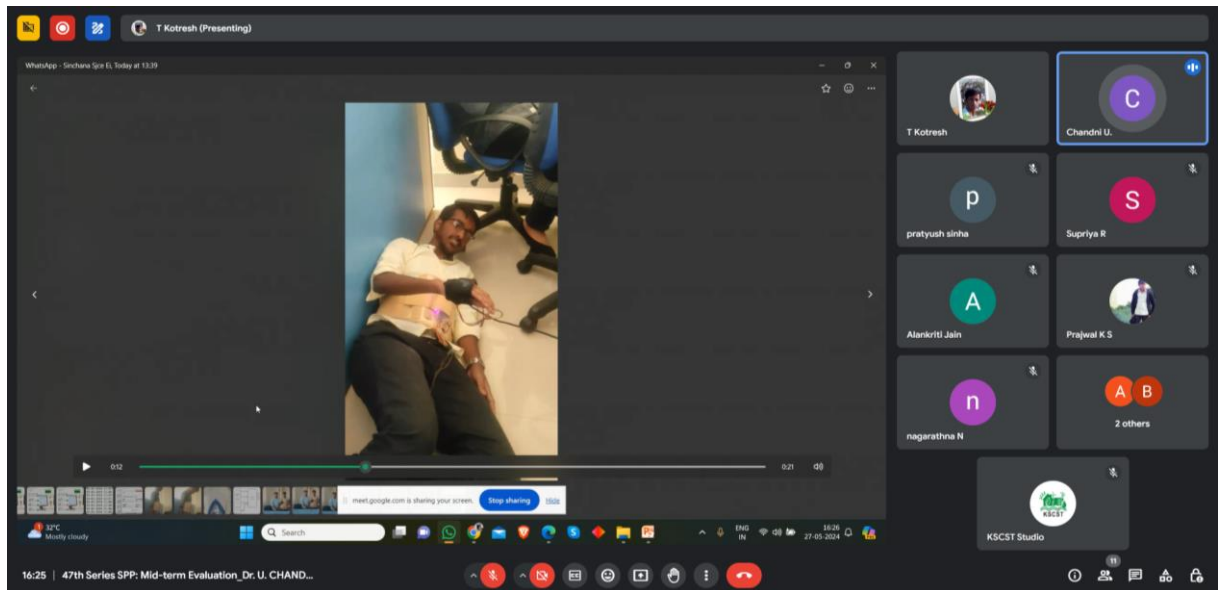
Glimpses of midterm evaluation conducted online

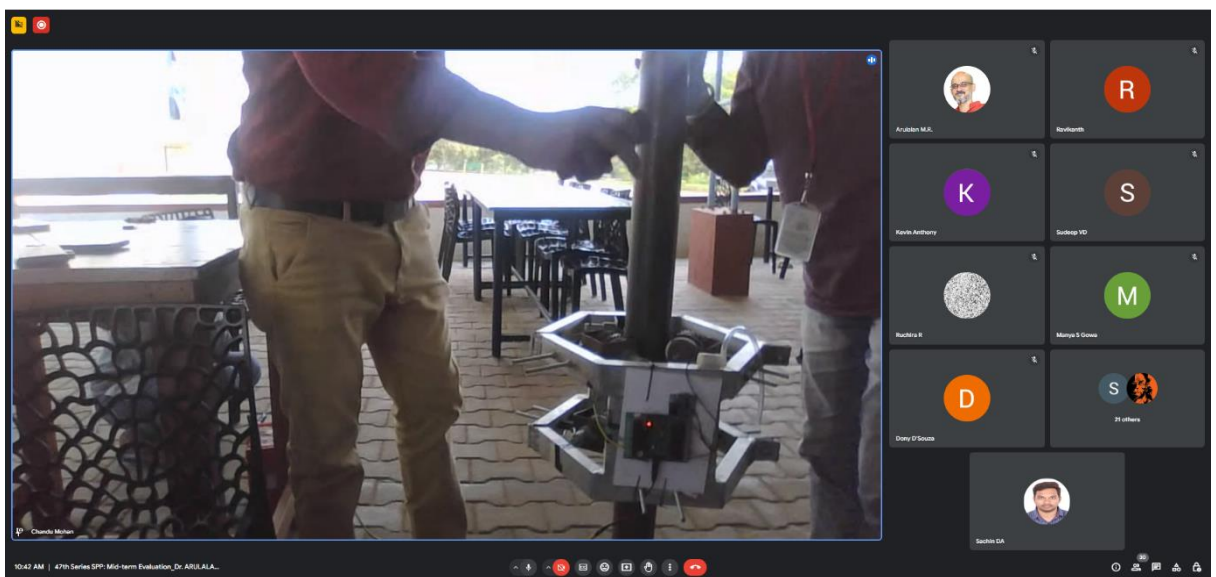
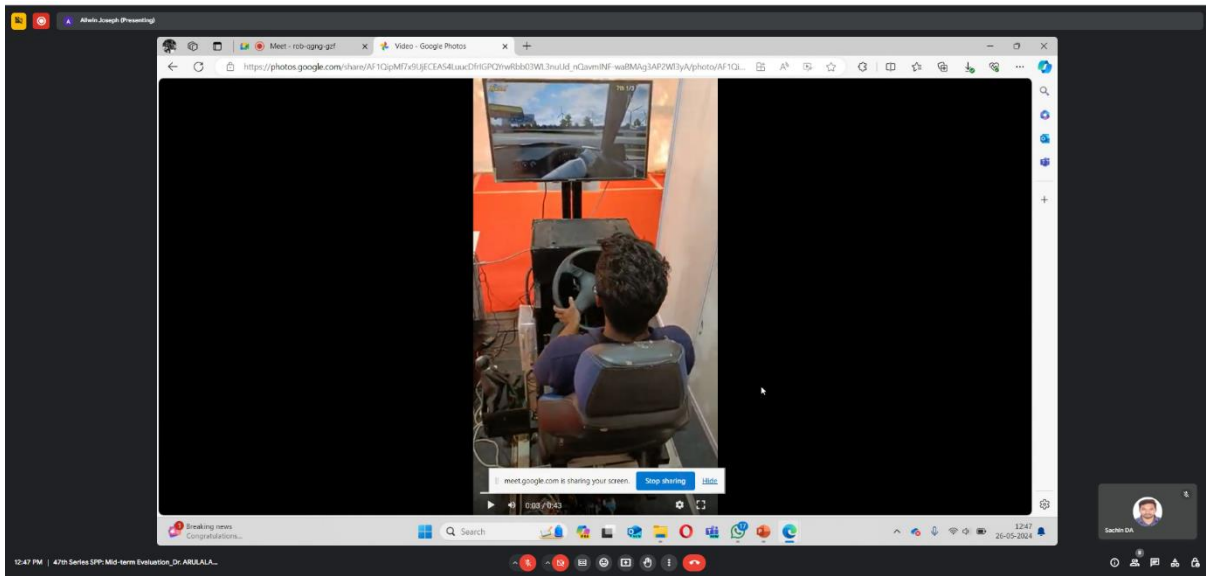












47th series of Student Project Programme (SPP): 2023-24

**State-Level Projects Poster presentation and Exhibition to be held at Sharnbasva University,
Kalaburagi on 9-10 August 2024**

College Wise List of projects selected for Poster presentation and Exhibition projects

Name of the Institution	Total Projects Approved	Projects Selected for Poster Presentation (A)	Projects Selected for Exhibit project (B)	Total No. of projects Selected for Poster and Exhibition (A+B)
1. A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY, MANGALURU	7	1	-	1
2. A.M.C. ENGINEERING COLLEGE, BENGALURU	6	-	1	1
3. A.P.S. COLLEGE OF ENGINEERING, BENGALURU	5	-	2	2
4. A.T.M.E. COLLEGE OF ENGINEERING, MYSURU	8	1	2	3
5. ACHARYA INSTITUTE OF TECHNOLOGY, BENGALURU	10	-	1	1
6. ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU	9	1	2	3
7. AKSHAYA INSTITUTE OF TECHNOLOGY, TUMAKURU	5	1	-	1
8. ALLIANCE COLLEGE OF ENGINEERING AND DESIGN, ALLIANCE UNIVERSITY, BENGALURU	3	1	-	1
9. ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, MOODBIDRI	22	1	1	2
10. AMRITA VISHWA VIDYAPEETHAM BENGALURU CAMPUS, BENGALURU	5	-	3	3
11. ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BELAGAAVI	8	1	2	3
12. ANJUMAN INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BHATKAL	2	1	-	1
13. ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU	16	2	2	4
14. B.G.S. INSTITUTE OF TECHNOLOGY, MANDYA	18	-	1+1	2
15. B.L.D.E.A'S V.P. DR. P.G.HALAKATTI COLLEGE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA	14	1	5	6
16. B.M.S. COLLEGE OF ENGINEERING, BULL TEMPLE ROAD, BENGALURU	12	1	2	3
17. B.M.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, YELAHANKA, BENGALURU	9	1	-	1
18. B.N.M. INSTITUTE OF TECHNOLOGY, BENGALURU	2	-	2	2
19. B.V.V. SANGHA'S BASAVESHWAR ENGINEERING COLLEGE, BAGALKOT	11	2	3	5
20. B.V.V.S BILURUR GURUBASAVA MAHASWAMIJI INSTITUTE OF TECHNOLOGY, MUDHOL	9	1	1	2
21. BALLARI INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BALLARI	9	1	1	2
22. BANGALORE INSTITUTE OF TECHNOLOGY, BENGALURU	27	3	3	6
23. BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DAVANAGERE	14	3	2	5
24. BASAVAKALYAN ENGINEERING COLLEGE, BASAVAKALYANA	2	-	1	1
25. BEARYS INSTITUTE OF TECHNOLOGY, MANGALURU	7	-	1	1
26. BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU	4	-	1	1
27. C.M.R. INSTITUTE OF TECHNOLOGY, BENGALURU	5	-	1	1

28.	CAMBRIDGE INSTITUTE OF TECHNOLOGY, BENGALURU	8	-	1	1
29.	CANARA ENGINEERING COLLEGE, MANGALURU	12	2	2	4
30.	CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY, TUMAKURU	11	3	1	4
31.	CHRIST DEEMED TO BE UNIVERSITY, KENGERI CAMPUS, BENGALURU	5	-	2	2
32.	CITY ENGINEERING COLLEGE, BENGALURU	4	-	2	2
33.	COLLEGE OF HORTICULTURE BENGALURU	1	1	-	1
34.	COORG INSTITUTE OF TECHNOLOGY, KODAGU	5	-	1	1
35.	DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT, BENGALURU	18	-	1+4	5
36.	DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU	55	5	9	14
37.	DAYANANDA SAGAR UNIVERSITY, BENGALURU	13	1	1	2
38.	DON BOSCO INSTITUTE OF TECHNOLOGY, BENGALURU	18	1	2	3
39.	Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, BENGALURU	9	-	1	1
40.	EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU	7	2	1	3
41.	EAST WEST INSTITUTE OF TECHNOLOGY, BENGALURU	16	-	2	2
42.	G. MADEGOWDA INSTITUTE OF TECHNOLOGY, MADDUR	6	1	1	2
43.	G.M. INSTITUTE OF TECHNOLOGY, DAVANAGERE	20	3	1+1	5
44.	G.S.S.S. INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN, MYSURU	10	2	-	2
45.	GARDEN CITY UNIVERSITY, BENGALURU	13	2+2	-	4
46.	GLOBAL ACADEMY OF TECHNOLOGY, BENGALURU	19	-	1+1	2
47.	GOPALAN COLLEGE OF ENGINEERING AND MANAGEMENT, BENGALURU	5	1	3	4
48.	GOVERNMENT ENGINEERING COLLEGE, DODDAMANNUGUDDE, RAMANAGARA	1	-	1	1
49.	GOVERNMENT ENGINEERING COLLEGE, MOSALEHOSAHALLI, HASSAN	2	-	1	1
50.	GURU NANAK DEV ENGINEERING COLLEGE, BIDAR	15	-	1+1	2
51.	H.K.B.K. COLLEGE OF ENGINEERING, BENGALURU	12	1	-	1
52.	H.K.E SOCIETY'S SIR M. VISVESVARAYA COLLEGE OF ENGINEERING, RAICHUR	4	-	2	2
53.	HIRASUGAR INSTITUTE OF TECHNOLOGY, BELAGAAVI	12	1	1+1	3
54.	J.S.S ACADEMY OF HIGHER EDUCATION AND RESEARCH, MYSURU	1	1	-	1
55.	J.S.S. ACADEMY OF TECHNICAL EDUCATION, BENGALURU	17	1+2	1	4
56.	J.S.S. SCIENCE AND TECHNOLOGY UNIVERSITY, MYSURU	10	2	-	2
57.	JAIN (DEEMED - TO - BE UNIVERSITY), SCHOOL OF SCIENCES, J.C ROAD, BENGALURU	3	1	-	1
58.	JAIN COLLEGE OF ENGINEERING AND RESEARCH, BELAGAAVI	3	1	1	2
59.	JAIN COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD	14	2	1	3
60.	JAIN COLLEGE OF ENGINEERING, BELAGAAVI	17	2	1	3
61.	JAIN DEEMED TO BE UNIVERSITY FACULTY OF ENGINEERING AND TECHNOLOGY, RAMANAGARA	3	-	1	1

62.	JAIN INSTITUTE OF TECHNOLOGY, DAVANAGERE	12	1	-	1
63.	JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIVAMOGGA	13	1+2	-	3
64.	JYOTHY INSTITUTE OF TECHNOLOGY, BENGALURU	23	3	1	4
65.	K.L.E SOCIETY's K.L.E. COLLEGE OF ENGINEERING AND TECHNOLOGY, CHIKODI	15	1	1	2
66.	K.L.E. Dr. M. S. SHESHGIRI COLLEGE OF ENGINEERING AND TECHNOLOGY, BELAGAVI	10	1	-	1
67.	K.L.E. INSTITUTE OF TECHNOLOGY, HUBBALLI	17	2	2	4
68.	K.L.E. SOCIETY's BASAVAPRABHU KORE ARTS SCIENCE AND COMMERCE COLLEGE, CHIKODI	1	1	-	1
69.	K.L.E. SOCIETY's S. NIJALINGAPPA COLLEGE RAJAJINAGAR, BENGALURU	4	-	1	1
70.	K.L.E. TECHNOLOGICAL UNIVERSITY, HUBBALLI	1	1	-	1
71.	K.L.S. GOGTE INSTITUTE OF TECHNOLOGY, UDYAMBAG, BELAGAAVI	12	1	2	3
72.	K.L.S. VISHWANATHRAO DESHPANDE INSTITUTE OF TECHNOLOGY, HALIYAL, UTTARA KANNADA	5	-	1	1
73.	K.S. INSTITUTE OF TECHNOLOGY, BENGALURU	8	-	2	2
74.	K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU	9	1	-	1
75.	K.V.G. COLLEGE OF ENGINEERING, SULLIA, DAKSHINA KANNADA	3	-	1	1
76.	KALPATARU INSTITUTE OF TECHNOLOGY, TIPTUR	2	1	-	1
77.	KARNATAK UNIVERSITY, DHARWAD	2	2	-	2
78.	KRISTU JAYANTI COLLEGE, AUTONOMOUS, KOTHANUR PO, BENGALURU	4	1	-	1
79.	M.S RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE, BENGALURU	7	2	-	2
80.	M.S. RAMAIAH UNIVERSITY OF APPLIED SCIENCES, BENGALURU	15	3	1	4
81.	M.V.J. COLLEGE OF ENGINEERING, BENGALURU	11	-	4	4
82.	MAHARAJA INSTITUTE OF TECHNOLOGY, MYSURU	6	-	1	1
83.	MAHARAJA INSTITUTE OF TECHNOLOGY, NANJANGUD TALUK, THANDAVAPURA	8	1	1	2
84.	MALNAD COLLEGE OF ENGINEERING, HASSAN	6	1	-	1
85.	MANGALORE INSTITUTE OF TECHNOLOGY AND ENGINEERING, MOODBIDRI	24	5	4	9
86.	MANIPAL INSTITUTE OF TECHNOLOGY, MAHE, MANIPAL	1	1	-	1
87.	MOUNT CARMEL COLLEGE AUTONOMOUS, BENGALURU	1	1	-	1
88.	N.I.E. INSTITUTE OF TECHNOLOGY, MYSURU	5	-	2	2
89.	N.M.A.M. INSTITUTE OF TECHNOLOGY, NITTE	11	1	2	3
90.	N.M.K.R.V COLLEGE FOR WOMEN, BENGALURU	4	-	1	1
91.	NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU	10	1	2	3
92.	NAVKIS COLLEGE OF ENGINEERING, HASSAN	6	-	2	2
93.	NEW HORIZON COLLEGE OF ENGINEERING, BENGALURU	51	3	6	9
94.	NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY, BENGALURU	15	2	1	3
95.	P.D.A. COLLEGE OF ENGINEERING, KALABURAGI	15	2	1	3
96.	P.E.S. COLLEGE OF ENGINEERING, MANDYA	4	2	-	2

97.	P.E.S. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIVAMOGGA	18	1	1	2
98.	P.E.S. UNIVERSITY, BENGALURU	1	1	-	1
99.	PADMASHREE INSTITUTE OF MANAGEMENT AND SCIENCES, BENGALURU	7	3	-	3
100.	PRESIDENCY UNIVERSITY, BENGALURU	2	1	-	1
101.	PROUDHADEVARAYA INSTITUTE OF TECHNOLOGY, HOSPETE, BALLARI	1	-	1	1
102.	R.N.S. INSTITUTE OF TECHNOLOGY, BENGALURU	6	-	3	3
103.	R.R. INSTITUTE OF TECHNOLOGY, BENGALURU	10	1	2	3
104.	R.V. COLLEGE OF ENGINEERING, BENGALURU	8	2	-	2
105.	R.V. INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BENGALURU	7	-	2	2
106.	RAJEEV INSTITUTE OF TECHNOLOGY, HASSAN	8	1	-	1
107.	RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU	13	4	1+1	6
108.	REVA UNIVERSITY, BENGALURU	62	1+1	1+9	12
109.	S.D.M. COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD	14	1	3	4
110.	S.D.M. INSTITUTE OF TECHNOLOGY, UJIRE	2	1	-	1
111.	S.E.A. COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU	4	2	-	2
112.	S.G. BALEKUNDRI INSTITUTE OF TECHNOLOGY, BELAGAAVI	12	1	1+2	4
113.	S.J.B. INSTITUTE OF TECHNOLOGY, BENGALURU	10		1	1
114.	S.J.C. INSTITUTE OF TECHNOLOGY, CHIKKABALLAPURA	24	1	4	5
115.	S.J.M. INSTITUTE OF TECHNOLOGY, CHITRADURGA	4		1	1
116.	SAHYADRI COLLEGE OF ENGINEERING AND MANAGEMENT, MANGALURU	25	1	5	6
117.	SAI VIDYA INSTITUTE OF TECHNOLOGY, BENGALURU	6	-	4	4
118.	SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU	7	2	1	3
119.	SECAB INSTITUTE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA	3	2	-	2
120.	SHARNBASVA UNIVERSITY, KALABURAGI	9	-	2	2
121.	SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, UDUPI	4	-	3	3
122.	SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU	11	-	2	2
123.	SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU	9	1	1	2
124.	SMT. KAMALA AND SRI VENKAPPA M. AGADI COLLEGE OF ENGINEERING AND TECHNOLOGY, GADAG	8	1	-	1
125.	SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU	5	-	1+1	2
126.	SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU	14	1	2	3
127.	SRI VENKATESHWARA COLLEGE OF ENGINEERING, BENGALURU	8	1	-	1
128.	ST. ALOYSIUS (DEEMED TO BE UNIVERSITY), MANGALURU	4	1	-	1
129.	ST. JOSEPH ENGINEERING COLLEGE, MANGALURU	13	2	1	3
130.	ST. JOSEPHS UNIVERSITY, BENGALURU	3	1	-	1
131.	T. JOHN INSTITUTE OF TECHNOLOGY, BENGALURU	1	1	-	1
132.	THE NATIONAL INSTITUTE OF ENGINEERING, MYSURU	10	3	1	4

133. THE OXFORD COLLEGE OF ENGINEERING, BENGALURU	10	-	1+2	3
134. UNIVERSITY VISVESVARAYA COLLEGE OF ENGINEERING, BENGALURU	1	-	1	1
135. V.S.M'S SOMASHEKHAR R. KOTHIWALE INSTITUTE OF TECHNOLOGY, NIPPANI, BELAGAAVI	4	-	1	1
136. VEMANA INSTITUTE OF TECHNOLOGY, BENGALURU	5	-	1	1
137. VIDYA VIKAS INSTITUTE OF ENGINEERING AND TECHNOLOGY, MYSURU	9	2	1	3
138. VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU	19	3	2	5
139. VIJAYANAGARA SRI KRISHNADEVARAYA UNIVERSITY, BALLARI	1	1	-	1
140. VISVESVARAYA TECHNOLOGICAL UNIVERSITY, DEPARTMENT OF P.G. STUDIES, BELAGAAVI	1	-	1	1
141. VIVEKANANDA COLLEGE OF ENGINEERING AND TECHNOLOGY, PUTTUR, DAKSHINA KANNADA	12	1	1	2
142. YENEPOYA INSTITUTE OF TECHNOLOGY, MOODBIDRI, MANGALURU	11	-	1+1	2
Grand Total	1385	153	201	354

Note: The projects highlighted in grey indicate the selected projects for Poster / Exhibition projects supported by ART-Park, IISc.

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru – 560 012
Website: www.kscst.org.in || Email: spp@kscst.org.in || Tel: 080-2334 1652,2334 8848/49/40

47th series of Student Project Programme (SPP): 2023-24

State Level Seminar and Exhibition to be held at
Sharnbasva University, Kalaburagi on 9-10 August 2024

Branch-Wise List of projects selected for Poster presentation and Exhibition projects

Branch of Engineering / Science	Total Approved Proposals	Projects Selected for Poster Presentation	Projects Selected for Exhibit project	ART-PARK Sponsored Project selected for Poster Presentation	ART-PARK Sponsored Project selected for Exhibit project
1. AERONAUTICAL ENGINEERING	33	4	4	-	-
2. ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	5	-	1	-	-
3. ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	53	4	8	-	-
4. AUTOMOBILE ENGINEERING	7	-	1	-	-
5. BIOCHEMISTRY	10	4	-	-	-
6. BIOTECHNOLOGY	44	8	2	1	-
7. BOTANY	2	1	-	-	-
8. CHEMICAL ENGINEERING	9	2	-	-	-
9. CHEMISTRY	21	2	-	-	-
10. CIVIL ENGINEERING	157	24	7	-	-
11. COMPUTER AIDED DESIGN OF STRUCTURES	1	1	-	-	-
12. COMPUTER APPLICATIONS	32	9	2	1	-
13. COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE ENGINEERING	1	-	1	-	1
14. COMPUTER SCIENCE AND ENGINEERING	332	35	55	3	12
15. DATA SCIENCE	9	1	3	1	-
16. DIGITAL COMMUNICATION AND NETWORKING	2	-	1	-	-
17. ELECTRICAL AND ELECTRONICS ENGINEERING	85	4	14	-	-
18. ELECTRONICS AND COMMUNICATION ENGINEERING	255	13	48	1	4
19. ELECTRONICS AND COMPUTER ENGINEERING	5	-	1	-	-
20. ELECTRONICS AND INSTRUMENTATION ENGINEERING	14	1	2	-	-
21. ELECTRONICS AND TELECOMMUNICATION ENGINEERING	12	-	2	-	-
22. ENVIRONMENTAL ENGINEERING	4	1	-	-	-
23. ENVIRONMENTAL SCIENCE	1	1	-	-	-
24. FINANCE AND HUMAN RESOURCE	2	2	-	-	-

25. FOOD SCIENCE AND TECHNOLOGY	2	1	-	-	-
26. INFORMATION SCIENCE AND ENGINEERING	142	7	14	1	2
27. LIFE SCIENCE	4	1	-	-	-
28. MARKETING	2	1	-	-	-
29. MBA	52	6	-	-	-
30. MECHANICAL ENGINEERING	139	5	28	-	2
31. MECHATRONICS ENGINEERING	4	-	1	-	-
32. MEDICAL ELECTRONICS	5	1	-	-	-
33. MICROBIOLOGY	9	3	-	-	-
34. MINERAL PROCESSING	1	1	-	-	-
35. ORGANIC CHEMISTRY	5	1	-	-	-
36. PHARMA BUSINESS MANAGEMENT	1	1	-	-	-
37. PHARMACY	2	1	-	-	-
38. PLANT PATHOLOGY	1	1	-	-	-
39. POLYMER SCIENCE AND TECHNOLOGY	1	1	-	-	-
40. ROBOTICS AND AUTOMATION	4	-	4	-	1
41. SOFTWARE TECHNOLOGY	2	1	-	-	-
42. STRUCTURAL ENGINEERING	10	4	-	-	-
43. TELECOMMUNICATION ENGINEERING	1	-	1	-	-
44. ZOOLOGY	1	-	1	-	-
Grand Total	1484	153	201	8	22

47th series of Student Project Programme (SPP): 2023-24

State-Level Projects Poster presentation and Exhibition to be held at Sharnbasva University, Kalaburagi on 9-10 August 2024

KSBDB, GoK Supported projects – Branch-Wise List of projects selected for Poster presentation and Exhibition projects

Sl. No.	Course	Selected Poster presentation	Selected Exhibition
1.	BE	02	05
2.	M.Tech	01	-
3.	M.Sc.	04	-
4.	MBA / MCA	03	-
Total		15	

47th series of Student Project Programme (SPP): 2023-24

**State-Level Projects Poster presentation and Exhibition to be held at Sharnbasva University,
Kalaburagi on 9-10 August 2024**

ART-Park Supported projects - College Wise List of projects selected for Poster presentation and Exhibition projects

Name of the Institution	ART-PARK Sponsored Project selected for Poster Presentation	ART-PARK Sponsored Project selected for Exhibit project	Total No. of Projects Selected for Poster / Exhibit
1. A.J. INSTITUTE OF ENGINEERING AND TECHNOLOGY, MANGALURU	1	-	1
2. AMRITA VISHWA VIDYAPEETHAM BENGALURU CAMPUS, BENGALURU	-	3	3
3. B.G.S. INSTITUTE OF TECHNOLOGY, MANDYA	-	1	1
4. B.L.D.E.A'S V.P. DR. P.G.HALAKATTI COLLEGE OF ENGINEERING AND TECHNOLOGY, VIJAYAPURA	1	-	1
5. BASAVAKALYAN ENGINEERING COLLEGE, BASAVAKALYANA	-	1	1
6. BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU	-	1	1
7. DAYANANDA SAGAR COLLEGE OF ENGINEERING, BENGALURU	-	1	1
8. G.M. INSTITUTE OF TECHNOLOGY, DAVANAGERE	-	1	1
9. GARDEN CITY UNIVERSITY, BENGALURU	2	-	2
10. GLOBAL ACADEMY OF TECHNOLOGY, BENGALURU	-	1	1
11. GOVERNMENT ENGINEERING COLLEGE, DODDAMANNUGUDDE, RAMANAGARA	-	1	1
12. GURU NANAK DEV ENGINEERING COLLEGE, BIDAR	-	1	1
13. H.K.B.K. COLLEGE OF ENGINEERING, BENGALURU	1	-	1
14. HIRASUGAR INSTITUTE OF TECHNOLOGY, BELAGAAVI	-	1	1
15. J.S.S. ACADEMY OF TECHNICAL EDUCATION, BENGALURU	1	-	1
16. JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIVAMOGGA	1	-	1
17. M.S. RAMAIAH UNIVERSITY OF APPLIED SCIENCES, BENGALURU	-	1	1
18. RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU	-	1	1
19. REVA UNIVERSITY, BENGALURU	1	1	2
20. S.G. BALEKUNDRI INSTITUTE OF TECHNOLOGY, BELAGAAVI	-	1	1
21. S.J.B. INSTITUTE OF TECHNOLOGY, BENGALURU	-	1	1
22. S.J.M. INSTITUTE OF TECHNOLOGY, CHITRADURGA	-	1	1
23. SRI SAIRAM COLLEGE OF ENGINEERING, BENGALURU	-	1	1
24. THE OXFORD COLLEGE OF ENGINEERING, BENGALURU	-	1	1
25. VIDYA VIKAS INSTITUTE OF ENGINEERING AND TECHNOLOGY, MYSURU	-	1	1
26. YENEPOYA INSTITUTE OF TECHNOLOGY, MOODBIDRI, MANGALURU	-	1	1
Grand Total	8	22	30

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47th series of Student Project Programme (SPP): 2023-24

State Level Seminar and Exhibition to be held at
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Branch-Wise List of ART-Park, IISc supported projects selected for Poster presentation and Exhibition projects

BRANCH OF ENGINEERING / SCIENCE	PROJECTS SPONSORED BY ART PARK, IISc	ART-PARK Sponsored Project selected for Poster Presentation	ART-PARK Sponsored Project selected for Exhibit project
1. ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	5	-	-
2. BIG DATA ANALYTICS	1	-	-
3. BIOTECHNOLOGY	1	1	-
4. COMPUTER APPLICATIONS	4	1	-
5. COMPUTER NETWORKING	1	-	-
6. COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE ENGINEERING	1	-	1
7. COMPUTER SCIENCE AND ENGINEERING	44	3	12
8. DATA SCIENCE	1	1	-
9. ELECTRICAL AND ELECTRONICS ENGINEERING	3	-	-
10. ELECTRONICS AND COMMUNICATION ENGINEERING	30	1	4
11. ELECTRONICS AND COMPUTER ENGINEERING	1	-	-
12. ELECTRONICS AND INSTRUMENTATION ENGINEERING	5	-	-
13. ELECTRONICS AND TELECOMMUNICATION ENGINEERING	1	-	-
14. INFORMATION SCIENCE AND ENGINEERING	18	1	2
15. MECHANICAL ENGINEERING	5	-	2
16. MEDICAL ELECTRONICS	1	-	-
17. ROBOTICS AND AUTOMATION	1	-	1
18. VLSI DESIGN AND EMBEDDED SYSTEMS	1	-	-
Grand Total	124	8	22



Dept., of Science & Technology, Govt. of Karnataka

Dept., of Science & Technology, Govt. of India

ಕರ್ನಾಟಕ ರಾಜ್ಯ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಮಂಡಳಿ KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

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STUDENT PROJECT PROGRAMME (SPP - 47th SERIES: 2023 – 2024)

KSCST invites project proposals from the final year BE, B. Arch., M.Tech., M.Sc., M.Tech., / M.Sc. (Agriculture), MBA & MCA students for sponsorship, under the 47th series of Student Project Programme (SPP).

The project proposals has to be submitted through Google Form from 1st December 2023 to 20th February 2024

SPP
47th SERIES
2023 – 2024



The submitted projects shall mandatorily be from one of the broad indicative themes / areas as below:

- Structural Engineering, Geotechnical Engineering, Geomatics, Construction Technology and Management
- Water and Environment Engineering, Transportation Engineering, Industrial and System Engineering
- Energy Engineering, Energy for Sustainable Development, Waste Management
- Data Science, Cyber Security, Computing, Pattern Recognition and Image Processing, Signal Processing
- Big Data, integrating Internet of Things, Artificial Intelligence and Data Engineering (agriculture, health, education, digital literacy)
- Networking and Communication Engineering, Embedded Systems, VLSI Design, Robotics
- Power System Engineering, Electric Vehicles, Smart Grid Technologies and Micro-grids
- Materials and Design Engineering, Thermal and Fluid Engineering, Manufacturing Processes and Analysis
- Control and Automation, Biomedical Engineering, Sensors and Measurement Techniques
- Rural Engineering and Technical support, Smart cities and infrastructure development
- Biological / Medical Science, Physical Science, Chemical Science, Agriculture Science, Biotechnology
- Healthcare management, Information Technology, Resources and Environmental Management.



Final year students of
B.E., B. Arch,
M.Tech, M.Sc.,
M.Tech / M.Sc.
(Agriculture),
MBA and MCA

How to apply

- The Project Proposals shall be prepared as per the SPP proposal format available in KSCST website.
- Each institution can submit maximum of only 20 proposals from each branch.
- The concerned faculty shall initially scrutinize the project proposals, conduct in-house evaluation of projects and then submit the best project proposals for support.
- The team members are advised to carry out literature review and prior-art-search before submitting the project proposal to check the novelty of the project.
- The project team shall have a maximum of 4 students and each project team shall submit only one proposal as per the themes indicated above. Any other project proposals will not be considered and are liable for rejection.
- The team leader of the project needs to mandatorily fill the Google Form (Link: <https://forms.gle/mE8Q4pM2nwZQuHbi9>)
- Please go through the "instructions for submission of project proposal" published in the website.
- The processing fee of Rs. 1,000/- (Rupees One Thousand only, inclusive of GST) to be paid through NEFT transfer / UPI Payment only (Bank details of KSCST is in the project proposal format, available in Website).
- The processing fees paid for the project proposal is non-refundable / non-transferable.
- The proposal accepted only through Google form with the following attachments.
(Students / institutions shall not send the hardcopy of the project proposals to KSCST)
 - a. Pdf of project proposal with attestation from Project guide / head of the department and institution
 - b. Scanned copy of Declaration and Endorsement from Head of the Institution
 - c. Copy of Processing fee details
- The Details of SPP Co-ordinator is mandatory for the submission of the proposal.
- The last date for submission of project proposal will not be extended and is as per the schedule.

Evaluation Process:



- The submitted projects will be evaluated by experts and then short-listed for sponsorship. The sponsored amount for the project will be sent to the principal of respective institutions by NEFT.
- The sponsored projects will be evaluated by an expert committee, either offline / online and then shortlisted for final state-level seminar and exhibition.
- The shortlisted projects after mid-term evaluation will be called for State level seminar / exhibition followed by evaluation for the coveted "Best Project of the Year Award".

DATES TO REMEMBER



Last date for Submission of Proposals via Google Form	20 th February 2024, 5.30 PM
Announcement of Selected Projects for Sponsorship	March / April 2024
Midterm Evaluation of Sponsored Projects (Online Mode)	May – June 2024
Synopsis & Final Project Report submission through Google Form	May – June 2024
Seminar and Exhibition of Selected Projects	July / August 2024

THIS PROGRAMME IS SUPPORTED BY: Department of Science and Technology, Government of India and Department of Science and Technology, Government of Karnataka

Representation of statistics of 47th series Student Project Programme

47th series of Student Project Programme (SPP): 2023-24

