



SPSS 2014-15 REPORT

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1. PREAMBLE

Motivated by the desire to build a strong base for practical problem solving and hands on skills amongst the students, the Chairman of Sahyadri College of Engineering & Management, Dr. Manjunath Bhandary initiated the Sahyadri Project Support Scheme (SPSS). Through this scheme, the department of Projects and Funding provides financial and academic support for engineering student projects.

The SPSS scheme is the novel paradigm and first of its kind amongst technological universities in India created by Sahyadri College of Engineering & Management. While most of the engineering projects in the engineering colleges and universities are generally conducted as academic final year projects or club projects, SPSS is quite different wherein students execute non-academic engineering projects for the sake of engineering and not obtaining academic scores.

“SPSS Project scheme is an initiative to create interaction amongst the students and improve their analytical thinking abilities to apply engineering concepts in real world. Here at Sahyadri, We not only want the students to acquire only theoretical knowledge but also practical hands-on skills where they are fully involved in engineering.”

Dr .Manjunath Bhandary

Chairman, Bhandary Foundation

“SPSS Project is an initiative to get hands-on experience for students in application of engineering concepts”

Dr.U.M. Bhushi

Principal, Sahyadri College of Engineering & Management

“Project based learning is the latest trend in outcome based education and SPSS is one of the novel approaches to combine cognitive analytical skills with psychomotor skills in engineering.”

Dr.Rathishchandra.R.Gatti

SPSS-Head, Sahyadri College of Engineering & Management

2. SUMMARY

SPSS 2014-15 – Sahyadri Project Support Scheme was commenced in the year 2014-15. SPSS was to support the students in order to show their capability and enhance their intellectual level. The vision was to inculcate projects based learning new methodology in the present teaching arena.

Around **58** projects were successfully completed during the academic year 2014-15. The sanctioned money for funding was Rs.6, 45,000.00 out of which Rs. 5,22,850 was spent exclusively for project expenses.

SPSS Project programs were executed in the **Techvision 2015** program held in the Sahyadri College campus. These projects were well received and it was a success. The details of the SPSS 2014-15 are as follows:

SPSS 2014-15 STATISTICS

Branch	2 nd year	3 rd year	Total
ME	5	3	8
CV	4	-	4
CSE	2	-	2
ISE	2	1	3
ECE	3	3	7
	Total (2nd /3rd and 4th year Projects)		24
	1st Year		30
	PG Projects		4
	Interdisciplinary		1
	Grand Total		58

SPSS 2014-15 (DETAILS OF THE PROJECT)

Sr. No.	Project Title	Gr. Leader	Yr	Branch	Total amt	I inst	II inst	III inst	Total Amount
1	Building a Radio Controlled plane	Harsha R Bhat	I	ME	5,000	2,500	1,500	1,000	5,000
2	Human Sensing Lighting System	Mohammad Shamsan	I	ME	5,000	2,500			2,500
3	Autonomous Underwater Vehicle	Ajay Raj M P	I	ME	5,000	2,500			2,500
4	Vehicular Produced wind Energy	Muhammad Asfan S	I	ME	5,000	2,500			2,500
5	Machinability of Randomly Oriented Glass Fiber Reinforced Epoxy Plastic (RO-GFRP) Composite Laminates	Rohan A Shet	II	ME	9,500	3,000	4,000	2,500	9,500
6	Development of Mathematical Models for Residual Strength on the Basis of Experimental Observations by Drilling	Manoj M.Rao	II	ME	9,500	3,000	4,000	2,500	9,500
7	A Comparitive Study of Wear Behaviour of SiC Glass Epoxy Composites with Asbestos Material in Automotive Brake Pads Applications	Chetan H Gadad	II	ME	8,950	3,000	4,000	1,950	8,950

8	Design & Fabrication of Hydramp	Adarsh Prabhu B	II	ME	8,455	3,000	4,000	1,455	8,445
9	Android Controlled Quadcopter --- AMIS	Mohiyuddin Al Mushin	II	ME	8,445	3,000	4,000	1445	8,445
10	Design & Fabrication of Foundry Sand Reconditioner	Dhanush Achar	III	ME	23,000	7,500	10,000		17,500
11	Design & Development of Areca nut Tree Climber with Cutter & Atomizer	Tharanath	III	ME	23,000	7,500	10,000		17,500
12	Design and manufacture of embed machine for machining and household	Shabir Singh	III	ME	40,000	15,000	20,000		35,000
13	Shoppon	Praful P	I	Civil	5,000	2,500	1,500	1,000	5,000
14	E-Sahyadi	G. Anoosha	I	Civil	5,000	2,500	1,500	1,000	5,000
15	Circular Bot of Sahyadi	Mohammad Maashuk	I	Civil	5,000	2,500	1,500	1,000	5,000
16	Fuzzy Logic Based Water Quality Assessment	Sasha Rai P	I	Civil	25,000	7,500	10,000		17,500
17	Behaviour of steel reinforced concrete with partial replacement of coarse aggregate	Fairunnisa Kunnil	II	Civil	10,000	3,000	4,000	3,000	10,000

18	Rubcrete	Jeethan Grinal Rodrigues	II	Civil	10,000	3,000	4,000	3,000	10,000
19	Basical bridge	Upendra Kushwaha	II	Civil	10,000	3,000	4,000	3,000	10,000
20	Analysing techniques for earthquake resistant buildings and presenting the model	Rangeel R	II	Civil					
21	Aqua Robot	Prathviraj Shetty	I	CSE	5,000	3,500	1,500		5,000
22	Controlling Electronic Device using Smartphone App	Sanath R Kashyap	I	CSE	5,000	2,500	1,500	1,000	5,000
23	To Make a Working Model of Flying Hovercraft	Linford Royan	I	CSE	5,000	2,500	3,000	-500	5,500
24	Water Level Indicator	Shwetha Kumari	I	CSE	5,000	2,500	1,500	1,000	5,000
25	Hovercraft	Kiran Kedilaya	I	CSE	5,000	2,500	1,500	1,000	5,000
26	Gesture Control	Sharanya	I	CSE	5,000	2,500	1,500	1000	5,000
27	RC security plane	Ravi Yadav	I	CSE	5,000	3,500	1,500		5,000
28	Edge detector	Prathiksha Bhat	I	CSE	5,000			5000	5,000
29	Bus Alerting System	Lavanya K	I	CSE	25,000	7,500	10,000		17,500
30	Developing a novel technique for 4D Face recognition under pose variation	Roshin Varghese	I	CSE	25,000	7,500	10,000		17,500

31	An Advance Food Ordering System for Sahyadri	Srithuthi K A	I	CSE	5,000	2,500			2,500
32	Care Care -2 Tier System	Shwetha Shri	I	CSE	5,000	2,500			2,500
33	Power Generation by Utilization of Vehicular Produced Wind Energy	Dency Ben Dadhaniya	I	CSE	5,000	2,500			2,500
34	Touch screen camera using raspberry PI	Aysa Mahfooza	II	CSE	10,000	3,000	4,000	3,000	10,000
35	A revolutionary approach in the voting process for the nation	Aathira Raj	II	CSE	10,000	3,000	4,000	3,000	10,000
36	To Develop and Evaluate a Novel ARM+DSP Based Recognition Model using Composite Sketches for Identification of Most Wanted Criminals	Suhas	I	CSE/PG	25,000	7,500	10,000		17,500
37	Green House	Chandraprakash	I	ISE	5,000	2,500	1,500	1,000	5,000
38	SMS- Say no to Mobile in Sahyadri (Classroom)	Akshay Samanth	I	ISE	5,000	2,500			2,500
39	Digital Letter Box	Anuja Kumari	I	ISE	5,000	2,500			2,500
40	Maze Bot	Akhil	II	ISE	10,000	3,000	4,000	3,000	10,000

41	RC Flight Control	Gouse Khan M.S	II	ISE	10,000	3,000	3,000	4,000	10,000
42	Wanted Criminals by using i.MX6 Qseven Development Board	Rashmi Rai	III	ISE	25,000	7,500	10,000		17,500
43	Developing a Highly Secured Multimodal Biometric System on DSP+ARM Processor Using 3D Face and Finger Knuckle Images	Ashwitha K Shetty	I	ISE/PG	25,000	7,500	10,000		17,500
44	Automatic Turning on and off of Electric Device Using Smartphone App	Pavithree B Shetty	I	ECE	5,000	2,500	1,500	1,000	5,000
45	Autonomous Navigation	Amith B Shetty	I	ECE	5,000	2,500	1,500	1,000	5,000
46	Colour Detection	Varun K Bangera	I	ECE	5,000	2,500	1,500	1,000	5,000
47	Wireless Control	Rajeshwari Rao H	I	ECE	5,000	2,500	1,500	1,000	5,000
48	Design and Implement Floor Mopping Robot Equipped with a Vacuum Cleaner	Prathiksha Bhat	I	ECE	5,000	2,500			2,500
49	Developing a Highly Secured Multimodal Biometric System on DSP+ARM Processor Using 3D Face and Finger Knuckle Images	Ashwitha K Shetty	I	ECE	25,000	7,500	10,000		17,500

50	To build an autonomous "All Terrain Vehicle"	Gerald K Antony	II	ECE	10,000	3,000	3,000	4,000	10,000
51	RC plane for Aerial surveillance	Jitesh K	II	ECE	10,000	3,000	3,000	4,000	10,000
52	Autonomous RC Flight control system	Prashanth	II	ECE	10,000	3,000			3,000
53	C6 Integra DSP + ARM Processor Based Low Resolution and illumination Insensitive Recognition	Ashwini G. Pai	III	ECE	25,000	7,500	10,000		17,500
54	Developing a Novel Technique to Recognize Partially Occluded Images on a Dual ARM Cortex Core with FPGA	Sheethal Rao K	III	ECE	15,000	5,500	7,500		13,000
55	A jacket which warms the body @ low temperature	Vishnuprasad P V	III	ECE	20,000	5,500	10,000		15,500
56	Intuitive spy drone	Fadil Luquman	IV	ID	50,000	15,000	20,000		35,000
57	Designing of Novel Algorithms for user dependnet feature selection for Biometrics	Tushar	I	MCA/PG		2,000			2,000
58	Data Encryption based approach to handle privacy and security issues in RFID technology	Rakshith K M	I	MCA/PG		2,000			2,000

	Total		Sanctioned -- ->	6,45,850	Actual Spent -->	5,22,850			

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