

Report on Embedded Smart Systems & Their Aerospace Applications

Organized by: IEEE SB Marian Engineering College in association with the Department of Computer Science and Engineering

In association with: IEEE Kerala Section

Topic: Embedded Smart Systems & Their Aerospace Applications

Speaker: Dr. Sreelal S, Outstanding Scientist, Group Director, Flight Computer Group (FCG), Avionics Entity (AVN), VSSC, ISRO

Date: 26 September 2026

Time: 10:00 AM – 12:00 PM

Venue: CS Seminar Hall

IEEE SB Marian Engineering College, in association with the Department of Computer Science and Engineering and IEEE Kerala Section, organized a Student Development Lecture Programme (SDLP) on “Embedded Smart Systems & Their Aerospace Applications” on 26 September 2026 at the CS Seminar Hall. The session was handled by Dr. Sreelal S, Outstanding Scientist and Group Director, Flight Computer Group (FCG), Avionics Entity (AVN), VSSC, ISRO.

The session introduced the students to the significance of embedded systems in aerospace applications and their role in developing reliable and intelligent flight systems. The speaker explained the NGC (Next Generation Computer) system and discussed the major features of AMC-based NGC systems. The session also covered various flight software components and their importance in controlling and monitoring aerospace systems.

Further, the speaker discussed the Advanced Telemetry System, which enables the collection and transmission of important flight data, and the Data Acquisition Unit (DAU) used for acquiring data from different sensors and subsystems. The Advanced Video Imaging System and its applications in aerospace missions were also introduced. The importance of following proper software coding guidelines while developing safety-critical flight software was emphasized. A design example was presented to help students understand the practical application of the concepts discussed.

The programme provided students with valuable insights into the integration of embedded hardware, software, data acquisition, telemetry and imaging technologies in aerospace systems. It also helped participants understand the engineering challenges and design considerations involved in developing reliable flight systems. The session was highly

informative and provided students with a practical perspective on the application of embedded systems in the aerospace sector.

Event Poster



IEEE SB MCE in association with **Department of Computer Science and Engineering** presents:

SDLP BY IEEE KERALA SECTION

EMBEDDED SMART SYSTEMS & THEIR AEROSPACE APPLICATIONS

SDLP SPEAKER

Dr. SREELAL S

(Outstanding Scientist, Group Director,
Flight Computer Group (FCG), Avionics Entity(AVN),
VSSC, ISRO)



26 SEP 2026
10 - 12 AM SATURDAY

Venue
CS Seminar Hall

 **ieeesbmce**

For queries, please contact:
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Event Photographs







Event Attendance

Tel: 0471 2707444 2707000

Jyothish A	ME S7	22	
Nikhil Vinod	STAH	45	
Ajison Vasudha	STAH	8	
Dinesh Eugin	STAH	85	
Mathew V	STAH	86	
Sauraj R	STAH	68	
Mridul Zen	STAH	38	
Anakhs S	SS EC	10	
Bhrian Philip	STAH	23	
Pavan Lal	STAH	47	
Rithu Deep	STAH	50	
Jeffin Seshin	S3 R2	29	
Shavolin Suresh	S3 R2	49	
Adharsh Rajib R	S3 R2	47	
Ananthu Krishnavis	S3 R2	11	
Adharsh Efran Stalin	S3 R2	3	
Adwait Ajith	S3 R3	7	
Vaishnav S G	S3 R3	59	
Abhiram M	S5 ME	5	
Sarfaz Khan F	S5 ME	32	
Abhijith SS	S5 ME	3	
Alphonse JS	STAH	13	
Mirvanyam J	STAH	46	
Nakshatra K S	ST R1	43	



Name	class	Rollno	Sign.
24 Shabnam S	S3R3	52	
25 Meera Raj	S3R3	36	
26 Afnan A S	S3R3	8	
27 Fidha Noorbaal	S3R3	26	
28 Fidha Bhafack	S3R3	25	
29 Neha J	S3R3	42	
30 Sreedya A.R.	S3R3	55	
31 Ishvani Ajin	S5AH	59	
32 Vishal Varghase	S5AH	61	
33 SAI VISHNU MS	S7AH	52	
34 Prasanth	S3R3	57	
35 Prasanth	S3R3	7	
36 Prasanth	S3R3	54	
37 Prasanth	S3R3	54	
38 Sruja Lakshmi	S7AH	59	
35 Southi	"	60	
36 Kavani	"	2	
37 Sathya	"	55	
38 Shalini	"	54	
39 Anagha	"	16	
40 Adithyan SM	"	55	
41 Sreelakshmi S.P	S7R158	58	
42 Prasanthi S. Navi	S7R1	51	



24.	Rajan Akul Raj	STAH	49	
25.	Rohan Tom Reji	STAH	51	
26.	Alvin Noble	STAH	14	<u>Alvin</u>
27.	Naveen NR	STAH	44	
28.	Nabeel MS	STAH	39	<u>Nabeel</u>
29.	Salookha	STAH	53	<u>Salookha</u>
30.	Bijoy	STAH	24	
31.	Farhan Muhammed	STAH	28	<u>Farhan</u>
32.	Hajius Havis	STAH	34	
33.	Akshara Ambrose	STAH	9	<u>Akshara</u>
34.	Goweri G.R	STAH	32	<u>Goweri</u>
35.	Goweri S.L	STAH	31	<u>Goweri</u>
36.	Ananthakrishnan S	STAH	17	<u>Ananthakrishnan</u>
37.	Davis P Joseph	STAH	25	<u>Davis</u>
38.	Aadhithyan A.S	STAH	1	<u>Aadhithyan</u>
39.	S Gautham	STRI	54	<u>Gautham</u>
40.	Krishna GG	STRI	37	<u>Krishna</u>
41.	Sivani PR	STRI	57	<u>Sivani</u>
42.	SL Nandhana RR	STRI	55	<u>Nandhana</u>
43.	Adwaith S Raj	STRI	7	<u>Adwaith</u>
44.	Anis Anmash S Anil	STRI	19	<u>Anmash</u>



Name	Class	Roll No	Sign.
Ambade. V. Gopal	Mech S3	13	<u>Ambade</u>
Vishnu Afayan	Mech S3	44	<u>Vishnu</u>
Adithya. T. S	Mech S3	9	<u>Adithya</u>
S. Sanuha Shaji	Mech S3	41	<u>Sanuha</u>
Greatson. Suresh	S3 ME	23	<u>Greatson</u>
Miracle William	S7 AH	37	<u>Miracle</u>
Adhithian P. B	S7 EE	01	<u>Adhithian</u>
Anya Suresh	S7 EEE	12	<u>Anya</u>
Faehana Fathima	S7 EEE	14	<u>Faehana</u>
Adhithya. I	S7 EEE	2	<u>Adhithya</u>
Rachel Mary Job	S7 EEE	22	<u>Rachel</u>
Akha B. D	S7 EEE	10	<u>Akha</u>
NANDANA KUNHNA	S7 AH	41	<u>Nandana</u>
SHABANA	S7 AH	56	<u>Shabana</u>
REENIDHI. V	S7 AH	58	<u>REENIDHI</u>
Gautham. Krishna	S7 AH	29	<u>Gautham</u>
R. N. Anu	S7 AH	61	<u>R. N. Anu</u>
T. Maheswaran	S7 AH	61	<u>T. Maheswaran</u>
Aaron Francis	S5 CS-R1	2	<u>Aaron</u>
Sephan. P. Rozario	S5 CS-R1	53	<u>Sephan</u>
Allen Anil	S5 CS-R1	12	<u>Allen Anil</u>
Kevin. S	S5 CS-R1	35	<u>Kevin</u>
Anjun Radhishyam	S5 CS-R1	15	<u>Anjun</u>
Joel. J. Anto	S5 CS-R1	32	<u>Joel</u>