



One Day National Seminar on "High Performance Materials and Its Characterization for Aerospace and Mechanical Engineering Applications" On November 15th, 2023

Organized by

Department of Mechanical Engineering, BS Abdur Rahman Crescent Institute of Science and Technology

In Association with Aeronautical Society of India (AeSI), Chennai Branch.

Convenors

Dr. H. Siddhi Jailani,

Dean/SMS.

Dr. A.S.Selva Kumar,

Professor and HOD, Department of Mechanical Engineering, BS Abdur Rahman Crescent Institute of Science and Technology, Chennai.

Coordinators

Dr. K.Mohamed Bak, Asst Professor

Dr. S. Jeavudeen, Asst. Prof. (Sel.Grade)

Department of Mechanical Engineering School of Mechanical Sciences, BS Abdur Rahman Crescent Institute of Science and Technology, Chennai.

Resource Persons:

Dr. D. SATHIA NARAYANAN,

Scientist F,

National Institute of Ocean Technology (NIOT), Ministry of Earth Sciences, Chennai.

Dr. S. RAJENDRA BOOPATHY,

Emeritus Professor (AU-FRG), Dept. of Mechanical Engineering, CEG Campus, Anna University, Chennai.

Dr. K. KALAICHELVAN

Professor,
Dept. of Ceramic Technology,
ACT Campus, Anna University, Chennai.

PREAMBLE

The Department of Mechanical Engineering has organized one day National Seminar on "High Performance Materials and Its Characterization for Aerospace and Mechanical Engineering Applications" "held on 15.11.2023 at **B. S. Abdur Rahman Crescent Institute of Science and Technology**, Chennai, in Association with **Aeronautical Society of India (AeSI), Chennai Branch**. Total 48 students registered for this seminar including external and internal participants.

Brochure of the Seminar



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- Ph. D. Pull Time Part Time



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Target Audience
This seminar is upon to Faculty members, Rose
IG and PG students, and Industry profess

Invitation of the Seminar



The seminar started with recitation of Qirath. The seminar coordinator, Dr. K. Mohamed Bak, extended a warm welcome to the attendees, and Dr. A. S. Selvakumar, HoD – Mechanical and Dr. H. Siddhi Jailani, Dean (SMS), offered their felicitations thereafter.

Session I:

The guest of this seminar **Dr. D. Sathia Narayanan, Scientist F**, National Institute of Ocean Technology, Chennai has presented the topic on "**High Performance Materials and its applications**".

His lecture focused on:

> The performance of advanced materials, including hybrid composites, titanium alloys, aluminum alloys, and high-performance coatings.





Session II:

Dr. S. Rajendra Boopathy, Emeritus Professor, Department of Mechanical Engineering, College of Engineering Guindy, Anna Univeristy, Chennai has presented the topic on "**Effect of welding processes on ferrite content, microstructure and mechanical properties of super duplex stainless steel 2507 welds"**.

The emphasis of his lecture was on

- ➤ Welding procedures and post-weld heat treatment.
- Microstructure, and mechanical properties of super duplex stainless steel (SDSS) 2507 welds.





Session III:

Dr .K Kalaichelvan, Professor, Department of Ceramic Technology has presented the topic on "Testing of Materials and Ceramic Matrix Composites for Aerospace and Mechanical Engineering Applications".

His presentation focused on:

- Ceramic matrix composites (CMCs) intended for applications in aerospace and mechanical engineering.
- The various testing methods such as
 - 1. Mechanical Testing,
 - 2. Fatigue Testing,
 - 3. Toughness Testing,
 - 4. Specialized Testing for Ceramic Matrix Composites.





All the session were informative to the faculty members and participants. The seminar was concluded with the vote of thanks by Dr. S. Jeavudeen – coordinator of the event.

Total number of students registered: 48

External Participants: 04 Internal Participants: 44

AeSI Members: NIL

S.NO	STUDENT NAME	COLLEGE NAME
1	W.JENSLIN	AC TECH CAMPUS, ANNA UNIVERSITY
2	ABINESH Y	TAGORE ENGG COLLEGE
3	SIVA BALAN M	TAGORE ENGG COLLEGE
4	SRIJITH SARAVANAA	TAGORE ENGG COLLEGE
5	Dr.MD JAVEED AHMED,	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
	ASST PROFESSOR	SCIENCE AND TECHNOLOGY
6	SRI RAM S	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
7	FARIH FYZAL KARATTIYATIL	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
8	MOHAMED HANNAN	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
9	BHARANI DHARAN N	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
10	G KISHORE	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
11	MOHAMED ABDUL AZEEZ	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
12	ZULFEQUR AHMED KHAN	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
13	KAMALESH R	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
14	GNANESH G	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
15	PRASANA RAM J	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
16	KISHORE KUMAR V	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
17	SRI RAM KUMAR V	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
18	ARNOLD SAMSON	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY

19	RAJA RAM R	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
20	B.GUGAN	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
21	MANIKANDAN K	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
22	MAFAZ AHMED A	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
23	LOGESH P T	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
24	AAKASH M	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
25	MOHAMED ASHIQ K	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
26	GOWTHAM S	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
27	HAMEED FAYAZ H	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
28	MOHAMED MOHSIN B	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
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29	KAVIN NILAVAN I	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
30	RAVI RAJ S	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
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31	KAMESH J	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
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32	PRAVEEN G	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
33	TIMOTHY R	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
34	VASANTH KUMAR K	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
35	MOHAMED HASEEB Z	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY

36	THOMSON Y	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
37	PERAISOODAN VISWANATH	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
38	MOHAMED SHAHIL AKTHAR	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
39	MOHAMED SHABAN K	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
40	MANIKANDAN G	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
41	ROHAN S	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
42	RAGUL K	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
43	MOHAMED ZUBER I	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
44	FARHAN MOHAMED	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
45	MOHAMED ZAFAR	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
46	MOHAMED MALIK ALI	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
47	MOHAMED DANISH MUSTAFA	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
48	PRADEEP R	BS ABDUR RAHMAN CRESCENT INSTITUTE OF
		SCIENCE AND TECHNOLOGY
L		I .

Sample Certificate:





Certificate of Participation

has participated in One Day Seminar on "High Performance Materials and its Characterization for Aerospace and Mechanical Engineering Applications" held on 15.11.2023 at Department of Mechanical Engineering, B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai.

Dr. K. Mohamed Bak Dr. S. Jeavudeen COORDINATORS Dr. A.S. Selvakumar HOD/MECH Dr. H. Siddhi Jailani DEAN/SMS