



## AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Nizara Educational Campus, Muthapudupet, Avadi IAF, Chennai – 600 055.

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### DEPARTMENT OF MECHANICAL ENGINEERING

<b>NAME &amp; INITIALS</b>	Dr. ANJAN KUMAR SAHU	
<b>DESIGNATION</b>	ASSOCIATE PROFESSOR	
<b>EDUCATIONAL QUALIFICATION</b>	Ph.D.	
<b>EXPERIENCE</b>	16.7 YEARS	
<b>DATE OF JOINING</b>	09.08.2004	
<b>EMAIL ID</b>	anjan_sahu@yahoo.co.in	
<b>AREA OF SPECIALISATION</b>	REFRIGERATION AND THERMAL SCIENCES	

### EDUCATIONAL QUALIFICATION

DEGREE	BRANCH / SPECIALIZATION	INSTITUTION	UNIVERSITY	YEAR
Ph.D	REFRIGERATION	UNIVERSITY COLLEGE OF ENGINEERING, BURLA, SAMBALPUR, ODISHA.	SAMBALPUR UNIVERSITY, ODISHA.	2018
M.Tech	THERMAL SCIENCES	NATIONAL INSTITUTE OF TECHNOLOGY, CALICUT, KERALA.	NIT CALICUT, KERALA	2003
A.M.I.E.	MECHANICAL ENGINEERING	GIE, ST THOMAS MOUNT, CHENNAI.	INSTITUTION OF ENGINEERS INDIA, CALCUTTA, WEST BENGAL.	1997
B.Sc	CHEMISTRY	GOVERNMENT COLLEGE ANGUL, ODISHA.	UTKAL UNIVERSITY, ODISHA.	1990
HSC	SCIENCE	GOVERNMENT COLLEGE ANGUL, ODISHA.	COUNCIL OF HIGHER SECONDARY EDUCATION (CHSE) ODISHA.	1987
SSLC	MATHEMATICS AND SCIENCE	SARANGA DHAR HIGH SCHOOL, KAMAKHYA NAGAR, ODISHA.	BOARD OF SECONDARY EDUCATION (BSE) ODISHA.	1985

### PROFESSIONAL MEMBERSHIPS

ASSOCIATE MEMBER OF INSTITUTION OF ENGINEERS (INDIA), MEMBERSHIP NUMBER-AM-095789-8.

INTERNATIONAL ASSOCIATION OF ENGINEERS (IAENG), MEMBERSHIP NUMBER-242820

INSTITUTE OF RESEARCH ENGINEERS AND DOCTORS (IRED), MEMBERSHIP NUMBER-SNM-10100059726

### FDP ATTENDED

Participated one week short term training program (STTP) “**Advances and Practices in Heating, Ventilation, Air-Conditioning and Refrigeration**” organized by Department of Mechanical Engineering, Dr. Babasaheb Amedkar Technological University, Lonere, Raigad, Maharastra under aegis of Technical Education Quality Improvement Program (TEQIP-II) January 8-12, 2013.

Participated in the faculty development program (FDP) “**Engineering Graphics**” at Aalim Muhammed Salegh College of Engineering, Avadi-IAF, Chennai, Tamilnadu on 1<sup>st</sup> and 2<sup>nd</sup> July 2013.

Participated in the faculty development program (FDP) “**Effective classroom Interaction**” at Aalim Muhammed Salegh College of Engineering, Avadi-IAF, Chennai, Tamilnadu on 9<sup>th</sup> August 2008.

Participated One Day online faculty development program (FDP) on “**Significance of course file and how to use it for PDCA in OBE**” conducted on 4.06.2020 and organized by Rajalakshmi Engineering College (AICTE-MARGADARSHAN) Chennai.

Participated One Day online faculty development program (FDP) on “**Direct and indirect measures of assessment and attainment of POs & COs**” conducted on 8.06.2020 and organized by Rajalakshmi Engineering College (AICTE-MARGADARSHAN) Chennai.

Participated One Day online faculty development program (FDP) on “**Faculty role in SAR**” conducted on 10.06.2020 and organized by Rajalakshmi Engineering College (AICTE-

<b>MARGADARSHAN) Chennai.</b>
Participated One Day online faculty development program ( <b>FDP</b> ) on “ <b>How to write and publish a good technical paper</b> ” conducted on 12.06.2020 and organized by Rajalakshmi Engineering College ( <b>AICTE-MARGADARSHAN</b> ) Chennai.
Participated 5 Days online faculty development program ( <b>FDP</b> ) on “How teachers can make a difference” conducted by <b>Teaching Learning Centre IIT Madras from 15.06.20 to 19.06.20</b> and organized by Rajalakshmi Engineering College ( <b>AICTE-MARGADARSHAN</b> ) Chennai.
Participated 5 Days online faculty development program ( <b>FDP</b> ) on “ 7 QC TOOLS for educational excellence” conducted by <b>Quality Circular Forum of India Chennai Chapter from 22.06.20 to 26.06.20</b> and organized by Rajalakshmi Engineering College ( <b>AICTE-MARGADARSHAN</b> ) Chennai.
Participated and completed successfully <b>AICTE Training &amp; Learning (ATAL) Academy online FDP</b> on “Energy Engineering” from <b>23.11.20 to 27.11.20</b> at <b>Indian Institute of Technology Roorkee (IITR).</b>
Participated and completed successfully <b>AICTE Training &amp; Learning (ATAL) Academy online FDP</b> on “Energy Storage” from <b>22.02.21 to 26.02.21</b> at <b>Malaviya National Institute of Technology Jaipur.</b>

#### WORKSHOPS ATTENDED

Participated in Two Days <b>National Level Workshop</b> on “ <b>Recent Trends in Automobile Engineering</b> ” on 19th & 20th July 2019 at Prathyusha Engineering College, Poonamallee-Tiruvallur Road, Tiruvallur, Tamilnadu – 602025.
Attended one day Training Program on “ <b>Quality Management System for Automotive Industry – TS 16949-2009</b> ” conducted at VIT University on 27 <sup>th</sup> September 2010.

### SEMINARS ATTENDED

Attended Seminar “International Intellectual Convergence on Advances in Sciences and Engineering (**IIASE**)” at Aalim Muhammed Saalegh College of Engineering Chennai, India, March 3-4, 2017.

### PUBLICATION DETAILS

**Anjan Kumar Sahu**, Neeraj Agrawal, Prasant Nanda, “A parametric study of transcritical CO<sub>2</sub> simple cooling cycle and combined power cycle”, Int. J. of low Carbon Technologies (**SCI, Scopus & UGC**), vol.12, no.4, 1 December 2017, pp.383-391.

**Anjan Kumar Sahu**, Neeraj Agrawal, Prasant Nanda. “Thermodynamic studies of transcritical CO<sub>2</sub> and N<sub>2</sub>O combined power refrigeration cycles” Indian. J. of Science and Technology (**Scopus & UGC**)”, vol.10, no.28, July 2017. pp.1-9.

Prasant Nanda, **Anjan Kumar Sahu**, Neeraj Agrawal, “A Comparative Performance study of Combined Cooling Heating and Power Transcritical CO<sub>2</sub> and N<sub>2</sub>O Cycles, Int. J. of Emerging Tech. and Adv. Engineering (**UGC**), vol.7, no.8, August 2017, pp. 414-422.

**Anjan Kumar Sahu**, Prasant Nanda, “ A Thermodynamic Performance Study of Simple Cooling and Combined Power Transcritical N<sub>2</sub>O cycles, Int. J. for Research in Engineering Application & Management (**UGC**) , vol.4, no.3, June 2018, pp. 408-415.

P Jadhav, N Agrawal, **A Sahu**, S Patil, D Aldar and A Tapase, “Influence of geometric and operating parameters on the performance of the helical capillary tube for the R744 refrigerant, 3rd International Conference on Advances in Mechanical Engineering (ICAME 2020), IOP Conf. Series: Materials Science and Engineering (**Scopus**) **912** (2020) 042046, February 24-29, 2020 SRM University, Chennai.

### CONFERENCE DETAILS

**Anjan Kumar Sahu**, Neeraj Agrawal, Prasant Nanda, Mohd. F. Shabir. “A comparative thermodynamic study of transcritical CO<sub>2</sub> and N<sub>2</sub>O simple cooling cycles” International Intellectual Convergence on Advances in Sciences and Engineering (**IIASE**), Chennai, India, March 3-4, 2017.

**Anjan Kumar Sahu**, M. Mohamed Yasir, M. Mohamed Marshath, F. Mohammed Fahad and Safat Ahamed “Generation of Drinking Water from Humid Atmospheric Air in Coastal Region” Student Projects Scheme Seminar Cum Exhibition (**2018-2019**) proceedings, Tamil Nadu State Council for Science and Technology (**TNSCST**), Chennai.

P L Jadhav, Neeraj A Agrawal and **Anjan Kumar Sahu**, “Influence of geometric and operating parameters on the flow behaviour of the helical capillary tube for the R744 refrigerant” International conference on advance in mechanical Engineering (**ICAME 2020**), Chennai, India, February 24-29, 2020.

### ACHIEVEMENT DETAILS

Qualified **GATE** in Mechanical Engineering with Score **90.10**.in the year 2001.

Qualified **NPTEL** online Product Design and Development (PDD) course and obtained **Elite +Gold (92 %)** certificate in December 2020.

Qualified **NPTEL** online Manufacturing Processes-Casting and Joining (MPCJ) course and obtained **All India Topper (2 %)** with **Elite +Gold (90 %)** certificate in March 2021.

**FUNDED PROJECT**

A final year VIII Semester B.E (Mechanical Engineering) Project titled **“Generation of Drinking Water from Humid Atmospheric Air in Coastal Region”** approved by Tamil Nadu State Council for Science and Technology (TNSCST) of Rs 7500.00 for the academic year 2018-19.