



ANKUR KAUNDAL
MS (By Research), Thermal Engg.

CONTACT



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CAREER OBJECTIVE

To secure a challenging position in the academia which contribute to the welfare of society as a whole.

EDUCATIONAL QUALIFICATIONS

S.NO.	EXAMINATION/ PROGRAMME	SCHOOL	BOARD/UNIVERSITY	PERCENTAGE/ GPA
1	MS (2015-Present)	IIT Mandi	IIT Mandi	9.0
2	B.Tech (2010-14)	SEET	BUEST, Baddi	8.94
3	Intermediate (2010)	SVM Sr. Sec. School, Darlaghat	HPBOSE	88.8
4	Matriculation (2008)	SVM Sr. Sec. School, Darlaghat	HPBOSE	87.43

RESEARCH AREA

“Combustion analyses of solar assistance gasification-based cook stoves to predict the temperature variation and local concentration of various emitting species”

Nature of Research: Experiments and software simulations

Description: Inefficient domestic cook stove designs pose serious threats to human lives due to harmful and detrimental emissions. Software simulations employ the use of CFD techniques to predict the concentration of various species emitting out as a result of wood burning in domestic cook stoves. This information along with temperature profile is used to optimize the cook stove design. Besides this, experiments are conducted on fabricated prototypes to analyze the performance on shop floor.

Other interests: Solar thermal, combustion technology, thermo-chemical conversion reactions

Software used:

- 1) Hypermesh
- 2) Gambit
- 3) Star CCM+
- 4) Ansys Fluent
- 5) SolidWorks
- 6) MATLAB
- 7) Tecplot

PUBLICATIONS

Book Chapter:

1) **Ankur Kaundal**, Satvasheel Powar, Atul Dhar, "Solar-Assisted Gasification Based Cook Stoves", *Coal and Biomass Gasification*, pp.403-422, Jan 2018, DOI 10.1007/978-981-10-7335-9_16

Conferences:

1) **Ankur Kaundal**, Atul Dhar, Satvasheel Powar, "CFD analysis of gasification based cook stove to predict the temperature variation and local concentration of various emitting species" Paper No.-163, *International Conference on Sustainable Energy and Environment Challenges (SEEC-2018)*, Jan 2018

2) **Ankur Kaundal**, Atul Dhar, Satvasheel Powar, "Sustainable Solid Waste management through solar assisted Gasification" Paper No.-165, *International Conference on Sustainable Energy and Environment Challenges (SEEC-2017)*, Feb 2017

TEACHING ASSISTANTSHIPS

Course	Institute	Class	Duration
<ul style="list-style-type: none">Engineering Thermodynamics	IIT Mandi	B. Tech 1 st Yr	1 semester
<ul style="list-style-type: none">Thermo-Fluid Lab/ Emerging Energy Sources	IIT Mandi	B.Tech 4 th Yr	1 semester
<ul style="list-style-type: none">Energy Conversion Devices	IIT Mandi	B.Tech 3 rd Yr	1 semester
<ul style="list-style-type: none">Energy Systems Laboratory	IIT Mandi	M.Tech 1 st Yr	1 semester

SUMMER INTERNSHIPS

INDUSTRY/ INSTITUTE	DURATION
<ul style="list-style-type: none">Industrial training at NTPC Koldam Hydro Power Project, Bilaspur	4 Weeks
<ul style="list-style-type: none">AUTOCAD course at Parametric Cadtech, Chandigarh.	6 Weeks
<ul style="list-style-type: none">Industrial Automation & Robotics course at NFI Institute Chandigarh	6 Weeks
<ul style="list-style-type: none">CATIA basic course at Parametric Cadtech, Chandigarh.	6 Weeks

EXTRA CURRICULAR ACTIVITIES

- Coordinator of Art of Living club for organizing YES!+ workshops at BUEST campus.
- Member of Technical Committee for technical cum cultural national level fest EMANATION 2012.
- Coordinator of Technical event for technical cum cultural national level fest EMANATION 2013.
- Executive Member of ISTE Baddi chapter for session 2012-13.
- Participated in Adobe Premiere pro video editing workshop “PIXONIDS” 3rd-6th March, 2011 .
- Participated in “LoopHole – Ethical Hacking Workshop” 13th – 14th April, 2012.
- Participated in workshop on “AVR Series of Microcontroller and Proteus Simulation” 26th -27th April, 2013

ACHIEVEMENTS

- Award of Honour by “Manav Kalyan Samiti” for standing first in 10+2 examinations at Tehsil level.
- Certificate of Merit for securing second position in B.Tech Academic Year 2010-11.
- Certificate of Merit for securing second position in B.Tech Academic Year 2011-12.
- Certificate of Merit for securing first position in B.Tech Academic Year 2012-13.
- One time incentive award “Mukhya Mantri Protsahan Yojna” worth 75000/- INR for getting MS admit at IIT Mandi.
- MHRD scholarship post GATE qualification.

PREFERED SUBJECTS FOR TEACHING

- Thermodynamics
- Heat Transfer
- Theory of Machines
- Strength of Materials
- Refrigeration & Air-Conditioning
- Fluid Mechanics

HOBBIES AND INTERESTS

- Reading spiritual books.
- Internet surfing for informative contents.
- Playing Cricket and computer games.

OTHER DETAILS

Date of Birth: 05 June, 1993

Gender: Male

Languages known: English, Hindi

Address for communication: Ankur Kaundal S/O Sh. Mahender Pal Kaundal
Vill.- Chhamla, P.O.- Navgaon
Teh.- Arki, Distt.- Solan, H.P.
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