

ANIL KUMAR B.C.

Designation: ASSISTANT PROFESSOR

Date of Birth: 26th September 1982

Date of joining at LBSCEK: 16-01-2008

Address:

OFFICE:

Department of Mechanical Engineering
LBS College of Engineering Kasaragod
Povval, Muliya P.O.
Kasaragod, Kerala-671542

RESIDENCE:

Balakandam House
Karadka P.O.
Kasaragod Dist
Kerala-671542

Contact Details:

Telephone: +919496358213

Email: anilkbc20031@gmail.com

anilkbc@lbscek.ac.in

Google Scholar: <https://scholar.google.com/citations?user=9RfayngAAAAJ&hl=en>

Researchgate: <https://www.researchgate.net/profile/Anilkumar-B-C>

ORCID: <https://orcid.org/0000-0003-0463-8071>



Educational Qualifications:

- Doing Ph.D. under QIP scheme at National Institute of Technology Karnataka, Surathkal.
- Master of Technology in Mechanical Engineering (Thermal Sciences) from National Institute of Technology Calicut, Kerala in the year 2012.
- Bachelor of Technology in Mechanical Engineering from LBS College of Engineering Kasaragod, Kerala (Kannur University) in the year 2004.

Research Interest:

Renewable Energy; Solar Energy; Solar Cooking; Multi-Criteria Decision Making; Biodiesel; Nanotechnology; Heat Transfer.

Teaching Experience:

- Guest Lecturer at LBS College of Engineering Kasaragod from October 2004 to April 2005.
- Lecturer at Sree Narayana Guru College of Engineering & Technology Payyanur from June 2005 to October 2007.

- Assistant Professor at LBS College of Engineering Kasaragod from January 2008 to till date.

Subjects Taught:

UG: Advanced Energy Engineering; Engineering Mechanics; Basic Mechanical Engineering; Engineering Graphics; Mechanics of Solids; Operations Research; Thermodynamics; Metrology and Instrumentation.

PG: Thermal Environmental Engineering; Design of Heat Transfer Equipment.

Achievements:

- **Second Rank** in the Kannur University BTech Degree Examinations (Mechanical Engineering) in the year 2004.
- Qualified **GATE** in the year 2007 & 2010.
- **Best Teacher Award** for the year 2015-16 in LBS College of Engineering Kasaragod.
- Participated and won the second place for the **best poster presentation** award for the paper titled 'Solar cooker with low cost sensible heat storage medium' in the Mahindra University Research Symposium (MURS 2020).

Membership in Professional bodies:

- **Life time membership** in REST SOCIETY FOR RESEARCH INTERNATIONAL from June 2021. [Membership No: LM: AA0216]

LIST OF JOURNALS:

- **B.C. Anilkumar**, R. Maniyeri, S. Anish, " Optimum selection of phase change material for solar box cooker integrated with thermal energy storage unit using multi-criteria decision-making", *Journal of Energy Storage*, Vol. 40, No. 102807, <https://doi.org/10.1016/j.est.2021>. (**SCI-Impact factor: 3.762**)
- **B.C. Anilkumar**, R. Maniyeri, S. Anish, "Design, Fabrication and Performance Assessment of a Solar Cooker with Optimum Composition of Heat Storage Materials", *Environmental Science and Pollution Research*, 2020 (Available Online), <https://doi.org/10.1007/s11356-020-11024-3>. (**SCI-Impact factor: 3.1**)
- C. Sreerag, P. Sachin, K.C. Shyamraj, P. Aswin, K. Akhil, P.C. Saishyam, **B.C. Anil Kumar**, An Experimental & Numerical Investigation of Heat Loss from Spherical Cavity Solar Receiver, *International Journal of Advance Research and Innovative Ideas in Education*, Volume 2, Issue 4, 2017.
- V.K. Nideep Nirmal and **B.C. Anilkumar**, Experimental Investigation into the effects of four-way catalytic converter on four stroke diesel engine emissions, *International Journal of Engineering Research & Technology*, Volume 4, Issue 10, October 2015, PP 402-406.

- K. Vipin and **B.C. Anilkumar**, Selection and Comparative Studies of working fluids for Organic Rankine Cycle(ORC), *International Journal of Engineering Research & Technology*, Volume 4, Issue 10, October 2015, PP 28-33.
- V.M. Jeevanlal and **B.C. Anilkumar**, Experimental Investigation of Heat Transfer from a Flat and Surface Indented Plate Impinged with Cold Air Jet Using Circular Nozzle, *International Journal of Emerging Engineering Research & Technology*, Volume 2, Issue 5, August 2014, PP 160-170.
- V.V. Rakesh, **B.C. Anilkumar** and Robins Aikkara, Investigation of Various Properties of Biodiesel from Waste Cooking Coconut and Palm Oil and Comparison with the Petroleum Diesel, *International Journal of Emerging Engineering Research & Technology*, Volume 2, Issue 7, October 2014, PP 36-42.

LIST OF CONFERENCES:

- **B C Anil Kumar**, R. Maniyeri, S, Anish, "Development of a Computational Procedure for Designing Thermal Energy Storage Unit for Solar Box Cooker", 3rd *International Conference on Advances in Mechanical Engineering and Nanotechnology (ICAMEN-2021)*, March 18-19, 2021, Manipal University Jaipur and NIT Uttarakhand, India.
- **B C Anil Kumar**, R. Maniyeri, S, Anish, "Solar Cooker with Low Cost Sensible Heat Storage Medium", *Mahindra University Research Symposium (MURS-2020)*, November 26-27, 2020, Mahindra University, Hyderabad. Telangana, India.
- **B C Anil Kumar**, R. Maniyeri, S, Anish, "Design, fabrication and performance assessment of a solar cooker with optimum composition of heat storage materials", *5th International National Conference on Recent Advancements in Chemical, Energy and Environmental Engineering*, February 13-14, 2020, SSN College of Engineering, Chennai, India.
- **B C Anil Kumar**, R. Maniyeri, S, Anish, "Numerical Investigation on the Effect of Various Geometries in a Solar Box Type Cooker: A Comparative Study", *46th National Conference on Fluid Mechanics and Fluid Power (FMFP)*, December 9-11, 2019, PSG College of Technology, Coimbatore, India.
- **B C Anil Kumar**, R. Maniyeri, S, Anish, "Experimental Investigation on the Effect of Decahedron Frustum Shaped Reflector on the Performance of a Cylindrical Box Type Solar Cooker", *International Conference on Sustainable Energy and Environment Challenges (SEEC-2019)*, November 27-29, 2019, CSIR-NEERI, Nagpur, India.
- **B C Anil Kumar** and V. Sajith, "Experimental investigation on the effect of catalytic nano particles on fuel properties and wear characteristics", *International Conference AMMMT-2013*, Siddaganga Institute of Technology, Tumkur.
- Presented a paper titled "Experimental investigation On the effect of low cost sensible thermal energy storage medium in a solar box-type cooker", in the *International Conference on Technology Convergence in Engineering, Energy and Sustainability* from 11th -12th July 2019 at Vimal Jyothi Engineering College Kannur, Kerala.
- Participated in the *8th National Conference on Technological Trend* held at College of Engineering Trivandrum, Kerala.

- Participated at the “*National Conference on Renewable Energy Systems and Engineering*” on 7th and 8th November 2014 conducted at Vivekananda College of Engineering & Technology Puttur, Karnataka.
- Presented a paper titled “Design & experimental investigation of four-way catalytic converter”, in the *2nd National Conference on Technological Advancements in Engineering* from 17th -18th March 2016 at Sree Narayana Guru College of Engineering & Technology Payyanur, Kerala.
- Presented a paper titled “An Experimental& Numerical Investigation Of Heat Loss in a Spherical Cavity Solar Receiver” in the *3rd National conference on Technological Advancements in Engineering* held at Sree Narayana Guru College of Engineering Engineer & Technology Payyannur on 25th March 2017.
- Presented a paper titled “An Experimental& Numerical Investigation Of Heat Loss in a Conical Cavity Solar Receiver” in the *3rd National conference on Technological Advancements in Engineering* held at Sree Narayana Guru College of Engineering Engineer & Technology Payyannur on 25th March 2017.
- Presented a paper titled “Experimental Analysis on Solar Panel Cooling using Heat Pipe” in the *4th National Conference on Technological Advancements in Engineering* held at Sree Narayana Guru College of Engineering & Technology Payyannur on 16th-17th March 2018.
- Presented a paper titled” Design of Electromagnetic Reciprocating Engine” in the *National Conference on Recent Trends in Engineering & Technology* held at Government Polytechnic College, Kasaragod, Periyekal from 1-03-2018 to 2-03-2018.

LIST OF FACULTY DEVELOPMENT/SHORT TERM PROGRAM:

- Successfully completed and Topped the Qualified Exam of One Week Workshop on “*Multi Criteria Decision making*” (online mode) from 19-04-2021 to 23-04-2021 organized by REST Society for Research International (RSRI) Krishnagiri, Tamil Nadu, India.
- Successfully completed and Qualified Exam of One Week “*Recent trends in Statistical analysis*” (online mode) from 29-03-2021 to 03-04-2021 organized by REST Society for Research International (RSRI), Krishnagiri, Tamil Nadu, India.
- AICTE-Training And Learning (ATAL) Academy online Faculty Development Programme on "*CFD*" from 4-01-2021 to 8-01-2021 at L B S College of Engineering, Kasaragod, Kerala.
- AICTE-Training And Learning (ATAL) Academy online Faculty Development Program on “*Green Technology & Sustainability Engineering*" from 8-12-2020 to 12-12-2020 at National Institute of Technology Raipur.
- One Week Faculty Development Program (FDP) on “*Recent advances in solar energy, optimization and its applications*” from 23rd to 27th of November 2020, organized by Department of Mechanical Engineering, Nitte Meenakshi Institute of Technology, Bangalore-64, Karnataka.

- AICTE-Training And Learning (ATAL) Academy online Faculty Development Programme on “*Block Chain*” from 2-11-2020 to 6-11-2020 at LBS College of Engineering Kasaragod, Kerala.
- Webinar on “*Role of glasses in energy and technology*” on 19th September 2020, by the PSG Care, Coimbatore, Tamilnadu.
- Online Faculty Development Program on “*Emerging Fields in Thermal Engineering*” Organized from 13th to 15th August 2020 by the Department of Mechanical Engineering Providence College of Engineering, Chengannur, Kerala.
- Webinar on “*Planning and Developing in-class Experiments for Fluid and Thermal Sciences*” on 24-June-2020, by the Department of Mechanical Engineering, LBS College of Engineering Kasaragod, Kerala.
- Online Short-Term Training Program on “*Research Methodology*” Organized from 28th to 30th May 2020 by the Department of Mechanical Engineering, Amal Jyothi College of Engineering Kanjirappally, Kottayam, Kerala.
- Online workshop on “*Scientific Writing for Journals*” organized by Springer Nature on 15th May 2020.
- TEQIP III sponsored Faculty Development Program on “Fiber Reinforced Concrete and its Applications” from 18-11-2019 to 22-11-2019 at National Institute of Technology Karnataka, Surathkal.
- TEQIP III sponsored Short term course on “*Modelling and Simulation of Micro and Macro Multiphase system*” from 08-01-2019 to 12-01-2019 at National Institute of Technology Karnataka, Surathkal.
- Successfully completed 8 Week (Jan-Mar 2019) Online Certification course in “*Matlab programming for numerical computation*” conducted by NPTEL 2019.
- DTE sponsored Faculty Development Program on “*Research Perspectives in Emerging Areas of Industrial Safety and Environmental Engineering*” from 3-12-2018 to 7-12-2018 at Govt. College of Engineering, Thrissur, Kerala.
- DTE sponsored STTP on “*Energy Conversion Technologies for Future Research Prospects*” from 25-06-2018 to 29-06-2018 at Govt. College of Engineering, Thrissur, Kerala.
- AICTE-Faculty Development Program on “*Research Methodology in Engineering & Technology*” from 21st October to 3rd November 2013 at College of Engineering Munnar, Kerala.
- Short-Term Training Program on “*Modelling & Analysis of Thermal Systems*” from 9th to 11th July 2012 at Government College of Engineering, Kannur, Kerala.
- AICTE-Faculty Development Program on “*Spotlight on Risk Management of Chemical Plants/Oil Refineries*” from 27th April to 9th May 2009 at Amal Jyothi College of Engineering, Kanjirappally, Kerala.
- Three-day workshop on “*ANSYS 10.0*” by Intercad Institute Pvt.Ltd at LBS College of Engineering Kasaragod on March 2009.
- Staff Development Program on “*Simulation Software and Loco Engineering*” from 27th to 28th March 2009 at LBS College of Engineering Kasaragod, Kerala.

- Short term course on “*Teaching Excellence and Methodologies*” organized by ISTE, Kerala section from 27-06-2005 to 02-07-2005 at Vidya Academy of Science & Technology, Thrissur, Kerala.
- Induction Training Program for the Faculty at LBS College of Engineering Kasaragod from 16th to 18th January 2008.
- Two-day Workshop on *Matlab* from 23rd to 24th February 2005 at LBS College of Engineering Kasaragod, Kerala.

LIST OF EXPERT TALK:

- Delivered an expert talk on “*Fundamentals of Engineering Mechanics*” on 8th & 10th February 2017 at College of Engineering Trikaripur, Kerala.

ADMINISTRATIVE WORKS:

- Class Advisor, BTech Mechanical Engineering (2012-2016 Batch), from 2012 to 2016, LBSCE Kasaragod.
- Class Advisor, BTech Mechanical Engineering (2015-2019 Batch), from 2016 to 2019, LBSCE Kasaragod.
- Convenor, orientation program for first year students and parents, 2015-2016 Batch, from 3-07-2015 to 5-07-2015 at LBSCE Kasaragod.
- Secretary, Staff club for the period 2014-2015, LBSCE Kasaragod.
- Resident Tutor, Men’s Hostel III, from 2014-2016, LBSCE Kasaragod.
- Chief Superintendent of Kerala PSC Examinations, 2017-2018, LBSCE Kasaragod.
- Assistant Chief Superintendent of Examinations, Kannur University, 2014-2019, LBSCE Kasaragod.
- Deputy Warden, College Hostels, 2016-2019, LBSCE Kasaragod.