

CURRICULUM -VITÆ

Dr. SYED ABBAS ALI

(+91-9651511742)



Educational Qualifications

Ph. D. (Mechanical Engineering)

Awarded

Institute: Motilal Nehru **National Institute of Technology (NIT)** Allahabad, Allahabad-211004, UTTAR PRADESH, INDIA

M.Tech (Machine Design)

9.52

College : Basaveshwar Engineering College, Bagalkot.

University: Visveswaraiiah Technological University, Belgavi, KARNATAKA, INDIA

B.E. (Mechanical Engineering)

College : Basaveshwar Engineering College. Bagalkot.

University: Visveswaraiiah Technological University, Belgavi, KARNATAKA, INDIA

Experience

Teaching

- ❖ Worked as Assistant Professor in Department of Mechanical Engineering, SECAB Institute of Engineering and Technology, Vijayapura.
- ❖ Working as Associate Professor & Head in Department of Mechanical Engineering, SECAB Institute of Engineering and Technology, Vijayapura from August 2015 to Till date.

Administration at institute level

- ❖ Head, Department of Mechanical Engineering, SECAB Institute of Engineering and Technology, Vijayapur, KARNATAKA, India.

- ❖ Member, College Development Committee, SECAB Institute of Engineering and Technology, Vijayapur, KARNATAKA, India.
- ❖ Chairman, Project Evaluation Committee, Dept. of Mechanical Engg., SECAB Institute of Engineering and Technology, Vijayapur, KARNATAKA, India.
- ❖ Coordinator, Student Project Program, Karnataka State Council for Science and Technology (KSCST), 41st Series, Govt. of Karnataka, Bengaluru.

Research Areas of Interest

- ❖ Spark Ignition Engine (Modelling, Identification and Control)
- ❖ Synthesis of Mechanisms
- ❖ Artificial Intelligence based Techniques in IC Engines.
- ❖ Performance of IC Engine using nonmaterial based biodiesel

Interesting Subjects

- ❖ Internal Combustion Engines
- ❖ Machine Design
- ❖ Control Engineering (ME & EEE)
- ❖ Neural Network & Fuzzy Logic

Subjects Thought

- ❖ Theory of Machines
- ❖ Machine Design (I&II)
- ❖ Mechanical Vibrations
- ❖ Control Engineering
- ❖ Dynamics of Mechanism Design (PG)
- ❖ Experimental Mechanics (PG)

Laboratory handled

- ❖ Design Lab (UG & PG)
- ❖ Workshop
- ❖ Machine Shop
- ❖ Foundry & Forging Lab
- ❖ IC Engine lab

Publications

Journals (National and International)

- ❖ Syed Abbas Ali and Samir Saraswati, "A comparison of sliding mode and FRF based observers for cylinder pressure estimation of SI engine" Transactions of the Institute of Measurement and Control, SAGE Publications. Vol. 39, No. 2, pp. 163–172, 2017 (SCI Journal).
- ❖ Syed Abbas Ali and Samir Saraswati, "Cycle-by-Cycle estimation of IMEP and peak pressure using crankshaft speed measurements" Journal of Intelligent & Fuzzy Systems, IOS Publisher. Vol. 28, pp. 2761–2770, 2015 (SCI Journal).
- ❖ Syed Abbas Ali and Samir Saraswati, "Cycle-by-Cycle estimation of cylinder pressure and indicated torque waveform using crankshaft speed fluctuations" Transactions of the Institute of Measurement and Control, SAGE Publications. Vol. 37, No. 6, pp. 813–825, 2015 (SCI Journal).
- ❖ S. G. Sarganachari, V. B. Math and Syed Abbas Ali, "Synthesis of planar six-bar mechanism for function generation: A variable topology approach" International Journal of Applied Engineering Research (IJAER), Vol. 5 No. 3, pp. 471–476, 2010. ISSN 0973-4562
- ❖ S. G. Sarganachari, B. K. Belleri, V. B. Math and Syed Abbas Ali, "Optimal synthesis of crank-rocker mechanism for specified rocker amplitude and time ratio" International Journal of Applied Engineering Research (IJAER), Vol. 5, No. 12, pp. 2039–2048, 2010. ISSN 0973-4562
- ❖ Dilip Sutraway, Syed Abbas Ali, Altaf Hussain Bagwan and Shashikant Nimbalkar, "Effect of fuel injection timing on performance of CI engine using (SIMAROUBA) biodiesel as a fuel" Journal of Automotive Engineering & Technology.
- ❖ Dilip Sutraway, Shashikant Nimbalkar, Syed Abbas Ali, Altaf Hussain Bagwan and Manjunath Satpute, "To Investigate the Performance and Emission Characteristics of CI Engine Using Mustard Oil Biodiesel as Fuel" Journal of Emerging Technologies and Innovative Research, Vol. 4, No. 9, pp. 2039–2048, 2017. ISSN 2349-5162.
- ❖ Altaf Hussain Bagawan, Syed Abbas Ali, Dilip Sutraway, Mohammad Shakir M Attar, Syed Sameer Hussain "Performance Analysis of CI Engine using WCO as Biodiesel"

International Journal of Current Engineering And Scientific Research (IJCESR), Vol. 1, No. 11, pp. 1-5, 2017. ISSN 2393-8374.

- ❖ Ajitnath P, Syed Abbas Ali, Altaf Hussain Bagawan, Mohammad Shakir M Attar, "Experimental investigation of tensile properties of bamboo reinforced epoxy composites" International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), Vol. 6, No. 15, 2017. pp. 179-188.
- ❖ Zyur Rahaman, Syed Abbas Ali, Asif Iqbal, Syed Sameer Hussain, Mahammadrafeeq Manvi, "Experimental Investigation of Bending Properties of Carbon Fiber Reinforced Epoxy Composites" International Journal of Mechanical And Production Engineering, ISSN: 2320-2092, Vol. 5, No. 11, 2017. pp. 1-5.
- ❖ Syed Sameer Hussain, Syed Abbas Ali, Sunil Thaned, Altaf Hussain Bagawan "Influence of Injection Pressure on The Performance of CI Engine Using Waste Cooking Oil as a Fuel" International Journal of Mechanical And Production Engineering, ISSN: 2320-2092, Vol. 5, No. 11, 2017. pp. 11-14.
- ❖ Syed Abbas Ali and Samir Saraswati, "Estimation of emissions using cylinder pressure derived parameters" Fuel Journal, Elseveir Publishers (Communicated) (SCI Journal).
- ❖ Syed Abbas Ali and Samir Saraswati, "A FRF based observer for cylinder pressure estimation of spark ignition engine" Expert Systems with Applications, Elseveir Publishers (Communicated)(SCI Journal).
- ❖ Syed Abbas Ali and Samir Saraswati, "Methods to reconstruct cylinder pressure using crankshaft speed fluctuations" International Journal of Vehicle Autonomous Systems, Indercience Publication (Communicated).

Conferences (National and International)

- ❖ Zyur Rahaman, Syed Abbas Ali, Asif Iqbal, Syed Sameer Hussain, Mahammadrafeeq Manvi, "Experimental Investigation of Bending Properties of Carbon Fiber Reinforced Epoxy Composites" International Multidisciplinary Conference on Emerging Trends in Engineering, Science and Technology (ImcETEST-2017), Rungta College of Engineering and Technology, Bhillai-495224, CHATTISGARH, India, December 23-24, 2017.

- ❖ Syed Sameer Hussain, Syed Abbas Ali, Sunil Thaned, Altaf Hussain Bagawan "Influence of Injection Pressure on The Performance of CI Engine Using Waste Cooking Oil as a Fuel" International Multidisciplinary Conference on Emerging Trends in Engineering, Science and Technology (ImcETEST-2017), Rungta College of Engineering and Technology, Bhillai-495224, CHATTISGARH, India, December 23-24, 2017.
- ❖ Ajitnath P, Syed Abbas Ali, Altaf Hussain Bagawan, Mohammad Shakir M Attar, "Experimental investigation of tensile properties of bamboo reinforced epoxy composites" A Two Day National Conference on Recent Advancements in Mechanical Engineering and Allied Fields-2017(RAMAEF-2017), Sir M. Visvesvaraya Institute of Technology, Bengaluru-562157, KARNATAKA, India, November 2-3, 2017.
- ❖ International Symposium on "Emerging Technologies for Sustainable Development" organized by Department of Mechanical Engineering, Basaveshwar Engineering College, Bagalkot-587103, KARNATAKA, INDIA. February 27-28, 2017.
- ❖ Syed Abbas Ali and Samir Saraswati, "Reconstruction of cylinder pressure using crankshaft speed fluctuations" IEEE International Conference on Industrial Instrumentation and Control-2015(ICIC-2015), College of Engineering Pune, Maharashtra, India, May 28-30, 2015. DOI: 10.1109/IIC.2015.7150785
- ❖ Syed Abbas Ali and Samir Saraswati, "Identification of flame development and rapid burning angle for SI engine" 3rd IEEE student conference on engineering and systems (SCES-2014), Motilal Nehru National Institute of Technolgy Allahabad, Allahabd-211004, Uttar Pradesh, India. May 28-30, 2014. ISBN: 978-1-4799-4938-0, DOI: 10.1109/SCES.2014.6880105
- ❖ Syed Abbas Ali, V. B. Math, S. G. Sarganachari, "Synthesis of four bar double rocker mechanism for prescribed extreme position" National conference on Emerging Trends in a Engineering Technology and Applications (NCETETA-2009), Shirdi Sai Engineering College, Anekal, Bengluru, Karnataka, INDIA, April 29-30 2009.
- ❖ Syed Abbas Ali, V. B. Math, S. G. Sarganachari and C. M. Veerendrakumar, "Synthesis of adjustable planar four bar mechanism for function generation" International Conference on Advances in Mechanical Engineering (ICAME-2009), Sardar

Vallabhai National Institute of Technology (SVNIT), Surat, Gujarat, INDIA,
August 3-5, 2009.

Awards/Honors/Fellowships

- ❖ Recipient of “Distinguished Faculty Award” at SECAB Institute of Engineering and Technology, Vijayapur, KARNATAKA, India.
- ❖ Advisor for the project entitled “Design and Fabrication of Adjustable Multiseasonal Harvesting Machine” which was selected for the “BEST PROJECT OF THE YEAR AWARD” during Karnataka State Council for Science & Technology (KSCST) 41st series Project exhibition. [Govt. of Karnataka](#).
- ❖ Senior Research Fellowship (SRF), Department of Science and Technology (DST) New Delhi, [Govt. of India](#)
- ❖ MA National Senior Research Fellowship (MANSRF), University Grants Commission (UGC) New Delhi, [Govt. of India](#).
- ❖ MA National Junior Research Fellowship (MANJRF), University Grants Commission (UGC) New Delhi, [Govt. of India](#).

Professional Memberships

- ❖ Member, Society of Automotive Engineers.
- ❖ Life Member, Indian Society for Technical Education.
- ❖ Member, Institute for Exploring Advances in Science & Engineering.
- ❖ Member, International Association of Engineers.

Short term course/Workshops/Training Program Organized

- ❖ Coordinator for “A National Level workshop on Quadrotor” conducted by Department of Mechanical Engineering, SECAB Institute of Engineering and Technology, Vijayapura, KARNATAKA, INDIA. April 12-13, 2016.
- ❖ Coordinator for One Week National Level Workshop on “A LabVIEW- A hands on experience” conducted by Department of Civil, Mechanical, Electrical& Electronics and Electronics communication Engineering held at SECAB Institute

of Engineering and Technology, Vijayapura, KARNATAKA, INDIA. January 16-20, 2017.

- ❖ Coordinator for Workshop on “Introduction to MATLAB and SIMULINK environment and its applications to Engineering” organized by Department of Mechanical Engineering held at SECAB Institute of Engineering and Technology, Vijayapura, KARNATAKA, INDIA. March 29-April 02, 2018.

Short term course/Workshops/Training Program Attended

- ❖ Participated in Workshop on “NAAC’s Revised Assessment and Accreditation Frame Work” organized by SECAB Association’s A. R. S. Inamdar Arts, Science, Commerce College & PG Center for women, Vijaypur-586109, Karnataka, INDIA. July 29, 2018.
- ❖ Participated in Workshop on “GPUs Ignite Artificial Intelligence, Machine Learning and Deep Learning” organized by Department of Civil & Mechanical Engineering held at SECAB Institute of Engineering and Technology, Vijayapura, KARNATAKA, INDIA. February 06-10, 2018.
- ❖ Participated in Workshop on “Industrial Applications of FEA using ANSYS” organized by Department of Mechanical Engineering held at SECAB Institute of Engineering and Technology, Vijayapura, KARNATAKA, INDIA. March 21-25, 2018.
- ❖ Participated in Short Term Training Programme on “Finite Element Analysis Using ANSYS Software” organized by BLDEA’s V. P. Dr. PG Halakatti College of Engineering & Technology VIjaypur, KARNATAKA, INDIA. January 16-20, 2018.
- ❖ Participated in Faculty Development Programme on “Research Literacy and Trends in Scholarly Communications” Jointly organized by Library & Information Center & Department of Civil Engineering of BLDEA’s V. P. Dr. PG Halakatti College of Engineering & Technology VIjaypur, KARNATAKA, INDIA. January 23-28, 2017.
- ❖ Participated in One Week National Level Workshop on “A LabVIEW- A hands on experience” conducted by Department of Civil, Mechanical, Electrical & Electronics and Electronics communication Engineering held at SECAB Institute of Engineering and Technology, Vijayapura, KARNATAKA, INDIA. January 16-20, 2017.

- ❖ Participated in Indian Society for Technical Education (ISTE) approved short term training program (STTP) on “Optimization Techniques in Mechanical Engineering (OTIM-2016)” conducted by Department of Mechanical Engineering, N. B. Navale Sinhagad College of Engineering Solapur-413255, MAHARASHTRA, INDIA. December 26-30, 2016.
- ❖ Participated in Workshop on “E-Resources for Academic Excellence and Research” conducted by Department of Electrical & Electronics Engineering, Library & Information Center & BLDEA’s IEEE Student Branch of BLDEA’s V. P. Dr. PG Halakatti College of Engineering & Technology Vijaypur, KARNATAKA, INDIA. In collaboration with IEEE Bengaluru section & VTU Consortium, Belagavi, October 27, 2016.
- ❖ Participated in National Level Workshop on “Technology Advancements in Product Development” jointly organized by Department of Mechanical Engineering, Shetty Institute of Technology Kalaburagi and Atapa Technologies, Bengaluru, held at Shetty Institute of Technology Kalaburagi on October 07, 2016.
- ❖ Faculty development programme on “Innovative Product Design” conducted by Department of Mechanical Engineering, BLDEA’s V. P. Dr. PG Halakatti College of Engineering & Technology Vijaypur, KARNATAKA, INDIA. March 29- April 2, 2016.
- ❖ Training Programme on “DRE-Train the Trainer” conducted by Mechanical Engineering Department, N. K. Orchid College of Engineering & Technology Solapur-413255 in association with TATA Technologies Pune, MAHARASHTRA, INDIA. January 28-29, 2016.
- ❖ Faculty NBA Orientation Workshop on “Outcome Based Education” conducted by SECAB Institute of Engineering and Technology, Vijayapura, KARNATAKA, INDIA. January 18-23, 2016.
- ❖ Indian Society for Technical Education (ISTE) approved short term training program (STTP) on “Applications of Finite Element Methods in Engineering(AFEME-2016)” conducted by Department of Mechanical Engineering, N. B. Navale Sinhagad College of Engineering Solapur-413255, MAHARASHTRA, INDIA. January 4-8, 2016.
- ❖ Self financed short term course on “Matlab Based Optimization and Statistical Data

Processing" conducted by Mechanical Engineering Department, Motilal Nehru National Institute of Technology Allahabad, Allahabad-211004, UTTAR PRADESH, INDIA. June 12-17, 2015.

- ❖ Self financed short term course on "Digital Prototyping with Autodesk Tools-2015 conducted by Mechanical Engineering Department, Motilal Nehru National Institute of Technology Allahabad, Allahabad-211004, UTTAR PRADESH, INDIA, February 27- March 4, 2015.
- ❖ Self financed short term course on "Synthesis, Characterization and Applications of Nanomaterials" conducted by Mechanical Engineering Department, Motilal Nehru National Institute of Technology Allahabad, Allahabad-211004, UTTAR PRADESH, INDIA, July 7-12, 2014.
- ❖ Self financed short term course on "Applications of Artificial Intelligence Techniques in Engineering Systems-2013" conducted by Mechanical Engineering Department, Motilal Nehru National Institute of Technology Allahabad, Allahabad-211004, UTTAR PRADESH, INDIA, June 10-14, 2013.
- ❖ Faculty Development Programme on "Recent Developments in Tribology of Mechanical Systems" Supported and Catalyzed by Government of Karnataka, Vision Group on Science and Technology, Department of Information Technology, Biotechnology and Science and Technology, Visvesvaraya Technological University, Belgaum and organized by the Department of Industrial and Production Engineering, Basveshwar Engineering College, Bagalkot during 18th to 22nd December 2009.
- ❖ Attended and successfully completed software training course on "CATIA V5(R17)" at Swamy Design Solutions Pvt. Ltd. Bengaluru-560079, KARNATAKA, INDIA.
- ❖ Attended and successfully completed software training course on "HYPERMESH" at Swamy Design Solutions Pvt. Ltd. Bengaluru-560079, KARNATAKA, INDIA.
- ❖ Attended and successfully completed software training course on "ANSYS" at Swamy Design Solutions, Pvt. Ltd. Bengaluru-560079, KARNATAKA, INDIA.

Projects/Thesis (Guided/Guiding)

Supervision of Ph. D. Thesis: 03

Sl. No.	Candidate Name	Broad Research Area/Topic	Remark
1.	Mr. Altaf Hussain Bagwan	Performance Evaluation of IC Engine Using Biodiesel	Under Progress
2.	Mr. Syed Sameer Hussain	Applications of Nanomaterials in Biodiesel	Under Progress
3.	Mr. Md. Shakir Attar	Artificial Intelligence Techniques in IC Engine	Under Progress
4.	Mr. M. R. Manvi	Yet to define	Under Progress

Supervision of M. Tech. Thesis: 06

1. Mr. Ajith Nath Parigond on "Experimental Investigation of Tensile Properties of Bamboo Reinforced Epoxy Composites", awarded in 2017
2. Mr. Zyaur Rahaman on "Experimental Investigation of Bending Properties of Carbon Fiber Reinforced Epoxy Composites", awarded in 2017
3. Mr. Santosh Kumar "Design and FE Anlysis of Composite Mono Leaf Spring" awarded in September, 2018
4. Mr. Shabbir Ahmed "Dimensional Synthesis of Planar Mechanism: A Neural Network Approach" awarded in September, 2018
5. Mr. Akhib Javed Rajbahar "Development of Artificial Intelligence Based Model for Predicting Outputs in Planar Four Bar and Slider Crank Mechanism" awarded in September, 2018
6. Mr. M. S. Kaladagi "Development of Neural Network Model for the Determination of Dimensions of Four Bar Mechanism Using Output Angle" awarded in September, 2018

Supervision of B. E. Projects: 15 (10 Completed+05 Continuing)

Student Projects Sanctioned by Funding Agency

Sl. No.	Title of the Project	Funding Agency	Scheme
1.	"Performance Analysis and Comparative Study of CI Engine Using Straight Vegetable Oils (SVOs) "	<u>Govt. of Karnataka,</u> Karnataka State Council for Science & Technology, Govt. of Karnataka	Student Project Proposal-40 th Series (2016-17)
2.	"A Development of Virtual Sensors for Predicting IC Engine Exhaust Emissions"	<u>Govt. of Karnataka,</u> Karnataka State Council for Science & Technology, Govt. of Karnataka	Student Project Proposal-40 th Series (2016-17)
3.	"Enhancement in Design Specification and Fabrication of Portable Harvesting Machine for Multipurpose Crop"	<u>Govt. of Karnataka,</u> Karnataka State Council for Science & Technology, Govt. of Karnataka	Student Project Proposal-40 th Series (2016-17)
4.	"Design and Development of Aqua Silencer to prevent global warming"	<u>Govt. of Karnataka,</u> Karnataka State Council for Science & Technology, Govt. of Karnataka	Student Project Proposal-41 st Series (2017-18)
5.	"Design and Fabrication of Adjustable Multiseasonal Harvesting Machine"	<u>Govt. of Karnataka,</u> Karnataka State Council for Science & Technology, Govt. of Karnataka	Student Project Proposal -41 st Series (2017-18)
6.	"Energy-Exergy Analysis of CI Engine Fuelled with Rapeseed/Waste Cooking Oil based Biodiesel"	<u>Govt. of Karnataka,</u> Karnataka State Council for Science & Technology, Govt. of Karnataka	Student Project Proposal-41 st Series (2017-18)

Awards for Student Projects

Sl. No.	Title of the Project	Award Name	Institute/University/Conference
1.	Design and Fabrication of Adjustable Multiseasonal Harvesting Machine	Best Project of the Year 2017-18	Govt. of Karnataka. Karnataka State Council for Science & Technology, Govt. of Karnataka
2.	"Enhancement in Design Specification and Fabrication of Portable Harvesting Machine for Multipurpose Crop"	Best Funded Project of the Year 2016-17	SECAB Institute of Engineering and Technology, Vijayapur, KARNATAKA, India.

Referees

1. Dr. Samir Saraswati
Associate Professor
Mechanical Engineering Department
Motilal Nehru National Institute of Technology Allahabad
Allahabad-211004, UTTAR PRADESH, INDIA
2. Prof. (Dr.) K. N. Pandey
Professor
Mechanical Engineering Department
Motilal Nehru National Institute of Technology Allahabad
Allahabad-211004, UTTAR PRADESH, INDIA
3. Prof.(Dr.) Satish Chand
Director (Academics and Industrial Relations)
Vishweswaraya Group of Institutions
Dadri-203207, Greater NOIDA, INDIA
4. Prof.(Dr.) Noorullah Sharief
Principal
SECAB Institute of Engineering & Technology, Vijaypur-586109

Personal Information

Name : Dr. Syed Abbas Ali
Nationality : Indian
Languages known : Kannada, English and Hindi
Marital Status : Unmarried
Permanent Address : Dr. Syed Abbas Ali
S/o. Syed Mahiboob Ali
At: Jewargi (K), Tq: Jewargi-585310
Dist: KALABURAGI , KARNATAKA, INDIA
Mobile : +91-9651511742
E-mail : syed.abbasali86@gmail.com

Declaration:

I Dr. SYED ABBAS ALI hereby declare that all the above particulars furnished by me are true to the best of my knowledge and belief.

Place: KALABURAGI

Signature of Candidate

Date:

(Syed Abbas Ali)