** Bio-Data**

**Name:** Shashidhar M Banavasi

**Father’s Name:** Mayoor N Banavasi

**Date of Birth :** 06/08/1989

**Highest Qualification :** M.Tech by Research

**Adress for Communication :** Department of Metallurgical and Materials engineering

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**Objective** :

* Interested and passionable in gain and bringing out the knowledge by identifying challenging objectives for industrial solutions and to work on the area of high research gap in design and characterization of materials which will help in better understanding the areas to target and reach the technology in an economical way.
* Interseted in teaching graduate as well as post graduate students engineering students , empowering them in better understanding the subjects , maximum possible for better outcome through their projects and research activities.
* Ready to handle any challenging objectives in projects as well as research activities in the areas which i am handalable, which will motivate me as well as better part for the students in any part of the country.
* Work is worship

**Educational Qualification**:

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| --- | --- | --- | --- |
| Qualification | School/College | Year of Passing | Class Secured |
| SSLC | Don Bosco Institution  Sirsi | 2005 | First |
| Diploma (Mechanical) | R.N.S Polytechnic Sirsi | 2008 | First |
| B.E (Mechanical) | S.D.M.C.E.T Dharwad | 2011 | Distinction |
| M.Tech by Research  (Materials Engg) | N.I.T.K-Surathkal | 2017 | Awarded |

**Project work done during**

**Diploma:** Automatic Fuel economy warning sytem in automobiles.

**B.E** : Automatic water tap using photo sensor (Minor project)

: Finite element analysis of a class 300 ball valve (Industrial project, Supriya Prototech Hubli.(Major Project)

**Research study for M.Tech** **by research :**

* Design and Development of a rotating bending fatigue test set up at lower cost. (Self Funded)
* Influence of high Mn-Cu-Mo on microstructure and fatigue properties of Austempered ductile iron.

**Work/Training experience:**

* Worked as Part time lecturer in Government engineering college karwar and GSIT college karwar for academic 2012-2013.
* Attended the Indian Engineering Service Examination / Gate Technical training for 9 months at ACE academy Hyderabad-2011-12

**Subjects Thaught during Part Time Faculty:** Design of Machine elements 1 & 2,Basic Thermodynamics, Applied Thermodynamics, Manufacturing process , Heat and Mass Transfer, I.C engines , Automotive Engineering , Fluid Mechanics ,Kinemetics of machines , Dynamic of machines, Ansys Lab workshops and Machine shop .

**B.E Projects Guided** :

* Mechanism for board cleaning in schools and colleges. (Awarded best project by VTU Examiner)
* Pedal operated washing machine for govt engineering college hostel karwar.
* Indication for static overloading of vehicles.
* Design of pneumatic press which replaced Hydraulic press in Belgaum industries.
* Automatic speed control in vehicles built proto type.
* Dis-Assemble and Assemble of four stroke I.C engines.
* Box sorting machines for packing industries.
* Vegetables Seed dries using solar energy.
* Automatic tilting of solar panels using timing gear mechanism for maximum solar energy utilization.
* Design and kinematics of foot pedal for smaller air-crafts. (As a co-guide)
* Mechanically balancing of trolly trucks in mining zones.
* Design of bomb calorimeter for lab set up. (As a co-guide)
* Design and developed organic rankine cycle for small power generation. (As a co-guide)
* Convesrion of salt water to drinking water through multi stage. (As a co-guide)

**Awards:**

* Secured 1st prize in diploma examination at RNS polytechnic sirsi for academic 2008.
* Secured 3rd Prize for final year examination at SDMCET dharwad.
* Secured 2nd prize in National Tech fest for the presentation of B.E project at BVB hubli.
* Secured 2nd prize for the best project at SDMCET dharwad for the academic year 2010- 11.
* Secured 1st prize in Tech fest at SDMCET 2013 dharwad for presentation on Organic rankine cycle.

**Workshops:**

* Workshop on Thinklabs by IIT Bombay at SDMCET dharwad 2009.
* Workshop on Advanced Manufacturing at AITM bhatkal 2015.

**Conferences**

* International Symposium on “ Role of metals and materials” at N.I.T.K surathkal, Make in India , 2015.
* National conference on “ Recent trends in Mechanical and electrical engineering” at AITM Bhatkal, 2016.
* International conference on “Recent trend in advanced material, mechanical and civil engineering” MRIT Hyderabad, 2017
* National Conference on “ Advances in Mechanical Engineering” JNNCE Shimoga, 2018.

**Publication:**

* Shashidhar.M.Banavasi, Ravishankar K S, Padmayya S Naik. “ Influence of High Mn-Cu-Mo on Microstructure and Fatigue Properties of Austempered Ductile Iron” Institute of Physics, Material Science and Engineering, Volume 330 (2018). **(Scopus Indexed)**
* Shashidhar.M.Banavasi, Ravishankar K S, Padmayya S Naik. “ Microstructure and Tensile Characteristics of 1% Mn content on Austempered Ductile Iron” International Journal of Scientific and Engineering Research, Volume 9, Issue 5, May-2018. **(Thomson Reuters Indexed)**
* Shashidhar.M.Banavasi, Ravishankar K S, Padmayya S Naik. “A Review on Design and Fabrication of Fatigue Testing Machine” International Journal of Novel Research and Development, Volume 3, Issue 5, May 2018. **(Thomson Reuters Indexed)**
* Shashidhar.M.Banavasi, Ravishankar K S, Padmayya S Naik. “ Influence of High Mn-Cu-Mo on Microstructure and Fatigue Properties of Austempered Ductile Iron”. Extended Abstract, ResearchGate PDFhttps://www.researchgate.net>links>Ex..Shashidhar M Banavasi

**Under Review**

* Shashidhar.M.Banavasi, Ravishankar K S, Padmayya S Naik. “Design and Development of Organic Rankine Cycle” International Journal of Novel Research and Development. **(Thomson Reuters Indexed)**
* Shashidhar.M.Banavasi, Ravishankar K S, Padmayya S Naik. “ Effect of Machine Scatter on Rotating Bending Fatigue Life of Material” .Journal of Failure Analysis and Prevention. **(Elsvier)**

**Yet to register for PhD :Topic “** Design and Development of polymer composite material for Organic rankine cycle Turbine application” . Under Dr. Proff Padamyya S Naik AITM Bhatkal and Dr Ravishankar K S NITK surathkal.

**Research Area of Interest :**

* Design of fatigue testing machine for medium strength polymer composite.
* Effect of machine scatter on various mechanical testing machines and their characterization of materials.
* Polymer composite for leaf springs application.
* Alloying of ductile iron and their austempering effects on mechanical properties.
* Design and development of laboratory test set up for conducting experiments in areas of design and thermal engineering lab for B.E and M.Tech students.