

PROFILE

AYUSHI NAYAK

Assistant Professor

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Profile summary:

- **Silver medalist** with 95% in M.Tech Structural Engineering from SRM University, Chennai, T.N
 - **Research interest** in Steel Jackets and Offshore structure's design and its reaction with environmental forces (like wind and wave).
 - Significant knowledge of professional software like **SACS, STAAD Pro, AutoCAD, Revit Architecture, ANSYS, MS Excel** and other MS Office Packages.
 - Teaching experience of Civil Engineering subjects like **Design of Structure, Estimation and Costing, Surveying, Fluid Mechanics and Building Construction.**
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Area of Interest: Design and Analysis of Offshore Structure, Wind and Wave Analysis

Educational Qualification:

- **M.Tech** in Structural Engineering with 95 % from SRM University, Chennai, (T.N)
- **BE (Hons)** in Civil Engineering with 79 % from Chhattisgarh Swami Vivekanand Technical University, Bhilai, (C.G)
- HSC with 66 % from H.S.M Global Public School, Bilaspur, (C.G)
- SSC with 87 % from The Jain International School, Bilaspur, (C.G)

Professional Experience:

- **Assistant Professor (Feb 2020 – Present)** , Department of Civil Engineering, Guru Ghasidas University, Bilaspur, (C.G)
- **Guest Faculty (Aug 2018 – Jan 2020)** , Swami Vivekanand College of Agriculture Engineering and Technology and Research Station, IGKV, Raipur, (C.G)

Achievements:

- **Silver medalist**, in M.Tech- Structural Engineering, SRM Institute of Science and Technology.
- Awarded for **Best All Round Performance** in masters during academic year 2017-2018 by SRM Society of Civil Engineer.
- Nominated for **Student of the Year** award in bachelors of engineering for the session 2012-2016 in RCET, Raipur (C.G)
- **Academic topper** for the session 2014-2015 in BE Civil Engineering, RCET, Raipur

Administrative Responsibilities:

- Appointed as **Class Incharge** for third year students of B,Tech (Agriculture Engineering) for three consecutive session in Swami Vivekanand College of Agriculture Engineering and Technology and Research Station, IGKV, Raipur, (C.G)
- **Member of judging panel** for model making competition in workshop on “Our Biodiversity, Our Food, Our Health” in SVCAET, IGKV, Raipur, (C.G)
- Appointed as **Faculty Incharge** for preparation and execution of Inter College Youth Festival (Madai-2018) in SVCAET, IGKV, Raipur, (C.G)
- **Coordinator** for Smart Phone distribution programme for students under Sanchar Kranti Yojna Of State Government of Chhattisgarh held in SVCAET, IGKV, Raipur, (C.G)
- Appointed as **Recording Secretary** for the panel of American Society Of Civil Engineer, SRM Student Chapter for the session 2017-2018
- **Secretary** in SRM Society of Civil Engineer and SRM-ICI Student Chapter for academic session 2017-2018.

Certification:

- 40 Hours Training program of **ANSYS 14.0 Fundamentals** under Innovent Engineering, Bangalore, (KA)
- 44 Hours Training Program of **Revit Architecture- BIM** under Autodesk authorized Training Centre.
- 70 Hours Training Program of Professional **AutoCAD** under Autodesk authorized Training Centre.
- Bentley Institute Certificate of accomplishment for various online short duration training courses for **STAAD Pro** and **SACS** under Bentley Student Server

Workshop / Conference:

- Attended workshop on “**Offshore fixed and floating structures and integration of SACS/ MOSES/ MAXSURF Software**” in National Institute of Ocean Technology, Chennai (T.N)
- Attended hands on training workshop for 15 days on “**Practical method of design of R.C Building**” in SRM institute of Science and Technology, Chennai, (T.N)
- Paper Presentation in “**International Conference of Advance Scientific Innovation in Science Engineering and Technology**” (ICASSET 2018) in Bharat University, Chennai, (T.N)
- Organizing committee member in 2 days workshop on “**Construction Project Management**” conducted by Department of Civil Engineering and ASCE SRM Student Chapter, SRMIST, Chennai (T.N)

Publication:

- **Ayushi Nayak, G Augustine Maniraj Pandian**, “Parametric study of fixed Offshore platform under varying Jacket Configuration and Environmental loads” , International Journal of Pure and Applied Mathematics, Special Issue Volume 119 No. 15, 2018, 445-443.

Project work:

- “**Parametric study of fixed offshore steel structure under the action of wind and wave force**”, A hypothetical jacket was modeled for 3 leg configuration and vertical bays and analyzed in professional offshore software SACS for environmental forces from Bombay High, South Pars Field and Norwegian Continental shelf.
- “**Percentage replacement of aggregate with fly ash and brick ballast in M20 Concrete**” , Concrete cubes were casted and tested for different parameters by replacing aggregates in 0.5% ,1% ,1.5% amount.

Training:

- In Plant training under **Water Resource Department**, Bilaspur, (C.G) in July- August 2014
- Vocational Training of professional AutoCAD based on industrial project under **CAD Academy**, Bilaspur, (C.G)
- In plant training under **Water Resource Department**, Bilaspur, (C.G) in June- July 2015.
- One month internship under **Bhatia builders Pvt Ltd**, Bilaspur, (C.G) in May 2017