

# Dr.V.BalakrishnaMurthy



**Designation** : Professor  
**E-Mail ID** : vbkm64@vrsiddhartha.ac.in  
**Contact at** : Department of Mechanical Engineering,  
Velagapudi Ramakrishna Siddhartha School of Engineering,  
Siddhartha Academy of Higher Education,  
An Institution Deemed to be University,  
Kanuru, Vijayawada, Andhra Pradesh 520007.

## Education

---

### Ph. D. (Analysis of FRP Composite Structures)

2006, JawaharlalNehruTechnologicalUniversity, Hyderabad

### M.Sc.(Engg.)(MachineDesignandAnalysis)

1991, SambalpurUniversity, Burla

### B.Tech.(MechanicalEngineering)

1986, NagarjunaUniversity, Guntur

## Experience

---

Period	Designation	Institution/Organization
2010 –TillDate	Professor	VelagapudiRamakrishnaSiddhartha School of Engineering
2006-2010	Professor	P. V.P.Siddhartha InstituteofTechnology
2004-2006	AssistantProfessor	VelagapudiRamakrishnaSiddharthaEngineeringCollege
1999-2004	Sr. Lecturer	VelagapudiRamakrishnaSiddharthaEngineeringCollege
1991-1999	Lecturer	VelagapudiRamakrishnaSiddharthaEngineeringCollege

## Research Interests

---

### Broad Area of Research:

- FiniteElementAnalysis,
- AnalysisofFRP Composites
- StructuralandThermo-ElasticAnalysis
- DynamicAnalysis
- Fracture Mechanics

## Honors and Awards

- Best Teacher award by JNTUK, Kakinada for the year 2009-2010
- Best Researcher award by JNTUK, Kakinada for the year 2009-2010
- Awarded with Certificate of Appreciation by JNTUK, Kakinada for committed contribution in teaching and research for the academic year 2011-2012 on the occasion of 4th University Formation Day on 21-08-2012.
- Best Teacher award by Siddhartha Academy of General & Technical Education, Vijayawada for the year 2015.

## Courses Taught

- Engineering Mechanics
- Mechanics of Materials
- Fluid Mechanics
- Dynamics of Machines
- Hydraulic Machines
- Mechanical Vibrations
- Experimental Stress Analysis
- Computational Fluid Dynamics
- Engineering Graphics
- Kinematics of Machines
- Machine Drawing
- Machine Design
- Heat Transfer
- Finite Element Methods
- Mechanics of Composite Materials
- Fracture Mechanics

## Research Profile

### Publications

The recent publications and research contributions can be viewed from the following URLs

Google Scholar	<a href="https://scholar.google.com/citations?user=DNi768oAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=DNi768oAAAAJ&amp;hl=en</a>
Scopus	<a href="https://www.scopus.com/authid/detail.uri?authorId=55942874100">https://www.scopus.com/authid/detail.uri?authorId=55942874100</a>
ORCID	<a href="http://orcid.org/0000-0001-9750-5969">http://orcid.org/0000-0001-9750-5969</a>
ResearchGate	<a href="https://www.researchgate.net/profile/Balakrishna_Murthy">https://www.researchgate.net/profile/Balakrishna_Murthy</a>
LinkedIn	<a href="https://www.linkedin.com/in/v-balakrishan-murthy-20b34a8a/">https://www.linkedin.com/in/v-balakrishan-murthy-20b34a8a/</a>

### Recognized Research Supervisor

S.No.	Department	University
01.	Mechanical Engineering	Siddhartha Academy of Higher Education, An Institution Deemed to be University, Vijayawada.

### Funded Research Projects

Completed	09
On-going	03
Applied	00

S. No.	Type	Title	Status	Funding Agency	Amount (INR)	Duration
01.	Funded	Prediction of Mechanical Properties of Polymer Matrix FRP Composites with Imperfections using Micromechanical Finite Element Analysis.	Completed	AICTE – RPS (A)	5.5 lakhs	2 Years
02.	Funded	Fracture Analysis of Composite Rocket Motor Casing.	Completed	ASL, DRDO	9.92 lakhs	3 Years
03.	Funded	Analysis and Optimization of Mechanical Hardware of INS Mounted on a Bracket in a Space Vehicle.	Completed	RCI, DRDO	5.3 lakhs	1.5 Years
04.	Funded	Composite Flex Seal Design.	Completed	ANSP, DRDO	9 lakhs	1 Year
05.	Funded	Analysis and Fabrication of a Bracket of a Space Vehicle Using FRP Composite Material.	Completed	RCI, DRDO	8.9 lakhs	2 Years
06.	Funded	Hydrodynamic and Acoustic Analysis of Metallic and Composite Propeller.	Completed	NSTL, DRDO	6 lakhs	1 Year
07.	Funded	Health assessment of an old GFRP Shell.	Completed	NSTL, DRDO	16.93 lakhs	6 Months
08.	Funded	Design & Finite Element analysis of Airworthy composite container.	Completed	NSTL, DRDO	9.5 lakhs	1 Year
09.	Funded	Design and FE Analysis of a Composite Pressure Vessel.	Completed	CPC, ASL, DRDO	5 lakhs	1.5 Years
10	Funded	Design and Development of a Composite Tube.	On-going	HEMRL, DRDO	9.97 lakhs	2 Years
11	Funded	Optimization of Composite Stack of CPV and Modelling of Interlaminar debond using FEA.	On-going	CPC, ASL, DRDO	5.9 lakhs	5 Months
12	Funded	Design and Analysis of Indigenous Composite Structures	On-going	RAPS for DRDO	7.08 lakhs	1.5 Years

## Consultancy / Industry Projects

<b>Completed</b>	02
<b>On-going</b>	0
<b>Applied</b>	0

## Ph.D

Awarded	06
Guiding	01

## Invited Talks

No. of Invited Talks	50
----------------------	----

## Professional Development Activities - Participations

Faculty Development and Training Programmes (at least 5 Days)	06
International / National Level Seminars	00 / 10
International / National Level Conferences	100 / 74
Workshops	10
Instructor Led / Self-Paced Courses	4
Webinars	10

## Professional Bodies Membership Details

F-112679-9	Fellow of Institution of Engineers (FIE)
LM21440	Indian Society for Technical Education (ISTE)
LM-0600046	Condition Monitoring Society of India (CMSI)

(Dr.V.Balakrishna Murthy)

\*\*\*