

## **BIO – DATA**

Name in full : **Dr. Atluri Venkata Ratna Prasad**

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**Academic Qualifications** :

Degree	Year of passing	Board/University	Division/class	% marks/ CGPA
S.S.C.	1983	Board of Secondary Education, A.P.	First	81%
Intermediate	1985	Board of Intermediate Education, A.P.	First	80.8%
B.Tech(Mech)	1989	Acharya Nagarjuna University, A.P.	First with Distinction	80%
M.Tech(Mech Handling Sci. & Tech)	1991	I.I.T., Kharagpur	First	7.37
Ph.D.	2007	J.N.T.U., Hyderabad		

**Areas of Research:** Natural fiber Composite Materials, Nano Composites.

**Medals and Awards** : Received **Gold medals** at S.S.C. and Intermediate levels for securing highest marks. Recipient of **National merit scholarship** throughout the Educational career.

**Professional Experience : Teaching: 29.0 Years, Research: 17 years, Industry: 2 years**

S.No	Name of the Organization	Position held	Period (years)
1.	M/s Ashok Leyland Ltd., Chennai	Development Engineer	May 1991- Dec 1992
2.	V. R. Siddhartha Engineering College, Vijayawada, A.P.	As Lecturer, Sr. Lecturer, Asst. Professor & Professor	Dec 1992- August 2008
3.	-do-	Professor & HOD	September 2008- Feb 2015
4.	-do-	Principal	Since May 2014- till date

### **I Awards/Recognitions:**

1. Awarded with **CMI level 5** certificate in **Management and Leadership** by **CMI** (Chartered Management Institute), **UK** in **2019**.
2. Recognised "**MARGDARSHAK**" by AICTE to mentor institutions for accreditation by **NBA**, New Delhi.

3. Received **highest citations award** from “**Journal of Materials & Design**”(Elsevier) in **2015** and second time in **2017** for one of the papers published and placed in the cover page of the journal.
4. Received “**Outstanding contributor award**” as Reviewer in **2017** from **Journal of Industrial Crops & Products (Elsevier)**, Amesterdam, The Netherlands.
5. Recognized master trainer/Resource person, mentor and Evaluator for **National Board Accreditation (NBA)**, New Delhi, on **Outcome based Education** since 2012 and visited more than 10 institutions in the country.

## II Patents filed: 04

S.No	Patent Title	Reference No	Filing date/Status
1	Jowar-Polyester Composites	201641015439	03/05/2016, Published
2	IC Engine operative on Oxy-hydrogen	201641010976	10/11/2015, Published
3	Fully Biodegradable Composite Tooth Brush Handle	201941002325	18/01/2019, published
4	Phragmites Australis (PA) Fiber Reinforced Polyester Composites	201941001503	13/01/2019, Published

## III Faculty development :

No of Ph.Ds **awarded** as Supervisor : 3  
 No. of **Ph.D** students **supervising** as on date : 4  
 No. of **M.Tech Thesis** guided leading to publications in conferences/Journals : 18

## IV Projects/ Seminar/workshop/Conference Grants obtained:

### I. Projects:

S. No	Title of the Project	Funding Agency	Amount (lakhs)	Year & Period	Name of Co ordinator/PI	Status
1	Margdarshan	AICTE	25.0	2018-2021	Dr. A. V. Ratna Prasad & Dr D Rajeswara Rao	ongoing
2	Centre of Excellence in Composites	DST-FIST	40.00	2015-2020 (5 Years)	Dr. A. V. Ratna Prasad (PC)	ongoing
3	Experimental investigation of agro-waste fiber-nano clay reinforced composites - Mechanical & Thermal properties	UGC (MRP), New Delhi	11.76	2012-16 4 years	Dr. A. V. Ratna Prasad (PI)	completed
4	Fracture Analysis of 1M Composite Rocket Motor Casing	DRDO	9.92	2010-12 2 years	Dr. A. V. Ratna Prasad (Co-Investigator)	completed
5	Modernization of CAM Lab	AICTE, New Delhi	6.6	2012-13 1 year	Dr. A. V. Ratna Prasad (Coordinator)	completed
6	Modernization of Design and Instrumentation lab	AICTE, New Delhi	13.75	2 Years (2007-09)	Dr. A. V. Ratna Prasad (Coordinator)	Completed

Seminar/workshop/Conference Grants received (DST/AICTE): 03  
Seminar/workshop/Conferences organized: 07  
Invited Lectures: 08  
Session chairs/Resource person: 03

#### **V Best Practices introduced at Institute level as Principal:**

Some of the best practices implemented for betterment of Teaching – Learning & Research and recognition at national level since July, 2015 and the resulting outcomes are listed below.

1. College ranked at 141 in **NIRF** 2022 and is below 200 for the last 4 consecutive years in addition to good rankings given by various national survey agencies.
2. **National award** for the college for the best I-I-I in civil Engg and “**Platinum**” rating by AICTE – CII for 5 successive years (2017, 2018, 2019, 2020 & 2021).
3. **Autonomous** status extended for **10 years** up to 2027-28 by UGC without visit to the college.
4. Recognition of our college as “**Scientific and Industrial Research Organization**” (SIRO) by DSIR, Government of India.
5. Implementation of “**PBAS**” (Performance Based Appraisal System) to promote Quality of Teaching – Learning & Research. (College implemented since 2013 & NBA made it mandatory from 2016)
6. Establishment of 20+ **collaborative labs** and **COEs** in association with Govt and Industry such as “**Siemens Centre of Excellence**” IBM, CISCO, Dassault, Oracle, NI, DRDO, DST, etc.
7. Development of **Strategic plan** for the college 2015-2020 & 2020-2025 & implementation of strategic goals and review in each department & every Academic Year.
8. Implementation of “**Choice Based Credit System**” (CBCS) w.e.f. 2016-17 to offer flexibility for fast learners to carry out project work for full time in Industry.
9. “**Innovation & Incubation centres**” and **Project Rooms** set up in 2015 for bringing (NBA made it mandatory in 2016) & in all Depts.
10. “**Innovation Day**” through Promotion of exhibiting models developed by students with implementation of financial support from the college as a part of **Engineers Day and Dr.A.P.J. Abdul Kalam’s Birthday Celebrations**.
11. Induction of **adjunct faculty** from industry and R & D organizations to teach courses.
12. Formulation and implementation of **R & D policy** to enhance research culture among faculty & students for increasing innovative projects and research grants resulting in securing good ranking to the institute publications in indexed in scopus/wos increased from 75(2016) to 322 (2022).
13. Development and Implementation of **Academic Audit (external)** in each department in addition to Internal in every Academic Year.
14. Effective implementation of **TEQIP** activities as per the expectations of SPFU & NPIU & met the KPI’s above their target & obtained “A” grade to the college.
15. Question Paper setting (Internal & Semester end) based on Outcomes Based Education format & Blooms Taxonomy.
16. Filing of **patents** from all the departments increased from 1(2014) to 166(2021).
17. No. of **MOUs** made during 2014-17: 08, as on 2019-20: 60
18. Increase in number of companies for student “**Internships & Placements**” and significant improvements in placements from 600(2015-16) to 1350(2021-22) with high end packages from 10(2015-16) to 390(2021-22).

#### **VI Papers published: 65**

International / National Journals ( <b>SCI indexed with I.F &amp; Scopus</b> )	: <b>30</b>
International / National Conferences/others	35
No of citations (Scopus)	: <b>&gt;1000</b>

**No of citations (Google)**  
**h-Index (scopus)**

**: 1500+**  
**16**

The research publications are cited by researchers in more than **20 countries** across the world.

**Journals ( SCI & SCOPUS): 30**

1. S. Ravi Theja Reddy, **A.V. Ratna Prasad**, K.Ramanaiah, Tensile and flexural properties of biodegradable jute fiber reinforced poly lactic acid composites, *Materials Today: Proceedings* (**article in press** ). **SCOPUS**.
2. Ratna Kumari, K.Ramanaiah, **A.V. Ratna Prasad**, K. Hemachandra Reddy , Srinivas Prasad Sanaka , A. Kalyan Prudhvi, Experimental investigation of water absorption behaviour of sisal fiber reinforced polyester and sisal fiber reinforced poly lactic acid composites, *Materials Today: Proceedings* (**Proofs correction completed**), **Scopus**.
3. K. Ramanaiah, **A.V. Ratna Prasad**, K. Hemachandra Reddy, Experimental study on thermo physical properties of biodegradable borassus fruit fiber-reinforced polyester composites. *Materials Today: Proceedings* (**accepted for publication, 4<sup>th</sup> Dec 2020**), **Scopus**.
4. Gunti Rajesh, **A. V. Ratna Prasad** and A V S S K S Gupta, „Mechanical and Degradation properties of natural fiber reinforced PLA Composites: Jute, Sisal and Elephant Grass“, *Journal of Polymer composites*, **2016** (Wiley publishers)-**SCI** (I.F.2.324)
5. **A.V. Ratna Prasad**, K. Balakotesara Rao, K. Mohana Rao, K. Ramanaiah, S.P.Kumar Gudapati, “Influence of Nanoclay on the Mechanical Performance of Wildcane grass Fiber Reinforced Polyester Nanocomposites” *International journal of Polymer Analysis and Characterization*, Vol 20, pp 541-556, Aug 2015 (**Taylor & Francis**) (**I.F-1.412**)
6. Gunti Rajesh, **Atluri V. Ratna Prasad** and A V S S K S Gupta, "Mechanical and Degradation Properties of Successive Alkali Treated Completely Biodegradable Sisal Fiber Reinforced PLA Composites", *Journal of Reinforced plastics and composites*, Vol 34(12), 951-961, April 2015, (**I.F.- 1.188**)
7. Gunti Rajesh, **Atluri V. Ratna Prasad** and A V S S K S Gupta, „Preparation and properties of successive alkali treated completely biodegradable short jute fiber reinforced PLA composites“, *Journal of Polymer composites*, Feb 2015, DOI: 10.1002/pc.23395 (I.F.- 2.324)
8. Gunti Rajesh, **Atluri V. Ratna Prasad**, „Tensile properties of successive alkali treated short jute fiber reinforced PLA composites“, *Procedia Materials science*, vol 5, 2188-2196, 2014.(**Scopus**)
9. K.Ramanaiah, **A.V.Ratna Prasad**, K.Hema Chandra Reddy. “Fire properties of elephant grass fiber and glass fiber- Reinforced Polyester Composites”, *Int. Journal of Applied Mechanics and Materials*, Vol. 592-594, 2014, pp 380-384, Doi: 10.4028/www.scientific.net/AMM.592.594.380, (**Scopus indexed**)
10. K. Ramanaiah, **A. V. Ratnaprasad**, K. Hemachandra Reddy, Thermophysical and fire properties of vakka natural fiber reinforced polyester composites”, *Journal of Reinforced Polyester and Composites* (SAGE), Vol 32, Number 15, August 2013 (DOI: 10.1177/0731684413486366) (I.F.- 1.188)
11. K. Ramanaiah, **A. V. Ratnaprasad**, K. Hemachandra Reddy, “Mechanical, Thermo physical and fire properties of Sansevieria fiber-reinforced polyester composites”, **International journal of Materials & Design – Elsevier**, Vol 49: 986-991, Aug 2013.(I.F.- 2.913)
12. Gunti Rajesh, **Atluri V. Ratna Prasad**, Study on effect of chemical treatments and concentration of jute on tensile properties of long & continuous twisted jute/polypropylene composites” *International Journal of Advanced Materials Manufacturing & Characterization*, Vol 3, Issue 1, May 2013.

13. Gunti Rajesh, **Atluri V. Ratna Prasad**, „Effect of fibre loading and successive alkali treatments on Tensile properties of short jute fibre reinforced polypropylene composites“ *International Journal of Advanced Materials Manufacturing & Characterization*, Vol 3, Issue 2, Aug 2013.
14. **A. V. Ratna Prasad**, K. Mohana Rao, A. V. S. S. K. S. Gupta “Experimental investigation on the mechanical properties of golden cane fibre reinforced polyester composites” *International journal of Polymer Analysis and Characterization*, (Taylor & Francis) 18:1, 30-39, Feb 2013. (I.F-1.412)
15. K. Ramanaiah, **A. V. Ratna Prasad** & K. Hema Chandra Reddy, Mechanical and Thermo-Physical Properties of Fish Tail Palm Tree Natural Fiber–Reinforced Polyester Composites, *International Journal of Polymer Analysis and Characterization*(Taylor & Francis), 18:2, 126-136, 2013. (I.F- 1.412)
16. A. Gowthami, K. Ramanaiah, **A. V. Ratnaprasad**, K. Hemachandra Reddy, K. Mohana Rao, G. Sridhar Babu, “ Effect of silica on thermal and Mechanical properties of sisal fiber reinforced polyester composites” *Journal of Materials and Environment Science*, Vol 4 (2): 199-204, 2013.(Scopus)
17. K. Ramanaiah, **A. V. Ratnaprasad**, K. Hemachandra Reddy, “Thermo physical properties of elephant grass fiber reinforced polyester composites” *Journal of Materials Letters – Elsevier (International)*, Vol 89: 156-158, 2012.(I.F-2.30)
18. K. Ramanaiah, **A. V. Ratnaprasad**, K. Hemachandra Reddy, “Thermal and Mechanical properties of waste grass broom fiber-reinforced polyester composites”, *International journal of Materials & Design – Elsevier*, Vol 40: 103-108, 2012. (I.F.- 2.913)
19. K. Ramanaiah, **A. V. Ratnaprasad**, K. Hemachandra Reddy, “Effect of fiber loading on Mechanical properties of Borassus seed shoot fiber reinforced polyester composites” *International Journal of Materials and Environment Science*, Vol 3: (3): 374-378, 2012. (Scopus)
20. M. Mounika, K. Ramanaiah, **A. V. Ratnaprasad**, K. Mohana Rao, K. Hemachandra Reddy, “Thermal conductivity characterization of bamboo fiber reinforced polyester composites” *International Journal of Materials and Environment Science*, Vol 3:(6): 1109-1116, 2012. (Scopus)
21. K. Ramanaiah, **A. V. Ratnaprasad**, K. Hemachandra Reddy, “Thermal and Mechanical properties of Sansevieria Green Fiber Reinforcement” *International Journal of Polymer Analysis and Characterization*, (Taylor & Francis) vol 16:8, 602-608, 2011. (I.F-1.412)
22. K. Ramanaiah, **A. V. Ratnaprasad**, K. Hemachandra Reddy, “Mechanical properties and Thermal Conductivity of Typha angustifolia natural fiber reinforced polyester composites” *International Journal of Polymer Analysis and Characterization*, (Taylor & Francis) vol 16:7: 496-503, 2011. (I.F- 1.412)
23. **A. V. Ratna Prasad**, K. Mohana Rao, A. V. S. S. K. S. Gupta & B. V. Reddy “A study on the flexural behavior of Wild cane grass fibre reinforced polyester composites” *International journal of Material Science (Springer)*, U.S.A Vol 46:2627-2634, 2011. (DOI : 10.1007/s10853-010-5117-9) .(I.F.- 2.163)
24. **A. V. Ratna Prasad**, K. Mohana Rao, “Mechanical properties of natural fibre reinforced polyester composites: Jowar, sisal and bamboo” *International journal of Materials & Design – Elsevier*, Vol 32: 4658-4663, 2011. (I.F.- 2.913)
25. **A. V. Ratna Prasad**, K. M. Rao, K. M. M. Rao, “Fabrication and Testing of Natural fiber composites: Vakka, bamboo, Sisal & Banana” *International journal of Materials & Design (Elsevier)*, Vol 31:508-513, 2010. (I.F.- 2.913)
26. **A. V. Ratna Prasad**, K. Mohana Rao & G Nagasrinivasulu, “Mechanical properties of banana empty fruit bunch fiber reinforced polyester composites” *Indian journal of Fibre & Textile Research*, CSIR, New Delhi Vol 34, pp 162-167, 2009.(I.F.- 0.486)

27. **A. V. Ratna Prasad**, K. M. M. Rao, K. M. Rao & M. Anil kumar, “Flexural properties of Rice Straw reinforced polyester composites”, **Indian Journal of Fibre and Textile research ( CSIR )**, New Delhi, Vol 31, pp 335-338, 2006. .(I.F.- 0.486)
28. **A. V. Ratna Prasad**, K. M. M. Rao, K. M. Rao & A. V. S. S. K. S. Gupta, “Effect of fiber loading on mechanical properties of arecanut fiber reinforced polyester composites” **National Journal of Technology**, Coimbatore, India, Vol 2, No 1, pp 56-62, 2006.
29. **A. V. Ratna Prasad**, K. M. M. Rao, K. M. Rao & A. V. S. S. K. S. Gupta, “Tensile and impact properties of Rice straw-polyester composites”, **Indian journal of Fibre & Textile Research, CSIR**, New Delhi, Vol 32, pp 399-403, 2007. .(I.F.- 0.486)
30. K. M. M. Rao, **A. V. Ratna Prasad**, K. M. Rao & A. V. S. S. K. S. Gupta, “Tensile properties of Elephant Grass fibre reinforced polyester composites” **International journal of Materials Science, U.S.A**, Vol 42:3266-3272, 2007. .(I.F.- 2.163)

**VII. As Reviewer: 25 Journals (Mostly SCI/Scopus indexed)**

Journal of Bio-Resources Engg, Polymer Testing, ASTM journal of Testing & Evaluation, Journal of Thermoplastic composite Materials, Journal of Industrial Crops and Products (Elsevier), Indian Journal of fiber & Textile research, Journal of Waste and Biomass Valorization (Springer Publishers), Journal of Advances in Mechanical Engineering, Journal of Fatigue (Elsevier), International Journal of Sustainable Built Environment (Elsevier), Journal of „Material letters“(Elsevier), Journal of Sustainable Cities and Society (Elsevier), Journal of Composite Interface (Taylor & Francis), International “Journal of Polymer Engineering, International Journal of “Polymer Composites”, International Journal of “Reinforced Plastics and Composites” (Sage Publications), International Journal of “Materials and Design” (Elsevier publishers), etc.

Place : Vijayawada  
Date : 24-08-2022

( **Dr A V RATNA PRASAD** )