# VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

## KNOWLEDGE ASSET 2021-22

Please update the profile as per the following instructions:

- Brief profile should be given.( project : Mention the Title, objective & Out Come)
- Do not delete any criteria instead mention it as Nil or Not Applicable
- Do not add any photographs other than the passport size photo.

Name: Dr. TALLURI SUNIL KUMAR
Designation: PROFESSOR
Department: CSE- (CYS, DS, AI&DS)
Mail I'd: sunilkumar_t@vnrvjiet.in

Experience (in years): 22     Teaching:     22     Research:     12     Others (if any, specify):NA

AICTE Id: 1-464122787

Date of Birth:11/07/1973

## 1. Educational / Technical qualifications:

| S.No | Level (UG / PG / Ph.D) | Year of passing | Specialization |
|------|------------------------|-----------------|----------------|
| 1 | B.Sc. (M.P.C) From ANU | Mar-1997 | Maths, Physics and Chemistry |
| 2 | M.C.A From JNTU-H, Hyd | Mar-2000 | Computer Applications |
| 3 | M.Tech (CSE) From OU, Hyd | Mar-2007 | Computer Science and Engineering |
| 4 | Ph.D. (CSE) From JNTU-A, ATP | June-2017 | Computer Science and Engineering |

## 2. Teaching and Learning:

2.1. Teaching Interests:

DATA SCIENCE, MACHINE LEARNING, DATA ANALYTICS, CLOUD COMPUTING, DISTRIBUTED COMPUTING, DATA MINING and INFORMATION RETRIEVAL

**PG:**

Distributed Computed, Advanced OS, Data Warehousing and Data Mining, Web Services and Service Oriented Architecture, Code of Ethics, Object Oriented Modelling, RM & IPR.

**UG:**

Design and Analysis of Algorithms, Operating Systems, Computer Networks, Computer Organization and Architecture, Unix and Windows NT, C Programming, Advanced Databases, R Programming, Python, Programming, UML, OOAD, DS.

2.2. Novel Teaching & Learning Techniques adopted:
- ✓ WIT&WIL,
- ✓ LBD,
- ✓ Chalk Talk,
- ✓ POGIL
- ✓ Power Point Presentations (PPTs)
- ✓ Computer Aided Teaching (Online Classes)

2.3. Involvement in curriculum updating / Design:

| |
|---|
| Zonal Commander for Zone-7 (a,b,c,d,e) for COVID-19 prevention and mitigation |
| In-Charge for Adjunct/Visiting Faculty in the Department, since 2007-Till date |
| Member Board of Studies (BOS) Committee in the Department |

## 3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies:
- ✓ Reading Books
- ✓ Singing
- ✓ Learning New Technologies

3.2. CCA/ECA Organized:
- ✓ Convergence
- ✓ Open House
- ✓ Sintillauntz
- ✓ Cultural Day
- ✓ Annual Day
- ✓ Sports Fest

3.3. CCA/ECA participated:
- ✓ Sintillauntz
- ✓ Cultural Day
- ✓ Annual Day
- ✓ Sports Fest
- ✓ Convergence
- ✓ Open House

3.4. Counselling and Mentoring Activity:

3.5. Committees involved in:
Department level:
Institute Level:

| S.No. | Academic / Administrative Responsibility | Institute / Department | Work involved | Period |
|---|---|---|---|---|
| 1 | Chairman Canteen Committee | Institute | 1) Overall canteen development and monitoring the quality and availability | June-2019 to till date |
| 2 | Co-Ordinator Industry Institute Partnership Cell, (IIPC) | Institute | 1)Managing student Trainings 2) Industrial Visits Guiding M. Tech & B. Tech Students for their projects | Since March 2015 to till date |
| 3 | Faculty Co-Coordinator for Adjunct/Visiting Faculty | Department | Active Participation for Smooth conduction of an event | Since 2015 Till Date |

| 4 | Faculty Coordinator for Show and Tell | Department | Active Participation for Smooth conduction of an event | Since 2015 Till Date |
|---|---|---|---|---|
| 5 | Project Committee Member | Department | Active Participation for Smooth conduction of an IV Year Projects | Since 2015 Till Date |
| 6 | Faculty Coordinator for Thrivon (Students Mental Wellness Programme) By Ms. Nitya Kanuri from Stanford University, USA. | Institute | Active Participation for Smooth conduction of an event | Since 2015 Till Date |
| 7 | Member Library Committee, VNRVJIET | Institute | Active Participation for Smooth conduction of an event | March 2015 – Till Date |
| 8 | Member, Discipline committee, VNRVJIET | Institute | Active Participation for Smooth conduction of an event | July 2015- till date |
| 8 | Faculty Coordinator for "Data Science Center of Excellence" | Department | Instrumental to establish a Center of Excellence in Data Science | Since 2015 Till date |
| 9 | Faculty Coordinator for M. Tech CSE | Department | Instrumental in Running the course smoothly and looks after all academic and administrative needs of M. Tech CSE Course | Since 2017 Till date |

## Conference / Workshop / Seminar / Guest Lectures:
4.1 Conducted:

| S. No | Type of the program | Name of the program | Lecture Topic | Duration | venue | Organized by |
|---|---|---|---|---|---|---|
| 1 | Induction Programme | Freshers' Orientation | Bring out the best in you | 6 hours | VNRVJIET | CSE Dept of VNRVJIET |
| 2 | R Training | II B Tech CSE students | Introduction to R software | 60 hours | VNRVJIET | CSE Dept |
| 3 | M Tech (CSE&SE) Orientation Programme | M.Tech (CSE&SE) | Bring out the best in you | 6 hours | VNRVJIET | CSE Dept of VNRVJIET |

| S. No. | Nature of Contribution | Details of associated Organization / Journal / Conference etc. | National / International | Date / Duration |
|---|---|---|---|---|
| 1 | Organizing Committee for the ICACECS | VNRVJIET | International | 2020-21 |
| 2 | Organizing Committee for the ICACECS | VNRVJIET | International | 2019-20 |
| 3 | Reviewer for the International Conference | MLR IT- Hyderabad | International | 2018-19 |
| 4 | Session Chair at IEEEPS-2018 | VNRVJIET | International | 2018-19 |

4.2 Attended:

| S.No. | Programme | Duration | Organized by |
|---|---|---|---|
| 1 | AICTE Sponsored two-week Refresher course on "Recent Trends in Cloud Computing" | 14 Days | VNRVJIET |
| 2 | Distributed Computing Course | 7 Days | IUCEE-CVR College |
| 3 | Cloud Computing | 7 Days | C-DAC-Hyderabad |
| 4 | Natural Language processing NLP | 7 Days | MeitY, ICT |
| 5 | Introduction to R Software Training Course | 3 Months | CSE Dept of VNRVJIET |
| 6 | FDP on Block chain Technology | 1 Week | CSE Dept of VNRVJIET |
| 7 | FDP on Hadoop by NLP NIT-Patna | 1 Week | NIT-Patna |
| 8 | FDP on Python | 1 Week | NIT-Patna |
| 9 | FDP on Quantum Computing | 1 Week | NIT-Jaipur |

| S. No. | Nature of Contribution | Details of associated Organization / Journal / Conference etc. | National / International | Date / Duration |
|---|---|---|---|---|
| 1 | Organizing Committee for the ICACECS-2021 | V N R V J I E T | International | 2020-21 |
| 2 | Organizing Committee for the ICACECS-2020 | V N R V J I E T | International | 2019-20 |
| 3 | Reviewer for the International Conference | MLR IT- Hyderabad | International | 2018-19 |
| 4 | Session Chair at IEEEPS-2018 | V N R V J I E T | International | 2018-19 |
| 5 | Organizing Committee for the ICECIT-2015 | | International | 2015-16 |
| 6 | Organizing Committee for the NNCC-2015 | | International | 2015-16 |
| 7 | Organizing Committee for the InDaS-2014 | V N R V J I E T | International | 2014-15 |
| 8 | Organizing Committee for the ICACM-2013 | G R I E T | International | 2013-14 |
| 9 | Organizing Committee for the IEEE-2012 (T4U) | IIT-Hyderabad | International | 2012-13 |

**5. Academic Contribution and Research & Consultancy:**

5.1. Invited Lectures:

| S.No. | Title of Lecture/ Academic Session | Title of Conference / Seminar etc | Organised by | Whether International/ national |
|---|---|---|---|---|
| 1 | Distributed Computing | National Seminar | Vidhya Jyothi Institute of Technology and Management | National |
| 2 | Session Chair in ICACECS-2020 | International | VNRVJIET | International |
| 3 | Session Chair in AICC-2018 at MLRIT | International Conference | MLRIT, Dundigal | International |
| 4 | Introduction to R software | VNRVJIET II CSE Students Training | CSE Dept of VNRVJIET | National |
| 5 | I B. Tech Induction Programme | Institute Level | H & S Department | Institute level |
| 6 | I M. Tech (CSE & SE) Orientation Programme | Institute Level | CSE Department | Institute Level |

5.2. Articles / Chapters published in Books:

| S.No. | Title with page nos. | Book Title, editor & publisher | ISSN/ISBN NO. | Whether peer reviewed | No. of Co-authors | Whether you are the main author |
|---|---|---|---|---|---|---|
| 1 | Scope of blockchain in education sector | DTS 5.0 (Disruptive Technologies For Society 5.0: Exploration of New Ideas, Techniques, and Tools) | NA | Yes | 2 | No |

5.3. Books published as single author or as editor: NA
5.4. Projects Guided:
a) UG:    b) PG:

| S. No. | M.Phil. or equivalent Ph.D. or equivalent | Number Enrolled | Thesis Submitted | Degree awarded |
|---|---|---|---|---|
| 1 | II M Tech Major Projects | 18071D5806 | An Information Extraction System For Automatic Retrieval Of Web Documents Using Semantic Analysis | Dec-2020 |
| 2 | II M Tech Major Projects | 17071D5805 | Machine Learning Algorithms to Ensemble the Classifiers For Diabetic Retinopathy | Feb-2019 |
| 3 | II M Tech Major Projects | 16071D2507 | Video face recognition using Autoencoder and softmax classifications | Nov-2019 |
| 4 | II M Tech Major Projects | 15071D2509 | Development of an Authentic and Anonymous Data sharing using Ring signature | Jan-2018 |
| 5 | II M Tech Major Projects | 14071D2504 | A Cost Efficient Multi Cloud Data Hosting Scheme with High Availability in Heterogenous Multi-Cloud | Mar-2016 |
| 6 | II M Tech Major Projects | 13071D2511 | Scalable Keyword search on Large Resource Description Framework Using Backward Technique. | Jul-2015 |
| 7 | II M Tech Major Projects | 11071D2504 | A Smart Phone Based Application For Analysing Incidents and Vehicle Tracking System | Jul-2013 |
| 8 | II M Tech Major Projects | 12071D2503 | Coupling Of Obd2 Using Bluetooth To Enhance Route & Safety Tracking Capabilities | Aug-2014 |

5.5. Research Interests:
DATA SCIENCE, MACHINE LEARNING, DATA ANALYTICS, CLOUD COMPUTING, DISTRIBUTED COMPUTING, DATA MINING and INFORMATION RETRIEVAL.

5.6. Ph.D. students: NA
a) Enrolled:         b) Submitted:         c) Awarded:

5.7. Papers published in reviewed journals:

| S.No | Title of the Paper | Journal Name Vol.No. PP | ISBN/ISSN No. | Impact Factor/ Citation Index | National/ International |
|------|---------------------|--------------------------|----------------|-------------------------------|--------------------------|
| 1 | Machine Learning Algorithms to Ensemble the Classifiers for Diabetic Retinopathy | JARDACS | ISSN 1943-023X | 0.13 H-Index 17 SCOPUS SJR | International |
| 2 | Image retrieval based on hybrid features | ARPN Journal of Engineering and Applied Sciences | VOL. 12, NO. 1, JANUARY 2017ISSN 1819-6608 | Peer Reviewed | International |
| 3 | Image Information Retrieval based on Edge Responses, Shape and Texture Features using Datamining Techniques | Global Journal of Computer Science and Technology: FGraphics & Vision | Online ISSN: 0975-4172 & Print ISSN: 0975-4350 | Peer Reviewed | International |
| 4 | Region Based Integrated Approach for Image Retrieval | Graphics, Vision and Image Processing Journal | ISSN 1687-398X, Volume 16, Issue 3, ICGST LLC, Delaware, USA, Dec. 2016 | Peer Reviewed | International |
| 5 | Content based image retrieval using multi region features | Journal of Theoretical and Applied Information Technology | ISSN: 1992-8645 www.jatit.org E-ISSN: 1817-3195 | Peer Reviewed | International |
| 6 | Multi-Cloud system in the Dynamic Environment Data Hosting Scheme as Cloud with Access Control Model | INTERNATIONAL JOURNAL OF EMERGING TECHNOLOGY AND ADVANCED RESEARCH IN COMPUTING | IJMTARC – VOLUME – IV – ISSUE - 15 - SEPT 2016 ISSN: 2320-1363 | Peer Reviewed | International |
| 7 | Dealing with concept drifts in process mining using event | Internal Journal of Engineering and | IJECS– VOLUME – IV | Peer Reviewed | International |

| | | | | | |
|---|---|---|---|---|---|
| | logs | Computer Science (IJECS) | – ISSUE - 07 - JULy 2015 **ISSN: 2319-7242** | | |
| 8 | Development of an Authentic and Anonymous Data Sharing Using Ring Signature | International Journal of Research (IJR) | e-ISSN: 2348-6848 p-ISSN: 2348-795X Volume 05 Issue-01 January 2018 | Peer Reviewed | International |
| 9 | A Three Level Framework for Secured Cloud Computing | International Conference on Systemics, Informatics and Cybernetics (ICSCI -2012) | **CI-7.6** | Peer Reviewed | International |
| 10 | Innovative Methods for teaching Computer Graphics | FACAF 2009 | | Peer Reviewed | International |
| 11 | A Survey on Open issue of MapReduce in Big Data | IJCSC-2018 | Vol 9 (1) Pp 170-174 Publisher: Computer Science and Electronic Journal Publication ISSN:0973-7391 | Peer Reviewed | International |

5.8. Papers presented at National / International Journals :

| S. No | Title of the Paper | Names of the Conference/ Seminars | ISSN/ ISBN No | National/ International | Period |
|---|---|---|---|---|---|
| 1 | A Three Level Framework for Secured Cloud Computing | International Conference on Systemics, Informatics and Cybernetics (ICSCI -2012) | CI-7.6 | **National** | |
| 2 | Innovative Methods for teaching Computer Graphics | FACAF 2009 | Conference Proceedings | **National** | |

5.9. Sponsored research Projects:

| S.No | Title | Agency | Period | Grant/ Amount Mobilized (Rs. Lakh) | Whether policy document/ patent as outcome |
|---|---|---|---|---|---|
| 1 | Driving Simulator for Indian Environment | AutoSim (Norway) and X-Design Ventures Pvt. Ltd. | 2 Years | 75.98 | Completed<br><br>Product delivered |
| 2 | Mobile Driving Simulator for Indian road Environment | Drive Logics and X-Design Ventures Pvt. Ltd. | 2 Years | 75.98 | Completed<br><br>Product delivered |
| 3 | Testing Thrive-On Mental Wellness Program | Stanford School of Medicine Stanford university USA | 1 year | 150,000-00 | Completed<br><br>Online Survey conducted and analyzed Students Mental Stress levels |
| 4 | Industry Institute Partnership Cell (IIPC) | AICTE,New Delhi | 2 years | 11,00,000-00 | Completed<br><br>Industry Interactions conducted |
| 5 | Technophilia Systems-CRESE | Technophilia Systems-Mumbai | 1 Year | 1,50,000-00 | Completed<br><br>Robotic Projects Implementation |
| 6 | Big Data Analytics using R Language | M/s Abacus India Pvt. Ltd, USA | 1 Year | 5,84000-00 | Completed<br><br>R Language Training and Students Projects |

5.10 Consultancy Projects:

| S. No | Title | Agency | Period | Grant/Amount Mobilized (Rs Lakh) |
|---|---|---|---|---|
| 1 | Skill and Personality Development Centre for SC/ST Students | AICTE-SPDP | 3 Years (2018-21) Ongoing | 15,63,000-00 |
| 2 | Design of Hybrid Data Mining techniques for effective retrieval of information from cloud-based Applications | UGC-Minor | 2 Years Completed | 80,000-00 |

| S.No | Title | Agency | Period | Sanctioned Amount | Ongoing / Completed |
|---|---|---|---|---|---|
| 1 | Big Data Analytics using R Language | M/s Abacus India Pvt. Ltd, USA | 1 Year | 5,84000-00 | Completed<br><br>R Language Training and Students Projects |

## 6. Awards / Honors received:

### NPTEL/MOOCs/Certificate Courses in Mezzanine Technologies

- ✓ R Programming Certification from N P T E L
- ✓ Python Programming,
- ✓ Data Science
- ✓ Quantum Computing Udemy online course
- ✓ A Certificate of Appreciation from UNIK life for Organizing a Creative Minds workshop.
- ✓ A letter of appreciation for 100% pass percentage of academic results
- ✓ A letter of Appreciation to the valuable and dedicated contribution to AICC-2018

## 7. Motto:
Happy to accept change, awaken myself to explore new-found possibilities, "I am a river, and able to cut through the pitch of every hard moment" to create my plan ahead to help others for the advancement of Academics and Research.

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