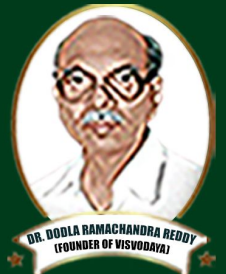




PBR VISVODAYA INSTITUTE OF TECHNOLOGY AND SCIENCE

KAVALI, NELLORE (Dist.)



DR. DOOLA RAMACHANDRA REDDY
(FOUNDER OF VISVODAYA)

ECLECTIC Newsletter

VOLUME 05

JAN - JUN 2021

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Editorial Board Members

Editor-in-Chief

Dr.V Madhusudhan Reddy
Professor Head of Dept., EEE

Faculty Editors

Mr.Ch.Srinivasulu Reddy, Assoc. Professor
Mr.A.BhakthaVastala, Assoc. Professor

Student Editors

MADDELA MADHURI (17731A0234)
KORTHA EBINAZER (18731A0215)



Department of Electrical & Electronics Engineering

ECLECTIC

NEWSLETTER

JAN - JUN 2021

EDITORIAL BOARD

EDITOR-IN-CHIEF

Dr.V Madhusudhan Reddy
Professor Head of Dept., EEE

FACULTY EDITORS

Mr.Ch.Srinivasulu Reddy, Assoc. Professor
Mr.A.BhakthaVastala, Assoc. Professor

Student Editors

MADDELA MADHURI (17731A0234)
KORTHA EBINAZER (18731A0215)

INSTITUTE: VISION & MISSION

Vision of the Institute:

To be a premier center of learning in Engineering and Management education that evolves the youth into dynamic professionals with a social commitment

Mission of the Institute:

M1: To provide quality teaching- learning practices in engineering and management education by imparting core instruction and state-of-the-art infrastructure.

M2: To engage the faculty and students in acquiring competency in emerging technologies and research activities through Industry Institute Interaction.

M3: To foster social commitment in learners by incorporating leadership skills and ethical values through value-based education

EEE
PBRVITS

DEPARTMENT OF ELECTRICAL &
ELECTRONICS ENGINEERING

DEPARTMENT PROFILE

The Department of Electrical and Electronics Engineering was established in 1998 with the approval of the All-India Council for Technical Education (AICTE). The Department of Electrical and Electronics Engineering (EEE) is one of the oldest department in the institution, spanning 25 years of existence, and offers the undergraduate program B. Tech-EEE (and one post-graduate program, Power Electronics). The department has qualified and experienced faculty and excellent infrastructural facilities. It is well equipped with laboratories, audio-visual facilities, and software tools such as Multisim, MATLAB, and Pspice.

We also take up the social responsibility of inculcating awareness about energy conservation by promoting programmes about the same. Collaboration with industries for timely amendments of curriculum and laboratories is another credential of the department. The long-term goal of the department is to develop a centre for research and development activities in the thrust areas of solar and wind energy. The main objective of the department is to provide a better solution for industrial problems and to carry out academic and sponsored research projects.

The department is committed to providing students with exposure to state-of-the-art technologies by signing a Memorandum of Understanding (MoU) with reputed companies. The students exhibit their co-curricular and extra-curricular skills through the activities of the EEE student association and other student exhibition platforms. The Department of Electrical Engineering is committed to excelling in Electrical and Electronics Engineering through education and research with well-qualified and experienced faculty and technical staff members.

DEPARTMENT: VISION & MISSION

Vision:

“To be recognized for producing meritorious electrical engineers with research proficiency and Social commitment”.

Mission:

M1: Impart quality education with practice-based learning in producing electrical engineers with ethical values.

M2: Encourage the faculty and students to acquire mastery in cutting edge technologies.

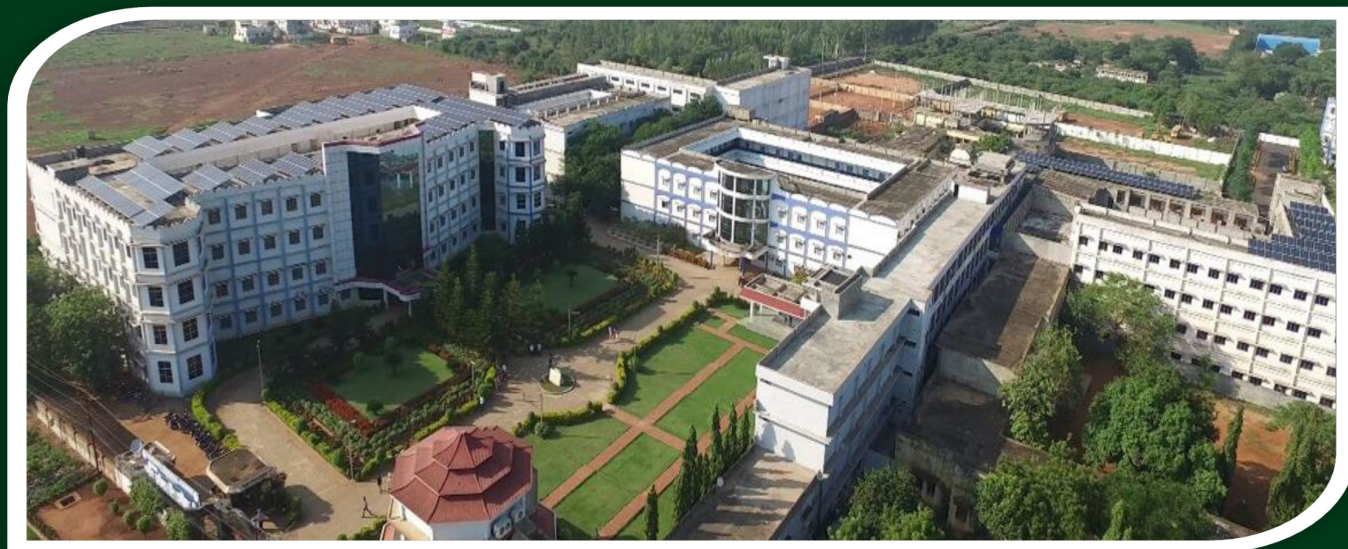
M3: Implement research activities with social commitment.

PROGRAM EDUCATIONAL OBJECTIVES

PEO-I : Acquire a profound knowledge for a successful career in electrical engineering and allied fields.

PEO-II : Pursue higher education and involve in research activities of electrical and electronics engineering.

PEO-III: Exhibit intellectual skills ethically and pursue life-long learning with social Commitment.



PROGRAM OUTCOMES (POs)

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO-1 : Analyze industrial electrical challenges by applying knowledge fundamental electrical circuits, electronics and drives.

PSO-2 : Apply standard practices in electrical power and control systems with safety and societal considerations.

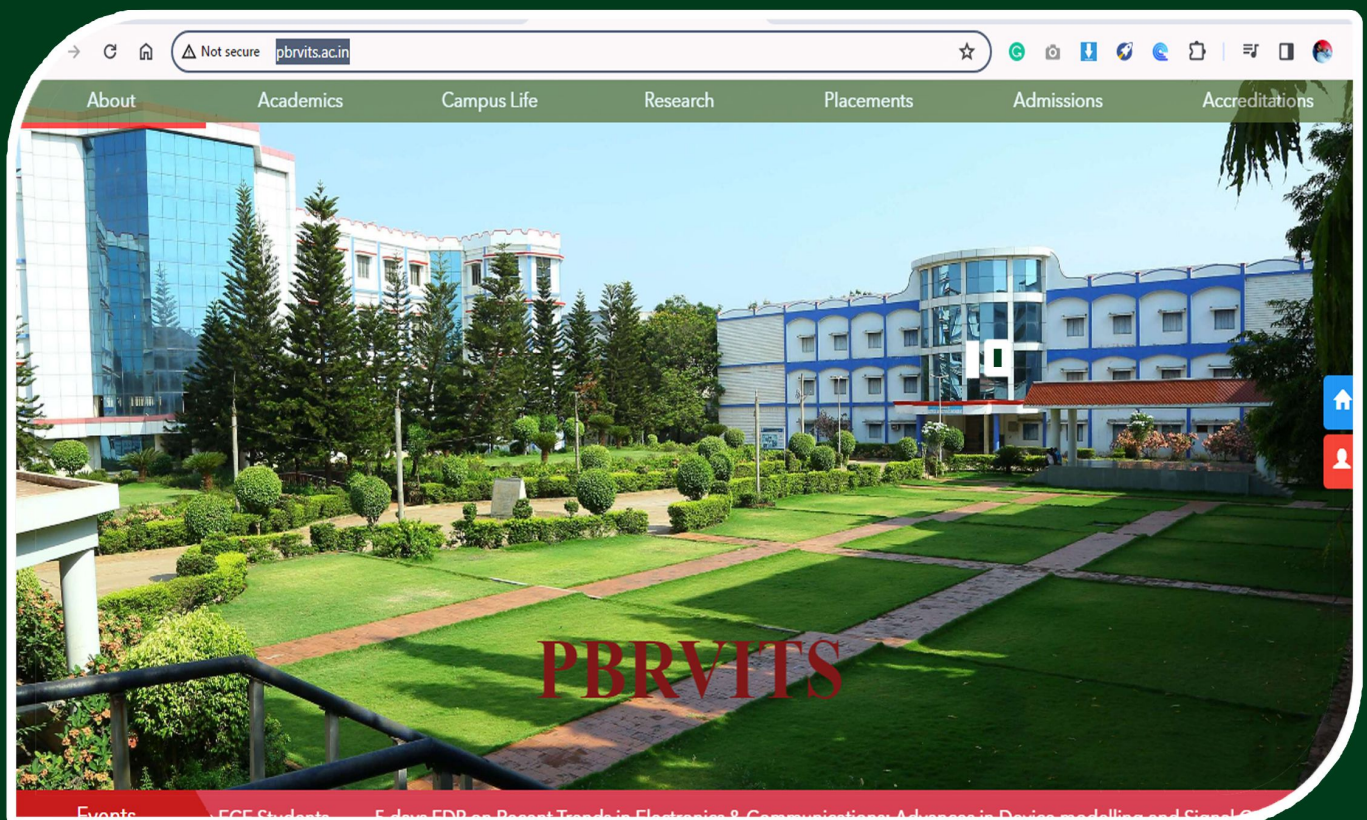
P.B.R. VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE



EEE

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

College Website: www.pbrvits.ac.in



PROFESSOR DESK



Welcome to the Department of Electrical and Electronics Engineering, PBR VITS, Kavali, Andhra Pradesh. As a well-known fact, we cannot imagine the world without electricity. The Department of Electrical and Electronics Engineering is a center of pre-eminence where we nurture young talents by imparting technical training to them so that they can take up the challenges of real world. The Department of Electrical and Electronics Engineering was established in the year 1998 with an objective to develop professionals through quality education with an intake of 60 students.

The B. Tech and M. Tech programs are designed to achieve a balance between depth of knowledge acquired through specialization and breadth of knowledge gained through exploration. The courses offered by the department provide a comprehensive foundation in the core topics of EEE coupled with an area of specialization relevant to emerging engineering challenges.

The faculty in the department is a rich blend of personnel with industrial and professional experience. The dedicated staff members have sound knowledge in emerging areas like power systems, power electronics, and control engineering, etc. The breadth and depth of the research interests of the academic staff ensures a high standard of lecture courses and provides excellent opportunities for challenging and stimulating final year projects. All faculties supplement their delivery using videos, animations overhead projectors. The faculty keeps up with the latest technologies by publishing in reputed journals and presenting at various national and international conferences.

The department is active in organizing the various workshops and seminars for the growth and development of faculty and students' research knowledge further. Our department students are also highly encouraged to implement their innovative research ideas with the help of the expert faculty members and the available standard lab facilities in the department.

“Education can be a powerful weapon to change the world”

**Dr.V.Madhusudhan Reddy,
Professor & HOD, EEE.**

FACULTY DETAILS

S.No.	Name	Designation	Qualification
1	Dr V MADHU SUDANAREDDY	Professor	ME/M. Tech and PhD
2	Dr C. RAJASELVAM	Professor	ME/M. Tech and PhD
3	CH SRINIVASULU REDDY	Assistant Professor	M.E/M.Tech
4	A BHAKTHAVACHALA	Assistant Professor	M.E/M.Tech
5	M SREENU	Assistant Professor	M.E/M.Tech
6	Y DAVIDU	Assistant Professor	M.E/M.Tech
7	T HARI BABU	Assistant Professor	M.E/M.Tech
8	P RAJYALAKSHMI	Assistant Professor	M.E/M.Tech
9	V MASTHANIAH	Assistant Professor	M.E/M.Tech
10	S MUNIRAJA	Assistant Professor	M.E/M.Tech
11	G VENGALARAO	Assistant Professor	M.E/M.Tech
12	G SUMAN	Assistant Professor	M.E/M.Tech
13	M GIRIBABU	Assistant Professor	M.E/M.Tech
14	CH SWAPNA	Assistant Professor	M.E/M.Tech
15	G HARIBABU	Assistant Professor	M.E/M.Tech
16	Y SIVA PRASAD	Assistant Professor	M.E/M.Tech
17	P ANIL KUMAR REDDY	Assistant Professor	M.E/M.Tech
18	B MADHAVA	Assistant Professor	M.E/M.Tech
19	M VENKATESH	Assistant Professor	M.E/M.Tech
20	M BHASKAR BABU	Assistant Professor	M.E/M.Tech
21	V GOWRISPANDANA	Assistant Professor	M.E/M.Tech
22	I J ABHISHITHA	Assistant Professor	M.E/M.Tech
23	K HARSHAVARDHAN REDDY	Assistant Professor	M.E/M.Tech
24	P VENKATESWARLU	Assistant Professor	M.E/M.Tech
25	S. AMALA	Assistant Professor	M.E/M.Tech

FACULTY PUBLICATIONS

S. No.	Title of paper	Name of the author/s	Name of journal	ISSN number
1	Sub-synchronous Oscillation in DFIG and SVG: Coordinated Damping Optimization Control	CH.SRINIVASULU REDDY	IJMMSA	ISSN:0973-8355
2	ISAR imaging at high resolution in the bistatic radar receiver canted region	Y.SIVA PRASAD	applied laser	ISSN:1000-372X
3	Brushless DC motor speed regulation with a fuzzy PID controller	P.ANIL KUMAR REDDY	hms	ISSN:1300-669
4	ECG Task Performance Tuning and IoT Data Compression Optimization Through Dynamic-Deep Learning	M.GIRI BABU	IJESR	ISSN:2277-2685
5	Problems with Sustainable Development Education	G.VENGALA RAO	IJESR	ISSN:2277-2685
6	Authentication of Data at Every Stage a Deep Learning Model for Protecting Internet of Things Setups	G.SUMAN	IJESR	ISSN:2277-2685

7	Using the MATLAB R Audio System Toolbox™ to Improve a Real-Time Audio Laboratory	CH.SRINIVASULU REDDY	IJBAR	ISSN:2249-3352
8	Architecture for Fault-Tolerant Embedded Systems	Y.SIVA PRASAD	IJBAR	ISSN:2249-3352
9	Using Internet of Things Data to Boost CRM	Y.SIVA PRASAD	HMS	ISSN:1300-669
10	Histopathological Breast Cancer Image Analysis Using Deep Learning	V.MASTHANAI AH	HMS	ISSN:1300-669
11	Clock gating and a carry select adder are the foundations of this low-power aluminized copper oxide (Alu) design.	T.HARI BABU	JBST ONLINE	ISSN:0976-0172
12	Using the Internet of Things to Create a Feminine Safety Device	S.MUNIRAJA	JBST ONLINE	ISSN:0976-0172
13	The Development of an Efficient Approximate Multiplier Using Rounding Techniques	P.RAJAY LAKSHMI	jcs journal	ISSN:9726-001X
14	An Introduction to Distributed Intelligence and Its Use in Multi-Robot Systems	M.SRINU	jcs journal	ISSN:9726-001X
15	Electrical Power Traction Line Fault Localization	V.MASTHANAI AH	jcs journal	ISSN:9726-001X
16	Sub-synchronous Oscillation in DFIG and SVG, Controlled by Cooperative Damping Optimization	V.MASTHANAI AH	jcs journal	ISSN:9726-001X

ACADEMIC TOPPERS

Heartiest Congratulations to the Toppers the Management, Principal, Faculty & Students of EEE Dept., are happy to congratulate the students for proving their excellence in the University Examinations for the A.Y. 2020-2021 Sem-II conducted by JNTUA, Anantapur.

(I B. TECH, II-SEM, 2019BATCH)

I B. Tech, II-Sem				
S. No	Roll Number	Name	Percentage	Rank
1.	19731A0247	K. ANUSHA	88.1%	I
2.	19731A0232	SK. JAKEE SHARIF	88.11%	II
3.	19731A0212	D.ABHINAYA	87.88%	II

(II B. TECH, II-SEM, 2018 BATCH)

II B. Tech, II-Sem				
S. No	Roll Number	Name	Percentage	Rank
1	18731A0224	MUSUNURUSANKEERTHANA	87.7%	I
2	18731A0216	K. VIJAYALAKSHMI	84.8%	II
3.	18731A0240	Y. TEJA	84.3%	III

(III B. TECH, II-SEM, 2017 BATCH)

III B. Tech, II-Sem				
S. No	Roll Number	Name	Percentage	Rank
1	17731A0215	CH. MANJUSHA	83.37%	I
2	17731A0228	K. LAKSHMI KALYANI	78.5%	II
3.	17731A0240	M.SAI BHAVANI	78.3%	III

(IV B. TECH, II-SEM, 2016 BATCH)

IV B. Tech, II-Sem				
S. No	Roll Number	Name	Percentage	Rank
1	16731A0225	DEVALLA SUMA	92.88%	I
2	16731A0209	SHAIK SOFIYA	89.33%	II
3.	17735A0216	KHAMBHAM SWETHA	87.7%	III

CERTIFICATE COURSE

CERTIFICATE COURSES SUMMARY AY:2020-21

Academic Year & Batch	Dates of conduct ion	Name of the Certificate course	Year s of stu dy	Resource Person & Address	No. of students Participat ed	Durati on
2020-21	07-09-2020 To 11-09-2020	Introduction to Hybrid Electric Vehicles	IV B.Tech	Mr .U .V Sai Srinivas, Director of Operations, Emcore Technologies Pvt Ltd,Bangalore Mob:7624991436	19	30 Hrs
			III B.Tech		35	30 Hrs

EVENT REPORT

NAME OF THE EVENT: Certificate Course on “Introduction to Hybrid Electric Vehicles”

DATE OF EVENT : 07-09-2020 To 11-09-2020

TIME : 10:30 PM

VENUE : C-118, COTTON Block, PBR VITS

PARTICIPANTS : 54(III & IV EEE)

EVENT CO-ORDINATOR : G.Suman, Asst.. Professor, EEE

RESOURCE PERSON : Mr .U .V Sai Srinivas, Director of Operations, Emcore Technologies Pvt Ltd,Bangalore.

REPORT:

A Certificate Course on the topic “Introduction to Hybrid Electric Vehicles” was conducted by the department of EEE, PBR VITS, Kavali on 07-09-2020 To 11-09-2020. The resource person was Mr .U .V Sai Srinivas, Director of Operations, Emcore Technologies Pvt Ltd, Bangalore.

The programme started with an inaugural session at 10:00 AM in which the HoD of EEE Department Dr. V.Madhusudhan Reddy gave opening remarks about the event. Mr. V.Masthanaiah, Assistant Professor, Dept. of EEE introduced the Resource Person to the gathering, later the Resource person briefly presented the following deliberations.

- What is Hybrid Electric vehicles?
- Different types HEV
- Future of EV
- Architecture Innovations: Powering the Future of EVs
- Sustainable Materials for EV Manufacturing
- Safety and Regulations in EV Design

Students expressed their gratitude towards the resource person for knowledge which he shared. This lecture is interesting for the students and faculty members

OUTCOMES:

1. Students were briefed the upcoming Research issues in EV technology and the importance of Hybrid Electric Vehicles in various fields.
2. Students aware the various key note topics that include introduction to Electric Vehicles and the control strategies for the charging system in electric vehicles.



STUDENT INDUSTRY VISIT SUMMARY SHEET

Academic Year	Date of Visit	Class	Name & Address of Industry	No. of students	Relevance PO's & PSO's
2020-21	11/04/2021	II B.Tech., II sem	APGENCO, Nagarjuna sagar	40	PO1,PO2, PO3, PO5,PSO1

EVENT REPORT

NAME OF THE EVENT: Industrial Visit at “APGENCO Nagarjuna Sagar”.

DATE OF EVENT : 11-04-2021

TIME : 11:30 PM

VENUE : PBR VITS College

PARTICIPANTS : 70 (IV EEE)

EVENT CO-ORDINATOR : Y David & B Madhava, Asst. Profs in EEE

RESOURCE PERSON : R. Venkateswarlu, DE, APGENCO, Nagarjuna Sagar.

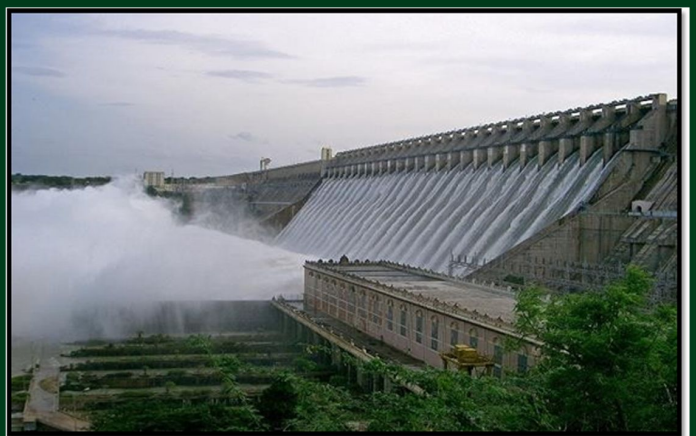
REPORT:

Department of Electrical Engineering PBR VITS has organized a Industrial Visit at APGENCO Nagarjuna Sagar on 11-04-2021. The resource person of APGENCO, Nagarjuna sagar has over 18 years of experience in APGENCO as Divisional Engineer (DE) in various power domains.

He shared his industry experience and explained in detailed about the Hydrel power plant and its working and functioning of each generator units in the plant to the students and explained the how much power flows in this plant daily nature in all conditions and he motivated the students to do the Internship certificate course also. Along with he also spoke on career perspective domains in electrical industries for the students.

OUTCOMES:

1. Students know the how to generate Electrical Energy in Hydrel Power Plant.
2. Students felt that, the role of each and every person had a responsibility to conserve the electrical energy for future generation.
3. Faculty are organized smoothly nature.



PLACEMENT SUMMARY

S.NO	Name of the Company	No. of students Placed	Salary per annum(lacks)
1	DXC Technologies	5	4
2	Infosys	1	3.60
3	Wipro	9	4
4	TCS	1	3.30
5	Mindtree	1	4
6	Quest global	7	3.0
7	SL LUMAX	14	2.25
8	TVS Sundaram	16	2
9	US Metrix Lab	7	2.82
Total		61	



Udayagiri Road, Kavali
SPSR Nellore, AP - 524201

+91-8626242422

+91-8626243930

+91-8626240056

✉ contactus@visvodayata.ac.in