## **HEARTY WELCOME**

TO



## Hon'ble Chairperson and Members of NAAC peer team



A AVER A



Department of Instrument Technology AUCE, Andhra University, Visakhapatnam



- > Vision & Mission
- Department Profile/History/Achievement
- > Curricular Aspects
- > Teaching & learning
- **>** Research, Innovation and Extensions
- > Students support and Progression
- > Infrastructure and learning resources
- Governance, leadership and Management
- > Institutional values and best practices
- > Progressive Plan







Instrumentation Engineering department shall strive to act as a podium for the development and transfer of technical competence in academics, entrepreneurship and research in the field of Instrumentation Engineering to meet the changing needs of society.

The Department will strive to become a centre for excellence in the field of Instrumentation and Control Engineering to enrich the students with Quality Education and Contemporary Technologies to meet the global needs.

# MISSION



- To provide modular programmes from skill development to the research level.
- To impart education and training in innovative state-of-the-art technology in the field of Instrumentation Engineering.
- $\succ$  To promote holistic development among the students.
- To provide extension services to rural society, industry professionals, institutions of research and higher learning in the field of Instrumentation Engineering.
- To interact with the industry, educational and research organizations, and alumni in the fields of curriculum development, training and research for sustainable social development and changing needs of society.



## **QUALITY POLICY**

- Excellence in teaching, research and consultancy by:
  Imparting globally focused education
- Creating world-class professionals
- Establishing synergic relationships with industry and society
- Developing state of art infrastructure and well-endowed faculty
- Imparting knowledge through teamwork and incessant efforts.



## DEPARTMENT ACHIEVEMENTS (2017 – 2022) STUDENTS



FACULTY

- **≻ SFR** (~ 11:1)
- > PhDs awarded (36)
- FDPs / Workshops (24)
- > NPTEL & Coursera Courses (10)
- Publications (128)
- > Patents (10)
- > Awards (5)

- ≻ Admissions (99%)
- **> Results (95%)**
- Certification & Value added Courses (06) Participated Students (153)
- Placements (80%)
- ≻ Internships (54)
- > Higher Studies (9-11%)



# Infrastructural Highlights



Dept of Instrument Technology

E-Class Rooms: 04 Laboratories: 10 Research Labs: 02 Seminar hall: 01 Library and Reading Room: 01

















## **RESEARCH LABORATORY EQUIPMENT**









#### Name of the Equipment

RF and DC Sputtering Unit. Impedance Analyzer: PSM1735 LCR meter, Model: 4263B **Planetary Ball mill** Electron Beam Evaporation Unit. Muffle(Box) Furnace **BOD** incubator Chemical vapor deposition unit **Trinocular Microscope CX43 Binocular microscope Spin Coater BOD** Incubator stabilizer 50Lt. Nitrogen cylinders **Electronic Weighing Balance** Artix7 FPGA Kits Oxygen double stage regulator

Price ₹ 16,21,483.50 ₹ 11,08,380.00 ₹ 8,88,544.93 ₹ 7,16,625.00 ₹ 5,97,187.50 ₹ 3,10,537.50 ₹ 2,99,250.00 ₹ 2,32,004.50 ₹ 2,07,821.25 ₹ 99,849.75 ₹ 95,550.00 ₹ 93,477.02 ₹ 45,904.95 ₹ 39,175.50 ₹ 32,050.20 ₹ 12,669.93







# **Teacher's Profile**



#### List of Faculty

S.No.	Name	Designation	Qualification	Experience (Years)	y Specialization
1	<u>Prof. A. Bhujanga Rao</u>	Professor & BOS Chairman	Ph.D	33	Instrumentation
2	<u>Prof. Y. Srinivasa Rao</u>	Professor	Ph.D	17	Micro Electronics
3	<u>Prof. D. V. R.K Reddy</u>	Professor	Ph.D	17	MEMS and Nano Technology
4	<u>Prof. M. Ramesh Patnaik</u>	Professor	Ph.D	17	Industrial Process Instrumentation
5	<u>Dr. A. Kamala Kumari</u>	Associate Professor & Head of Department	Ph.D	17	Digital Systems and Computer Electronics
6	<u>Dr. Daisy Rani</u>	Associate Professor	Ph.D	17	MEMS & NEMS
7	<u>Dr. P. Swapna</u>	Associate Professor	Ph.D	17	MEMS & NEMS

## **List of Faculty**



S.No.	Name	Qualification	Specialization
8	Mr. B. Lakshmi Narayana Reddy	M.Tech.,	VLSI & Embedded Systems
9	Mr. K. Venu Gopal	M.Tech.,	Embedded Systems
10	Ms. Ch. Swathi	M.Tech.,	<b>Electronics Instrumentation</b>
11	Mr. B. Yakub	M.Tech.,	Embedded Systems
12	Mr. Kumar R.N.	M.Tech.,	Electronics and Nano Technology

## FACULTY CONTRIBUTION



- Ph.D.
- BOS Chairman
- Dean R&D



•

Prof. M. Ramesh Patnaik



- M.Tech., Ph.D.
- Warden



• M.Tech., Ph.D., PDF.





CEO, MITC, AP



M.Tech., Ph.D.

Prof. Y. Srinivasa Rao

Dr. A. Kamala

Kumari

.

- M.Tech., Ph.D. Head of the Department

Dr. P. Swapna

- M.Tech., Ph.D.
- Warden

Dept of

Instrument

Dr. A. Daisy Rani

### RESEARCH, INNOVATIONS AND EXTENSIONS



S. No.	Agency	Name of the Principal Investigator/ Co Investigator (if applicable)	Fund received (In Lakhs)	Type (Government/ Non- Government)	Duration
1	<u>UGC-SAP</u>	Prof. Koti Reddy	₹ 36	Government	2016 - 2021
2	DST-FIST	HOD, Dept. Instrument Technology.	₹ 87	Government	2018 - 2023
3	<u>MARGADARSHAN</u>	Prof. Koti Reddy	₹ 30.66	Government	2016 - 2019
4	WOMEN SCIENTIST (WOS – A)	Prof. Koti Reddy	₹ 22.9	Government	2017 -2020

### **PROJECT APPROVAL ORDERS**



DST - FIST

WOMEN SCIENTIST (WOS – A)



## RESEARCH, INNOVATIONS AND EXTENSIONS(Contd.,)

Faculty Research Status (2017 – 22)





#### **Sample Publications**



#### **Dept of** Instrument Technology

#### · · ISSN 1847-9286 Open Access www.jESE-online.org Original scientific paper Rice husk char as a potential electrode material for supercapacitors Venkata Naga Kanaka Suresh Kumar Nersu<sup>1,13</sup>, Bhujanga Rao Annepu<sup>1</sup>, Satya Srinivasa Babu Patcha<sup>2</sup>and Subhakaran Singh Rajaputra<sup>3</sup> <sup>1</sup>Department of instrument Technology, Andhra University College of Engineering (A), Visakhapatnam, Andhra Pradesh 530003, India

<sup>J</sup>ESE

ESE

Onen Access : ISSN 1847-9280

www.jESE online.orghttp://www.jese-online.org.

Visantippinnin, minum VTatelia 3JAAA, Intra "Center for Flowble Electronics: Department of Electronics and Communication Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram, AP, India "Centre for Advanced Energy Studies, Koneru Lakshmaiah Education Foundation, Vaddeswaram, AP, "Centre for Advanced Energy Studies, Koneru Lakshmaiah Education Foundation, Vaddeswaram, AP,"

Received: February 22, 2022; Accepted: March 28, 2022; Published: April 4, 2022

J. Electrochem. Sci. Eng. 12(3) (2022) 451-462; http://dx.doi.org/10.5599/jese.1310

execute Terrany 72, 7021. Acceptent Materia 74, 2027 (Mathidan April 4, 2027) Material Material Machine Carlos and Carlos Materials, 2027 (Mathidan April 4, 2027) Mathida Carlos Materials, 2020 (Mathida Carlos Mathida Carlos Ma

#### Keywords Biochar; carbon-SiO; composite; superhydrophilicity; carbon cloth; nanocomposite gel polymer electrolyte; electric double layer capacitor (EDIC)

introduction

Original scientific paper

http://dx.doi.org/10.5599/jese.1381

Recently, an exponential increase in demand for the design and development of novel ecofriendly energy storage systems has been witnessed for harvesting energy from renewable resources [1]. Energy storage devices like supercapacitors (SC3) are well known for their high specific spower, exceptional charge discharge capability and long life [2]. Types of SCs include electric double-

http://de.doi.org/10.5599/jeta 1310

J. Electrochem, Sci. Eng. 12(4) (2022) 787-797; http://dx.doi.org/10.5599/jere.1881

electrode material for supercapacitors

Corresponding author: <sup>10</sup> sures/hk834@gmail.com Received: May 16, 2022; Accepted: July 9, 2022; Published: July 25, 2022

Char of Tagetes erecta (African marigold) flower as a potential

benartment of Instrument Technology, Andhra University College of Engineering (A), sakhopatnam, Andhra Pradesh 530003, India Jentre for Advanced Energy Studies, Koneru Lakshmaiah Education Foundation, Vaddeswaram, AP,

India "Center for Flexible Electronics, Department of Electronics and Communication Engineering, Koneru Lakshmailah Education Foundatian, Vaddeswaram, AP, India

Abstract A char of Tagetes erecta flawers (TFC) was derived through simple thermal decomposition of

A che of Tapiets erest Jawar (TC) was drevel through single them all occupation of Japiers antick Jawar (TC) was drevel through single through Japiers Japiers and Japiers (TL) Physics Coleman Japiers (TL) approximately and the single strategies and th

Keywords Biochar; flowers waste; gel polymer electrolyte; electric double-layer capacitor (EDLC); carbon cióth; hydrophilkity

In India, nearly 300,000 hoctares are under floriculture producing nearly 3 million tons of flowers annually (as per National Horticulture Board of India statistics of 2018-2019), Flowers ike rose, marigoid (Tgetter erecto), Javime, hibicus, etc., are most commonly used in the preparation of

garlands, decoration of religious sites and statues during festivals, as well as offerings during

Venkata Naga Kanaka Suresh Kumar Nersu<sup>1,20</sup>, Bhujanga Rao Annepu<sup>1</sup>, Subhakaran Singh Rajaputra<sup>2</sup> and Satya Srinivasa Babu Patcha<sup>3</sup>



SN Applied Sciences

Optimized su erge current through ing systems [1], was hot spots reduce Optimized sun-pointing sensor with tracking contro parameter increases the tracking accuracy of the sun is

alivenkatarao@gmail.com, Swapna Peranal, provak, y20 alihanaman, Asilina Prakesh 100001 Inaka

The Applied Sciences (2020) 2 1479





Contern lists available at **Optical** Materials

Structural and optical analysis of film Sn<sub>6.3</sub>Pb<sub>93.7</sub> prepared from

Composing autor. E-mail obtener deliveration of the Work (V. Dad), which is 2000 in the original in the Personality

Insue - Verange to UNIT-Experime 2003 111-019 Received 29 November 2003; Accessed is revised form 12 December 2003; Accessed 14 December 2003 Analable solars - Janany 2003. 2005; SMO / © 2022 Blackier, K.V. All rights reserved.

Venkatarao Dadi, Ph.D., Dr. Swapna Peravali, Asst Professor

Department of Barranese Technology, A.U.C.M.N. Andres Desarrers, 520202, Andres Product, India

coarse Sn63Pb37

#### PPERM A novel appr technique Mona M. Jamjoom ...., Nagwan Abdel Samee <sup>1</sup>Operative & Barrous and Generation Engineering Adopt Institute of Technology and Neurgeneer, Nakul, AF322221, India <sup>3</sup>Operative of Constraints Technology, Nathan General, Ball Operative of Constraints Technology Research (Adda, 1990), Ball <sup>5</sup>Operative of Constraints (Adda Adopt Addpt Adopt A Reflering the starts $B_{02}B_{02}$ solitoring allow paths enhance to simulated pollution with rescaled load (FW) content and the start allow material of Sa-Pb comparison and in industric, using productions: applications: there allower analysis in the Hardbarenet pollution of the About Hardbarenet and the start and the start and the Hardbarenet pollution of Hardbarenet Pollution of the Hardbarenet Pollution of the Hardbarenet Pollution of the Hardbarenet Pollution of Hardbarenet Pollu <sup>1</sup> Department of Information Technology, Colling of Computer and Information Sciences, Process Knarels Inter Adulationum (Hormatio, F.G. Ann 1946), Rayall Carlos, Sandi Arabia ARTICLE INFO ABSTRACT Reywords Brain tamour detection Deep-learning algorithm High-grade glionia Semantic segmentation U-Net architecture <text><text><text><text> 1. Introduction High-Grade Glicena (HGG) romes

IETE Journal of Research

articite: B. Acertan Imnya, J. Anna Seeday, A. Joshy Yeals, Ferlandina Anamatricity, et Schman B. D., Yaman Kost Reddy (2012): Audimic (Habitola) Conto Barneler et for Disc Diffusion Test Using Image Segmentation, IETE Journal of Releasesh. DOI: 72003.2021.109230	
his article: https://doi.org/10.1980/03772063.2021.1969293	
Ished online: 07 Oct 2021.	
nit your anticle to this journal CP	
related activities Of	
Crossmark data 07	
Agi Teane A. Constainers of access and one can be front at Pages/Innexes EarthForlow: contraction/pournalt/information/pournalCode+0p/20	
Monetod Agest Previous et Commit 52 (2011) (sector	
Centents lists available at inconscients	
Biomedical Signal Processing and Control	
journal homegage: www.stativer.com/occavehoce	
oach for brain tumour detection using deep learning based	



17

#### **Research, Innovations and Extensions**



#### ACHIEVEMENTS



**2017-18 2018-19 2019-20 2020-21 2021-22** 

## **Research, Innovations and Extensions (Contd.,)**

**Patents published** 



Name of the Patentee	Patent Number	Title of the patent	Year of Award / published of patent
Prof.A.Bhujanga Rao	202241040734A	Artificial intelligence enabled Reconfiguration on chip(SOC) Architecture and method thereof	22-07-2022
<u>Prof D V R Koti Reddy</u>	202141017552A	Low cost automated antimicrobial susceptibility testing system	30-07-2021
<u>Prof. Y. Srinivasa Rao</u>	201741017485	Pulse voltage trimming of polymer Thick Film Resistors.	18-05-2017
<u>Prof. Y. Srinivasa Rao</u>	20174011994	Microwave trimming of polymer Thick Film Resistors.	03-04-2017
Prof.M.Ramesh Patnaik	202141012068	A throughput Improvement method for IEEE 802.15.4 Based Wireless personal area Networks	26-03-2021
<u>Dr. A. Kamala Kumari</u>	202141038936 A	Plurality of gases detection from combustion material using air quality monitoring system with optimized sensors.	10-09-2021
<u>Dr. Swapna Peravali</u>	202141017903 A	Machine Learning-based Headlight Intensity Altering device for Electrical Vehicles	23-04-2021
<u>Dr. Swapna Peravali</u>	202141029922A	Wireless automation system with plurality of voice recognization and Encryption of fast fourier transformation	16-07-2021
<u>Dr. Swapna Peravali</u>	202141037361	A system and method for detecting cloud transients, cloud density using optimized solar tracking system	27-08-2021
Dr Daisy Rani Alli	202141017552A	Low cost automated antimicrobial susceptibility testing system	30-07-2021 <b>19</b>

## **Research, Innovations and Extension (Contd.,)**

JRF/SRF/OTHER FELLOWSHIPs



SI.N o	Name of Research fellow	Name of the Department	Sanction order	Year of Enrollment	Duration of Fellowships	Types of the fellowship	Fellowship amount	Grantin g agency	Qualifying Exam
1	<u>CH.SWATHI</u>	Inst Tech	SR/WOS-A/ET- 104-2016(G)	2017	3years	Women scientist-A (Wos-A)	Rs.22,90,000/-	DST	Nil
2	<u>P.V.N.S. Renuka</u> <u>Devi</u>	Inst Tech	F.3- 10/2016/DRS-I (SAP-II)	2017	2 years	PROJECT FELLOW	Rs 1,74,348/-	DST	GATE
3	<u>Yakub Banothu</u>	Inst Tech	Award No - 202021-NFST- TEL-00890	2021	5 years	National Fellowship and Scholarship for Higher Education of ST Students	Rs. 28000/- per month	Ministry of Tribal Affairs	Nil
				<section-header></section-header>		<image/> <image/> <image/> <text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text>			20

## Academic Highlights

Dept of
Instrument
hnology

	Qualified, Experie Motivated Fa	<ul> <li>Faculty avg. experience - 18 yrs.</li> <li>Maximum experience : 33 yrs.</li> </ul>
ACADEMICS	Well Equipped Lab	•Number of labs in the department: <b>10</b> •Research Labs:02
	Results and Place	<ul> <li>Consistent results in Final year :more than 90%</li> <li>Placements : more than 85% of the eligible students</li> </ul>
	Workshops and control of the second s	• Value Added Courses - 6 • Webinars - 2

## **THRUST AREAS OF RESEARCH**





## MAJOR / KEY INITIATIVES

## **Faculty Centric**



- Financial Assistance for Paper presentation abroad
- Incentive for Paper Publication in cited and reputed Journals
- Incentive for Grants received
- Financial Assistance for attending Workshop/Seminars/Conferences
- Monetary incentives to functional heads
- Free Medical Facility

## **Staff Centric**

- Skill Enhancement Training
- Free Medical Facility & Insurance
- Encouragement for Higher qualifications

### **Student Centric**

- Add- on courses
- Minors & Honorary Degrees
- Free Medical facility
- Remedial Classes



### CURRICULAR ASPECTS: CURRICULUM DESIGN & DEVELOPMENT PROCESS





- 1. Multidisciplinary/interdisciplinary- Minor Degrees, Honors Degrees with Specialization
- 2. Academic bank of credits (ABC)
- 3. Skill development: Skill Labs, Dassaults Laboratory, CoEs
- 4. Appropriate integration of Indian Knowledge system (teaching in Indian Language,
- culture, using online courses)
- 5. Focus on Outcome based education (OBE)
- 6. Online education: Online Platforms, E-Content, LMS, etc.

## Criterion 1 Courses With Employability/Skill Development/Value Added Programmes Offered In U.G/P.G

- Dept of Instrument Technology
- Average % of courses having focus on employability/ entrepreneurship/ skill development 80
- Courses offered Core courses and Electives/MOOCs Courses Link to COs:
- <u>B.Tech Instrumentation(2015-16)</u> <u>B.Tech Instrumentation(2020-21)</u>

Ο

- o B.Tech Instrumentation(2019-20)
- o <u>M.Tech Instrumentation(2019-20)</u>

B.Tech Instrumentation(2021-22)

Programme Code	Programme name	Year of Introduction (CBCS)	Status of implementation of CBCS/Elective course system (Yes/No)	Year of revision
2.1.16	B. Tech. Instrumentation	2017 19	VEC	2019-20
3-1-10	Engineering	2017-18	IES	2020-21
				2021-22
3-2-31	M.Tech. – Instrumentation & Control	2015-16	YES	2019-20 <b>26</b>

### CURRICULAR ASPECTS (CONTD.,)



Dept of Instrument Technology



#### Value Addition Courses

Industrial Requirements/Market demands, Guest speakers, Technological Upgradation, Skill Enhancement courses.



Project Works – Mini/Main Laboratory/Research based learning



Internships / Field Works hands-on experience, field trips



#### **Student forum-based activities**

Group Discussions, Case Studies, extra-curricular activities, interests outside the classroom and problem-solving exercises





Learning is more meaningful and enjoyable when content and process are learned in the context of real and present problems.

## **CURRICULAR ASPECTS (CONTD.,)**



#### **Student Projects**

Programme name	2017-18	2018-19	2019-20	2020-21	2021-22
B.Tech. (Instrumentation Engineering)	11	12	11	10	13
M.Tech. (Instrumentation and Control)	14	12	11	11	10
Ph.D.	05	11	09	07	04

### CURRICULAR ASPECTS (CONTD.,) Feedback Analysis



### Feedback system is in place and has an **active process** of

**Criterion 1** 

- Collecting feedback from all stakeholders
- Analysing the feedback
- Identifying the significant indicators to enhance the learning effectiveness.



## CURRICULAR ASPECTS (CONTD.,)



- Feedback for curriculum collected and analysed report
- <u>Students feedback on curriculum</u> 72
- Parents feedback on curriculum 59
- Faculty feedback on curriculum 14
- <u>Alumni Feedback on curriculum</u> 20





#### **CURRICULAR ASPECTS (CONTD.,)**

#### Feedback for curriculum collected and analysed report





#### **CURRICULAR ASPECTS (CONTD.,) Feedback Collections Models**



Technology

ANDHRA UNIVERSITY WVISAKHAPATNAM FACULTY FEEDBACK ON CURRICULUM Name of the Department & College:Instrument Emp Code: 1138 Technology, A. U College of Engineering Name of the Faculty:Prof. A Bhujanga Rao Designation:Professor Name of the Course: Lsensors and Transducers, 2. Course code: Industrial Instrumentation, 3. Microprocessors and Applications 4. Microcontroller Based Instrumentation, 5. Computer Based Process control Semester :III, IV, V, VI and VII A.Y:2020-2021 and 20212022 Kindly fill your feedback on curriculum, Teaching Learning and Evaluation of the courses you are teaching and select the appropriate option by marking 🗸 as per the following criteria C - Disagree A - Strongly Agree B - Agree C Mo Parameter Specific remarks (If any) Prerequisites, OBE attributes, text books/ yes reference books/ weblinks for each course are properly mentioned Course objectives and course outcomes are yes well defined and clear to faculty and students. The curriculum states the required course ves components Proper organization of the syllabi yes The curriculum meets requirement of stake [] yes holders Any difficulty in completion of syllabi Some times, extraordinary within time circumstances Continuous evaluation is based on the cognitive level tools in line with revised I Bloom's Taxonomy Compliance of syllabi with LOs. COs, POs I yes & PSOs attainment Curriculum reflection on Graduate attributes Identification & analysis of gaps in the I Taken care off present curriculum Bridging the gaps in the subsequent D yes curriculum Any specific remarks/suggestions Every time when the syllabus has revised the gaps in course curriculum and latest trends in the course are being incorporated to meet the industry and societal needs. The present curriculum is Based on outcome based education all the required parameters are taken care off.

	<i>a</i>	-					Γ	ANDHRA UNIVERSITY VISAKH	APATNAI	N		
		y visa	KHAF	PATNA	м				D			
								STUDENT FEEDBACK ON	I CURR	ICULL	JМ	
ne:	Durga Prasad Mavuduri	Departr	nent &	vi & Colle	ge: ation Enga ( Apolia	Nam tech	ne of th mology	e Department & College: Instrumentation & Andhrauniversity college of engineering	Name of t SATYAN	he Stude ARAYAI	nt: UPF NA PR/	ULA ASAD
		Physics)	msun	ument	ation cuße ( Abhile	Perio	od of s	tudy:2018-2022	Registration Number: 318106816031			
r of Passing	1988	Regd. N	0:			Nam	ne of co	ourse:B.TECH	Semester:7			
tact No.	+1 408 828 9909	CGPA obtaine	d			- Kind optic	dly fill on by n	your feedback on curriculum, of the courses narking $\checkmark$ as per the following criteria	you have	attende	d and s	elect the approp
lail ID	mavuduri@gmail.com	Mobile	No.	+1 40	8 828 9909	S.	No	Parameter	A 4	B	C	Remark
ent affiliation	University of Emerging Techn	ologies				1   .		-	(3)	(2)	(1)	
ignation	CEO					1.		Prerequisites of the course were met	~			None
are requested	to put a tick mark in the appr	ropriate l	oox pi	rovide	d against each Qu	n 2.		Course objectives and course outcomes we clear	ere √			None
er the following Strongly Agree	g criteria B – Agree		C - Di	sagree	Bamada	3.		Content of syllabus in alignment with cour outcomes	se√			None
Ouality of curr	iculum as ner OBE	X	\	8 (	Kemarks	4		Units/Modules/Tonics in the course are proper	dv J			None
Quality of	teaching learning & evalu	ation X	+	+				ordered				1. Calc
processes, Co Faculty related	urse materials, Video lecture to curriculum	s by				5.		Sufficiency of theory/tutorial/practical/semir	ıar √	-		None
Availability	of skill oriented /value a	idded X						classes				
/capacity build	ing courses of curriculum in achievemen	t of X	-	+		6.		Modern learning tools and teaching metho	ds √			None
attainment of G	COs and LOs	n 01 A						encourage the student participation.				
Availability	of required equipment in	all X				7.		Assessment criteria intended for the course	is	$\checkmark$		None
laboratories as	per curriculum.	t of V	-	+				appropriate				
attainment of F	Os and PSOs.	11 01 A				8.		Intended Skills / Course outcomes acquir	ed √			None
The curriculun	is helpful in getting skills for	Х						after completion of the course.				
placements/hig internship/com	ther education/ entrepreneurship metitive examinations	p/				9.		Compliance of syllabi in attainment of POs	& √	-	+	None
The curricului requirements	m meets the industrial/societal	Х		1				PSOs				
Give your feedba	ack on various electives offered	during y	our co	ourse o	f study. f the best	10	0.	Course provides additional knowledge advanced topics.	in	~		None
Skills acquired b	y you during the completion of	your UG	/PG p	roject.		11	1.	Availability of Contents in prescribed text hoo	ks 🗸		-	None
Better Theoreti	cal principles of Instrumentat	tion and	Proce	ss con	trol			/ reference books /weblinks.	- I .			
Opto-Electronic	cs. Control Engg. Process Con	trol. Ind	ustria	11 Elec	tronics. Engg Dra	12	2	Any suggestions/Specific remarks	Kind	V TROUT	esting	to increase pr
Any other sugge	stions:	,				, I I I I I I I I I I I I I I I I I I I	<b>.</b> .	any supportent operations	know	iladea in	CONTRA	to merease pr
Focus on core a	utomation and industrial inst	rumenta	tion v	vould	have been better				KHOW	ieuge in	course	
					Signa	2						
									c	1.5	·Pr	been
									(8	: t		he Student)

ANDHRA UNIVERSITY VISAKHAPATNAM COLLEGE: DEPARTMENT: PARENT/GUARDIAN FEEDBACK ON CURRICULUM Parent Name Pragada Krishna Student Name Pragada yamini Regd. No of the 318106816028 student Year of Passing out 2022 CGPA 7.57 Contact No. of 9848781273 Mobile No.of 9550093775 parent : student E-Mail ID of krishnapragada80@gmail.com Email of student: pragadayamini25@gmail.com parent if any Occupation of the Contract labour parent: You are requested to put a tick mark in the appropriate box provided against each Question as per the following criteria A □ Strongly Agree B 🛛 Agree Parameter A B C Specific Remarks 1. Quality of curriculum 2. Quality of teaching learning process, Course materials, Video lectures by Faculty etc Availability of skill oriented courses. 4. Examination system adopted by college 5. Availability of required equipment in all laboratories as per curriculum. 6. Compliance of curriculum in attainment of POs and PSOs. Which courses in the curriculum helped vour ward in gettin UNEMPLOYED employed. 8. Did you identify gap between industry and our curriculum? If yes please specify? NO 9. Give your feedback on electives PPI and AI helpful are subjects 10. Skills acquired by your ward during the completion of UG project done Project not 11. List out the courses/activities helped to improve life skills of your ward. activity skills and skills 12. Any other suggestions/remarks:

FACULTY

A.Bhujanga Rao

Signature of faculty

**ALUMNI** 

**STUDENT** 

PARENT

## DEMAND RATIO



Academic Year	2017-18	2018-19	2019-2	20 2020-21	2021-22		
B.TECH							
Seats Available	33	33	72	37	37		
<b>Students Admitted</b>	33	33	72	37	37		
<b>Applications Received</b>	145428	132281	133003	133072	133072		
<b>Demand Ratio</b>	4691	4267	1643 2334		2294		
M.TECH							
Seats Available	18	18	18	18	18		
<b>Students Admitted</b>	12	12	07	07	08		
<b>Applications Received</b>	26677	23831	20986	20165	20165		
<b>Demand Ratio</b>	1482	1589	1399	1120	1186		

## **STUDENT DIVERSITY**



#### **B.Tech**

S.No	ADMITTED YEAR	MALE	FEMALE	CATEGORY				
				OC	BC	SC	ST	NRI
1	2017-18	21	23	14	26	2	2	-
2	2018-19	14	14	6	20	5	2	-
3	2019-20	45	27	12	48	9	3	-
4	2020-21	20	16	7	19	8	2	-
5	2021-22	21	16	6	23	6	1	1

## **STUDENT DIVERSITY (Contd.,)**







## **STUDENT DIVERSITY(Contd.,)**



Instrument

Technology

#### M.Tech

S.No	ADMITTED YEAR	MALE	FEMALE	CATEGORY				
				OC	BC	SC	ST	NRI
1	2017-18	11	1	5	5	2	0	0
2	2018-19	12	6	7	9	1	0	1
3	2019-20	8	0	4	2	1	1	0
4	2020-21	5	2	3	3	1	0	0
5	2021-22	4	2	2	3	0	1	0
## **STUDENT DIVERSITY(Contd.,)**





-22

MALE FEMALE

## **STUDENTS CAREER PROGRESSION**







Instrument

#### **STUDENT - FACULTY RATIO**

	No. of Students												
Program Name	2017-18	2018-19	2019-20	2020-21	2021-22								
<b>B.Tech Instrumentation Engineering (4 Yrs)</b>	90	93	99	138	141								
M.Tech. – Instrumentation & Control (2 Yrs)	25	30	26	15	16								
Total No. of Students	115	123	125	153	157								
No. of Faculty Members	12	12	12	12	12								
Student – Faculty Ratio	~10:1	~10:1	~10:1	~13:1	~13:1								

## Note: Average Student – Faculty Ratio: 11:1

## **STUDENT'S CATEGORIZATIONS**



### For advanced learners

Student Centric Methods	Programmes
Student managed events	SPIKES (A National Level Student Symposium) - 02
Personality development program	Communication Skills Lab
<b>Placement support/ Career Guidance</b>	Placement training/Webinar on Career Guidance - 03
Industrial Internship	Summer Internship Provided In Various Local Industries
Monetary benefit Student Achievements	Awards & Merit Scholarships - 01

## **For Slow Learners**

Student Centric Methods	Programmes
Remedial classes	Conducting additional classes and Giving assignments
Participative learning	Periodic Online interactive programs with experts
<b>On-line Guiding &amp; Doubts Clearing Sessions</b>	Through Google Classroom

## **STUDENT - MENTOR RATIO**



	No. of Students											
Program Name	2017-18	2018-19	2019-20	2020-21	2021-22							
<b>B.Tech Instrumentation Engineering (4 Yrs)</b>	93	92	98	137	143							
M.Tech. Instrumentation and control (2 Yrs)	25	30	26	15	13							
Total No. of Students	118	122	124	152	156							
No. of Mentors	07	07	07	10	10							
Student – Mentors Ratio	~16:1	~17:1	~17:1	~15:1	~15:1							

### Note: Average Student – Mentor Ratio: ~16:1



# **Programme Educational Objectives (PEOs) – UG B.Tech. Programme**



Prog stud	gramme Educational Objectives are long term statements to educate ents about objectives of Instrumentation Engineering Programme	the	e Dept of Instrument Technology
PEO1:	To provide students with a solid foundation in Mathematics, Engineering Sciences, Electronics and Instrumentation Engineering which prepares students for wide range of career opportunities in Industries, Research field and in academics	a. b.	Fundamental Knowledge Lifelong Learning
PEO2:	To train the students with good engineering breadth to comprehend, analyze, innovate and design new products in core and multidisciplinary domain, to provide technical solutions to real life problems and to render technical services to the needs of the society	a. b.	Ethics and Values Society Concern
PEO3:	To provide students with an academic environment of excellence, pro-activeness, leadership positions in multidisciplinary teams and lifelong learning for successful professional career.	a. b.	Team work Communication Skills
PEO4:	To inculcate professional and ethical attitude, creative, effective communication and presentation skills and enhanced ability to work in teams to pursue complex, open ended investigations and research.	a. b.	Professional Development Higher Studies
PEO5:	To motivate students towards becoming entrepreneurs, collaborators and innovators, leading or participating in efforts to address social, technical and business challenges.	a. b.	Leadership Qualities 21 <sup>st</sup> Century Skills

# **Programme Educational Objectives (PEOs) – PG M.Tech. Programme**



Prog stud	ramme Educational Objectives are long term statements to educate ents about objectives of Instrumentation and Control Programme	the Dept of Instrument Technology
PEO1:	Extract knowledge through literature survey, experimentation, expertise in research methodology, technique and tools.	a.Extract Knowledge b.Research Methodology
PEO2:	Utilize, expertise in designing and analysing complex and real life problems that are techno-economically and socially sustainable.	Expertise in Designing
PEO3:	Demonstrate professional ethics and commitment to organizational goals.	Professional Ethics
PEO4:	Demonstrate Leadership and team work while working with diverse multi- disciplinary/interdisciplinary groups.	Leadership and Team work
PEO5:	Exhibit sustained learning and adaptation to modern engineering tools, techniques and practices through instruction, group activity and self-study.	a.Sustained Learning b.Group Activity c.Self - study

## **PROGRAMME OUTCOMES – (POs)**



PO1:	ſ	Engineering Knowledge – The students shall be able to apply the principles of Basic Sciences and Mathematical skills in learning in Basic Engineering subjects. The knowledge gained thus enables the students to apply them in learning the core branch i.e. Instrumentation Engineering.
PO2:	ſ	Problem Analysis-The students shall acquire Analytical Thinking; Problem solving abilities, get exposure to the modern computational procedures and apply them in the core Instrumentation Engineering.
PO3	•	<b>Design/Development of solutions</b> – The background knowledge gained, the Analytical and computational skills acquired by the students shall enable the students to apply them in the core Instrumentation Engineering to design Electronic circuits, highly sensitive sensor networks for monitoring and control of various physical, chemical, and Industrial parameters and processes.
PO4:	ſ	Conduct investigations of complex problems – The students shall be able to apply the knowledge and adopt research methodologies for the modernization of existing designs of Instruments, design sophisticated instrumentation systems interfaced to dedicated embedded controllers or High-end computers. They shall be able to Acquire, Analyze, Interpret and Control any complex processes or problems in Industry and R & D.
PO5:	•	Modern tool usage – The students gain expertise in the utilization of modern software tools like C, JAVA, Multi- sim, Signal and Image processing tools for applications in communications, Biomedical (ECG, EEG,MRI) etc. Hardware gadgets like the Digital Storage Oscilloscopes, Function Generators, Spectrum Analysers., for applications in Industry and R & D.
PO6:	•	The engineer and society – The students of Instrumentation engineering should be motivated to utilize their Scientific, Technological, Computational and Instrumentation skills for the better addressing the societal needs. Design new sophisticated instruments for the high-end Research and Process Industries, Pharmaceutical and Bio-medical fields.

# **PROGRAMME OUTCOMES (Contd.,)**

PO7:	• Environment and Sustainability – Instrumentation Engineering is a multi-disciplinary branch. The students shall be motivated to utilize their knowledge for design of highly sensitive and low energy consumption, low radiation emitting, lower environment polluting instruments, operating on renewable energy sources and implement all such measures to sustain the quality of the environment.
PO8:	<ul> <li>Ethics – The students are motivated to follow a code of ethics and moral perspectives at the individual level as well as professional level to protect the interests of all the stakeholders, with a concern for societal responsibilities.</li> </ul>
PO9:	<ul> <li>Individual and teamwork - Communication skills, Aptitude development programs, Team activities like SPIKES National level workshops/ Seminar Presentations etc. contribute greatly for the development of individual talents/skills. Involvement in Professional, Cultural, Sports activities provided in the institute shall also develop capabilities of a student to mould oneself as an Individual member, Team leader or an Organizer.</li> </ul>
°O10:	<ul> <li>Communication – The intensity of inputs (Listening, Speaking, Reading and Writing Skills) inputs and trainings imparted through all these activities, the students shall acquire excellent communication skills both oral as well as writing skills. They shall be able to transform their innovative ideas into excellent technical reports for presentation or publication in seminars and journals.</li> </ul>
PO11:	<ul> <li>Project management and finance – The students shall be able to conceptualize ideas, formulate projects, visualize their execution and realize final product. The students shall demonstrate the skills required for drafting of proposals for projects with thorough understanding of the procurement plans (materials, software, hardware), project management and financial allocations and management during the execution of the project.</li> </ul>
°O12:	• Life-long learning – The students shall be motivated to keep themselves in-tune with the contemporary changes in technological processes through life-long learning and contribute their expertise for the benefit of the current stake holders and the society.





## PROGRAMME SPECIFIC OUTCOMES (PSOs) – PG M.TECH. PROGRAMME

Dept of Instrument Technology

**Programme Specific Outcomes are statements to ensure the objectives to be achieved in Instrumentation and Control Programme** 



## <u>CO – PO - MAPPING</u>



B. Tec	h						Course Name: Analytical Instrumentation														
CO		РО													PSO						
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4					
<b>CO1</b>	2	3	3	1	3	3	2		1	3		2	1			1					
<b>CO2</b>	3	3	2	3	2	3		3	3					3							
<b>CO3</b>		1		2						2		3		3							
CO4	3	2		3	3		3	2			2				1						
CO5	3	3	3		2	2			2		3	2	1								

**Correlation levels** 1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

<b>B.</b> Tec	ch Course Name: Industrial Elec													cs		
CO				PSO												
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
<b>CO1</b>	3	2	2	3	3	3	2		2				1	2		
CO2	2	2	3		2	3				2				2	3	
CO3	3	1		3	3	2	3	2	3		2	3			3	1
<b>CO4</b>	3	2	3	2						2				2		1
<b>CO5</b>	2	2	1	3	2									1	2	

Correlation levels 1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

## CO – PO – MAPPING (Contd.,)



B. Tec	h								C	Course	tual Ins	Dept of								
CO		PO													PSO					
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4				
<b>CO1</b>	3	2	3		3			2					3							
CO2	3	3	3	3		3			2					1	3					
CO3	2	3			3	2	3	2		2		3	1		2	2				
<b>CO4</b>			3	2		3					3			3						
<b>CO5</b>	3	2	3	3	2		2		2		2	2	2		1					

Correlation levels 1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

B. Tec	Tech Course Name: Process Control And Control Con													Compo	nents	
CO					PSO											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
<b>CO1</b>	3	3	2	1	3					2		3	2			1
CO2	2	1	3	2	2	3	2	2	3			2		2	1	
<b>CO3</b>	1	2	3		3								2			1
<b>CO4</b>	2	2					3			3	2			1	2	1
CO5	3	3	3	3	2	2		2							1	

Correlation levels 1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

## **PO ATTAINMENT LEVEL**



#### **PO Attainment Level (Average PO Attainment of Instrument Technology Program)**







	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
Number of students appeared in the final year examination	33	33	33	33	33
Number of students passed in final year examination	29	29	25	32	30
Percentage of students passed in final year examination	<b>87.79</b> %	<b>87.4</b> %	<b>80</b> %	<b>96</b> %	<b>90.6</b> %



#### AWARDS FROM PROFESSIONAL SOCIETIES/BODIES



S.NO	NAME OF THE FACULTY	AWARD TITLE	AWARDING AGENCY	YEAR
1.	Dr.A.Daisy Rani	Best Woman Researcher Award	IJIEMR-ELSEVIER	2021
2.	Dr.A.Daisy Rani	Academic Excellence Award	Smt. Vimala Devi Education Society	2021
3.	Dr.A.Kamala Kumari	Academic Award for Best Researcher	Universal Group of Institutions, Chandigarh	2021
4.	Dr.P.Swapna	Best Woman Researcher Award	IJIEMR-ELSEVIER	2021
5.	Dr.P.Swapna	Global Teacher Award	AKS Educational Trust	2021







Room number or Name of classrooms/Seminar Hall with LCD / wi-fi/LAN facilities with room numbers	Type of ICT facility
Final Year classroom	Sound system, Air condition, LCD Projector and smart Board
Third year classroom	Computer, AC's, LCD projector and Smart Board
Second year classroom	AC's, LCD Projector and white Board
Seminar hall	AC's, Sound system, LCD Projector
Conference room	AC's, LCD Projector and Smart Board, white Board

## INFRASTRUCTURE AND TEACHING RESOURCES(CONTD.,)



#### e-Class rooms / smart class rooms







The Department is totally technology enabled. There is 24\*7 internet and Wi-Fi connection available for the staff and students. There are three LCD projectors , 2 Digital interactive smart Boards, audio-visual equipment to have online class as well as offline classes. 56





## Department library/e -resources/Wi-fi/internet facilities/ link to library e-resources

- ➤ Text Book Volumes 433 (Donated by Alumni and Retired Teachers)
- ≻ College is having 1GBPS leased line.
- IEEE and DELNET, Central Funding (E-SHODHSINDHU, SHODHGANGA), J-GATE, INFILIBNET.
- <u>https://www.andhrauniversity.edu.in/library</u>
- ≻ E-Journals IEEE.
- > Apex Journals
- DELNET <u>http://delnet.in/</u>
- ≻ J-Gate
- > INFLIBNET

## INFRASTRUCTURES AND TEACHING RESOURCE (CONTD.,)



#### Dept of Instrument Technology

## □ . Link to library e resources

- SHODHGANGA <u>https://shodhganga.inflibnet.ac.in/</u>
- Andhra University in Top 10 Indian Universities in Shodhganga

#### Shodhganga : a reservoir of Indian theses @ INFLIBNET

The Shodhganga@INFLIBNET Centre provides a platform for research students to deposit their Ph.D. theses and make it available to the entire scholarly community in open access.



Shodhganga@INFLIBNET

Andhra University : [9400] University home page

Browse			
Upload Date	Researcher/Guide	Title	Keyword

#### Discover

Keyword	
Social Sciences	2320
Physical Sciences	1840
Engineering and Technology	1501
Arts and Humanities	1351
Engineering	1210
Life Sciences	1165

Year Completed	
2020 - 2023	1148
2010 - 2019	4115
2000 - 2009	1722
1990 - 1999	844
1980 - 1989	821
1970 - 1979	399

Language	
English	8785
Telugu	344
Hindi	204
Sanskrit	53
Marathi	3
	peyt >





Crite	riterion 4 INFRASTRUCTURES AND TEACHING RESOURCE (CONTD.,)							
Schol	holarships					Dept of Instrument Technology		
S. No	Academic Year	Number of Students benefited	Amount (Lakhs)		S. No	Academic Year	Number of Students Qualified	Ragging <i>free</i> campus.
1	2017-18	63	8.7		1	2017-18	15	
2	2018-19	67	9.6		2	2018-19	2	
3	2019-20	60	5.6		3	2019-20	3	
4	2020-21	65	3.25		4	2020-21	7	
5	2021-22	60	5.6		5	2021-22	4	



S.No	Name of the value added courses (with	Number of	Number of Students
	<b>30 or more contact hours) offered</b>	students	completing the
		enrolled in the	course in the year
		year	
1	BASICS OF PLC	52	52
2	BASICS OF PROCESS INSTRUMENTATION	55	55
3	BASICS OF SCADA	17	17
4	BASICS OF INDUCTION MOTOR	23	23
5	BASICS OF AC -DC DRIVES	5	5
6	INDUSTRIAL AUTOMATION WITH PLC	1	1

## **INFRASTRUCTURES AND OTHER RESOURCES**



Technology

**Drinking Water** 



Library

Ladies Waiting Hall



Other facilities to student available in the Department



## **STUDENTS SUPPORT AND PROGRESSION** Students Council & Activities



Dept of Instrument



**Independence Day** 



**Republic Day** 



**Tri-color Flag Day** 



International Yoga Day



**NSS Day** 



Spikes



Swachh Bharath



**Books Drive** 



**Blood Donation Camp** 



**Career Guidance - 1** 



Career Guidance - 2



**Class Room Seminars** 

## **Criterion 5** STUDENTS PLACEMENTS/PROGRESSION (2017 – 23)



Dept of



Note: More than 50% of the placed students got 2 or more offers in the current year

#### LIST OF STUDENTS GOT PLACEMENTS IN MULTIPLE COMPANIES



S.No	Name of the Student	Placement(s) Offered by	Currently Placed In to	D
1	L. Dambeshwar Naidu	<ul> <li>IOCL,</li> <li>TATA Power,</li> <li>Engineers India Ltd,</li> <li>PROXIMA.</li> </ul>	Indian Oil Corporation Ltd	Ins Tec
2	S.Venkat Rithwik	<ul> <li>Hexaware Technologies,</li> <li>Cognizant,</li> <li>TCS,</li> <li>Reliance Industries LTD.</li> </ul>	Reliance India Limited	
3	K Tanmayi	<ul> <li>Quest Global,</li> <li>HCL Technologies.</li> </ul>	Quest Global	
4	D. Sai Devendra	<ul> <li>Deccan Chemicals,</li> <li>L&amp;T.</li> </ul>	L&T	
5	D. Vinay Kumar	<ul><li>TCS,</li><li>Cognizant .</li></ul>	Cognizant	
6	M.Raga Priya	<ul> <li>Quest Global,</li> <li>Mahindra and Mahindra,</li> <li>Linde Engineering PVT LTD.</li> </ul>	Linde Engineering PVT LTD.	
7	G.Sai Likhita	<ul> <li>Cognizant,</li> <li>Hexaware,</li> <li>Effortronics</li> <li>Linde Engineering PVT LTD</li> </ul>	Linde Engineering PVT LTD.	
8	A.H.S. Nithin	<ul> <li>Cargill,</li> <li>ITC.</li> </ul>	ITC	

## LIST OF STUDENTS GOT PLACEMENTS IN MULTIPLE COMPANIES (Contd.,)



S.No	Name of the Student	Placement(s) Offered by	Currently Placed In to
9	E.Raj Rithwik	<ul><li>Cognizant,</li><li>L&amp;T.</li></ul>	L&T
10	K. Abhinav Sai	<ul> <li>Reliance India Limited</li> <li>Comviva</li> </ul>	Reliance India Limited
11	V Gowtham sai	<ul><li>&gt; JSW,</li><li>&gt; CTS.</li></ul>	JSW
12	S Kiranmai	<ul><li>&gt; AGNP,</li><li>&gt; Technip.</li></ul>	Technip
13	Anirudh Ganta	<ul><li>Westline,</li><li>Deccon Chemicals.</li></ul>	Westline
14	G Mounika Syamala	<ul> <li>L &amp; T,</li> <li>CTS.</li> </ul>	L&T
15	Ch. Gayathri	<ul> <li>L&amp;T,</li> <li>Hexaware,</li> <li>Cargill.</li> </ul>	L&T
16	K.Amala Chandrika	<ul> <li>Reliance,</li> <li>CTS.</li> </ul>	Reliance

## LIST OF STUDENTS GOT PLACEMENTS IN MULTIPLE COMPANIES (Contd.,)



S.No	Name of the Student	Placement(s) Offered by	Currently Placed In to
17	K Jeethasri	<ul><li>Quest,</li><li>L&amp;T.</li></ul>	L&T
18	L. Suryadeep	<ul> <li>CTS,</li> <li>Reliance.</li> </ul>	CTS
19	M. Mohith	<ul> <li>L&amp;T,</li> <li>CTS,</li> </ul>	L&T
20	N.Harshitha	<ul><li>Technip,</li><li>IELTS.</li></ul>	IELTS
21	N.Kamalesh	<ul><li>&gt; Effortronics,</li><li>&gt; Reliance.</li></ul>	Effortronics
22	S Sriya Gayathri	<ul><li>Technip,</li><li>Hexaware.</li></ul>	Hexaware
23	T Nikil Sai Sandeep	<ul> <li>Reliance,</li> <li>JSW,</li> <li>CTS.</li> </ul>	JSW
24	R Prudvi	<ul> <li>CTS,</li> <li>TCS.</li> </ul>	TCS

#### **STUDENTS PROGRESSION**

HIGHER STUDIES



### **STUDENTS PROGRESSION**



0891-2844496 Cell: 9703831117 vijaymohansports@gmail.com

ausportsvsp@gmail.con Web: and hrauniversity.edu.in



#### **Sports Activities**

Students participated in inter-university and national wise sports events

NAMES OF TAXABLE PARTY OF TAXABLE PARTY.	DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES	
	Prof.N.Vijay Mohan, MTR.TRA.BK.SK.SOBALBLA Director of Physical Education & Secretary, Al Sports Board Dept. of Physical Education & Sports Sciences Andhra University Visikhupatuma: 530 003 (AP)	0891-27 Cell 57033 vijaymohanspotski gran ausportsvsprögan Web: andlarauniversity
ANDHRA PRADESH MEN & WOMEN UNDER 23 CHAMPIONSHIPS - 2021	To The Principal ,	Date: 26-06-202
W 261	Sir, I am happy to inform you that the neavisionally selected to represent Authors In	following player(s) of your institution is/s
Merit Certificate	Roller Hockey (Men & Women) term for University Roller Sports (Men & Women) at	the year 2021-2022. The All India Inti- of Roller Hockey (Men & Women) team w
is is to Certify that S. Johnavi keerthi SIO/D/O Verkatowax Rad	be participating All India Inter-University Tour from 30.06.2022 to 03.07.2022. In this can student that the All India Inter University partic	nument held at Andhra University Campus nection, I request you to kindly inform yo ipation from 28.06.2022 to 04.07.2022
	S.No.   Name of the Player	Name of the College
Planate MOD M	1. V.Bhavaya Sri	St Josphs College For W
Les District / organization Secured Second Place in 400 11	2. B.Venu vandhan	Dr L.B.College
ADDATINA M DISPLICE /	3. Priyam Tated	GVP College
	4. Pratham Tated	Ushodaya Degree College
a unit of the Andrea Peadesh Athletics Association at Acharva	5. P.Sai Charan	Samata
ien & Women Organised by Andrira Pradesh Adributes Association and the	6. A.Vineel Judsan	AU College of Engg
	7. K.sai Kiran	Gonasa
a second se	<ol> <li>P.Ganesh Reddy</li> </ol>	Noble Institute of Science and Tech
una University Grounds, Guntur, from 20th to 30th August 202	9. K.Rohith Naidu	GVP Degree And PG College
	10 K.Satya Sai Maithra Varun	Dr.L.B.College
17: 1 AV (NU) 12- 2004	12 P. Ashridan	AU College of Engg
ance 1: 10. 63 Sec Date of Dirth and the	13 K.L. Nagandra Sadadt	Samata
	14 D. Yasewanth Varma	All College of Enga
	15 M.Bhagya Shree	AU College of Enga
	16 K.Usha Bhagya Sree	AU College of Enge
	17 G.Akhila	AU College of Enge
	18 U.Sravya	AU College of Engy W
N.	19 S.Ukta	Dr.L.B.College
1	20 Preethi Pataik	AU College of Engg
Vivi	21 A.Prasunna	NBM Law College
LOLA POLA	Thanking you,	L'ont Law Conege
KONALUSICAHSYAR KAO Servis Koraj Nedati Autorita		Yours sincerely, M455 (N.VIJAY MOHAN) Director of Physical Education Secretary, Sports Board



## **STUDENTS SUPPORT AND PROGRESSION**

#### **PROMINENT ALUMNI**



S.No	NAME	DESIGNATION	ORGANIZATION
1	Dr. T.G.K.Murthy	Former Director ISRO, Ex-Scientific Advisor to Govt of India	Govt of India
2	Dr.Chennupati Jagadeesh	President, Australian Academy of Sciences and Scientific advisor	Govt of Australia
3	Mr. M.Ravindra Sai	Chief Commissioner Income Tax	Govt of India
4	Mr. B.Raghavendra Rao	Deputy Managing Director	SBI, Bombay
5	Mr. A.V.Raja Mouli	IAS	Home Secretary, Govt of UP.
6	Dr. C.D. Malleswar	Director, NSTL Visakhapatnam.	DRDO, Govt of India
7	Mr.T.Kodanda Ramaiah	Vice President	Reliance Industries Ltd, Kakinada
8	Mr. Sairam Kumar	General Manager Automation	Vizag Steel
9	Mr.S.MuraliMohan	General Manager, Projects	HPCL, Visakh Refinery
10	Mr.Chinmay S.Pant	Vice President-Marketing	Orion Instruments, PUNE
**Criterion 5** 

# STUDENTS SUPPORT AND PROGRESSION

## **PROMINENT ALUMNI (CONTD.,)**



Dept of Instrument Technology

S.NO	NAME	DESIGNATION	ORGANIZATION
11	Mr.M.Muralidhar	Head, Operations	ITC Limited Chennai
12	Mr.K.Srinivasa Bhaskar	General Manager	NTPC
13	Mr. G.Ramprasad	Head, Control Systems Engineer	Enbridge INC, CANADA
14	Mr.K.V.Ramesh	Head, Instrumentation & Control	QATAR Gas, DOHA, QATAR
15	Mr. M.Venkaiah	Head Instrumentation Engg	Kuwait National Petroleum company, Ltd, KUWAIT
16	Mr. Ch. Suresh Babu	Executive Director & Board Member Balasore Alloys	Odisha
17	Mr. G.V.S.Brahmam	Director, Neo Geo Info Technologies	Hyderabad
18	Mr. K.Chandrasekhar	Head, Optical Engineering, META	California, USA
19	Mr. K. Sunil	General Manager	ONGC

## Alumni of the Department Contributed Lab Equipment, cost approximately ₹1.65 Lakhs



Dept of Instrument Technology

Visakhapatnam, Date: 02/05/2022

#### From,

The Head of the Department, Instrument technology, Andhra University College of Engineering, Visakhapatnam.

Permitted the extention to accelt the late particip ment download by the alcented by the alcented by the

U COLLEGE OF ENGINEERING (A) VISAKHAPATNAM-53

lepont

#### To,

The Principal. AUCE(A), Visakhapatnam

#### Respected Sir.

Sub: Request for permission to accept equipment sponsored by our old students for establishing "Electrical Measurements Laboratory" - Reg :

Ref: My telephonic conversation with some of the old students in this regard.

I bring to your kind notice that on my request, some of our Alumni belongs to 2009-2013, 2010-2014 and 2008- 2012 batches came forward to sponsor some equipment to proposed "Electrical Measurements Laboratory". This lab is very essential for 2/4 B.Tech second semester students as per the revised curriculum of 2020-2021 Academic year. They have also proposed to submit the list of equipment to them, to buy the same and supply to the Department of Instrument Technology.

Hence, I request you to kindly permit us to accept the proposal of our Alumni and to proceed further to establish new "Electrical Measurements Laboratory" in our Department with their support. Please consider the request and do the needful.

Thanking you Sir,

Yours Sincerely, deo

(Dr. A. KAMALA KUMARI) Head of the Department

Head of the Department ment of history I Tech. .u. Lodege of Engineering . 4,

**TECHNO VISION SOLUTIONS** #.48-14-31/1, 2nd Floor, Akhila Arcade, Ramatalkies Road, Asilmetta Jn., Visakhapatnam - 530 016 E-mail:tvs.vizag@gmail.com.

#### INVOICE

The Head of the Department Department of Instrument Technology AU College of Engineering. Andhra University, Visakhapatnam (AP)

22-23/Invoice/031 Dt. 29.07.2022

Cell : +91- 87128 28301

SI. No.	PARTICULARS	Qty	Unit Price (INR)	Extended Value (INR)
1.0)	Kelvin Bridge trainer kit Make and model: NVIS 6534	1	7,000.00	7,000.00
2.0)	Maxwell Bridge Trainer kit Make and model: NVIS 6533	1	7,500.00	7,500.00
3.0)	Hay Bridge Trainer kit Make and model: NVIS 6535	1	7,500.00	7,500.00
4.0)	Schering Bridge Trainer Make and model: NVIS 6037	1	11,000.00	11,000.00
5.0)	Measurement of power and power factor in 3 phase by Two Watt meter method	1	36,500.00	36,500.00
6.0)	Measurement R, L, C and Q meter using LCR,Q METER. Make: Scientific Model: SM5118	1	20,000.00	20,000.00
7.0)	Extension of ranges of digital ammeters and digital voltmeter. Consists of panel. Digital Voltmeter: 1 No. Digital Ammeter: 1 No. MCB Protection, Indicator, Terminals, Patch chords.	1	15,500.00	15,500.00
8.1)	Function Generator: 3MHz Make: Scientific Model: SM5070	3	9,650.00	28,950.00
9.0)	Digital Multimeter; Make: MECO	S <b>4</b>	1,375.00	5,500.00
	SUB TOTAL			1,39,450.00
	GTS @ 18%			25,101.00
	TOTAL			1.64.551.00

For TECHNO VISION SOLUTIONS

VIZAG

Authorised Signatory

Year

## **Governance**, Leadership/Management

## **Conferences/Workshops attended with financial support**



Dept of Name of Name of conference/ workshop attended for which Amount of Instrument teacher financial support provided support Technology 2017-18 Prof.Y.Srinivasa "National Technical Symposium SPIKES-18 ₹ 1,00,000 Rao Prof.D.V. Rama One day Worshop on "Semiconductor Nano Wires for ₹ 58,885 Koti Reddy Optoelectronic Applications" Prof.Y.Srinivasa A four day national level technical symposium (SPIKES -18) ₹ 9,700 Rao Prof.D.V. Rama Training programme for Visiting the lab of Prof. S. Mohan, ₹ 14,002 **IISc Bangalore** Koti Reddy Faculty Development Program on "Advanced Embedded 2018-19 Dr. A. Kamala ₹ 11,809 System Design on Zynq Ultra Scale+using Vivado" held at Kumari JNTUH, Hyderabad. 2019-20 Prof.D.V. Rama Training programme for Visiting the lab of Prof. S. Mohan, ₹ 19,772 **IISc Bangalore** Koti Reddy Workshop on "Smart Sensors" in the Department of Prof.D.V. Rama ₹ 1,70,674 Instrument Technology AUCE(A) in association with ISSS AP Koti Reddy SPIKES-20 Organized by department of ₹ 2,02,548 Dr. A.Dasiy Rani Instrument Technology 2020-21 Dr. A. Daisy Rani One week capacity building workshop on "Outcome Based ₹ 2,000 Education (OBE) and Accreditation Process" which was conducted by Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi One week capacity building workshop on "Outcome Based ₹ 2,000 Dr. P. Swapna Education (OBE) and Accreditation Process" which was conducted by Bharati Vidyapeeth's Institute of Computer

Applications and Management (BVICAM), New Delhi

**Criterion 7** 



1: SPIKES: National Level Technical Symposium



Dept of Instrument Technology



2. Merit Students Award: Prof. P. Sitarama Swamy Memorial Gold medal is awarded to IV/IV B.Tech Topper of the batch in annual Convocation since the year 1994.



Technology

3. Design and Installation of Clock Tower at Andhra University







## One of our Alumni established a start-up "DIGIOTAI" at a-HUB.





Dept of Instrument Technology

# COMPANY Profile

DIGITAL TRANSFORMATION PARTNER

### **ABOUT US:**



OUR STORY

DIGIOTAI is a digital transformation (DX) enablement partner to reputed entities worldwide, enabling companies to update and thrive in the digital economy. DIGIOTAI empower companies with digital business solutions, improved operations, digital growth, and innovation.



DIGIOTAI Solutions, as has been founded company, vision with and а commitment to help drive a complete digital transformation enablement across enterprises using the emerging stack of technologies such as IoT, Data Science, Al, Blockchain & AR/VR.



### OUR MISSION

Our mission is to build sustainable and industry agnostic automated platforms and solutions, that can ensure an easy adoption towards the digital transformation curve, with us driving the ecosystem across Ideation, Conceptualization, **Development and Turnkey** realizations

### **OUR SERVICES**



Digital Transformaiton , Industry4.0, Sustainability , Emerging Technologies Consulting



Technology Services : IOT,IIOT, AI, ML, BLOCKCHAIN



DEVELOPMENT : Python, Full stack, Data, React, Nodejs

## WHY CHOOSE US?

Our Hub platform makes it easy for your entire company to work together — from Digital Transformaiton enablement of your corganisation

### **CONTACT US**

Vijay Gunti +91 9963611235



A-HUB, Andhra Unviersity India

www.digiotai.com
 info@digiotai.com

# 4: Holistic personality Development for Wellness of Individuals



Dept of Instrument Technology



## **Criterion 7**

# Best Practices (Contd.,)

- Solid waste management GVMC recyclers (at hostel premises)
- Liquid waste management pits
- Andhra university e-waste management policy comprises: e-waste awareness, Responsibility of consumers, Dos and Don'ts, Procedure for storage of e-waste
- Rain water harvesting pits are provided in the campus.





Technology



# ANDHRA UNIVERSITY E-WASTE HANDLING AND MANAGEMENT GUIDELINES

### E-WASTE Awareness

E-Waste: Electrical and electronic equipment, whole or in part discarded as waste by the consumer or bulk consumer as well as rejects from the manufacturing refurbishment and repair processes.



#### Electrical and Electronic Equipment

Means equipment which are dependent on electric current or electromagnetic field in order to become functional.

#### E-waste Exchange

Means an independent market instrument offering assistance or independent electronic systems offering services for sale and purchase of e-waste generated from end-of-life electrical and electronic equipment.

E-Waste, if any, should be handled as per the **E-Waste** (Management) Rules, 2022 and its subsequent modifications. The rules are available in the AU web site.

E-Waste should not be disposed of into any water body or on to the land. It needs to be properly handled and sent to the authorised organisations only. **Responsibilities of Consumer or Bulk Consumer** 

- Ensure that e-waste generated by them is channelised to authorised dismantler or recycler
- Maintain records of e-waste generated by them in Form-2 and make such records available for scrutiny by the concerned State Pollution Control Board
- Ensure that such end-of-life electrical and electronic equipment are not admixed with e-waste containing radioactive material as covered under the provisions of the Atomic Energy Act,1962(33 of 1962) and rules made there under
- File annual returns in Form-3, to the concerned State Pollution Control Board on or before the 30<sup>th</sup> day of June following the financial year to which that return relates.

Dos and Don'ts	Procedure for Storage of E-waste		
Do identify all electronic waste items that are recyclable	<ul> <li>E-waste may be stored for a period not exceeding 180 days</li> </ul>		
Make sure that your electronic products are given to an authorized recyclers/dismantlers only but not to informal and unorganized sectors like Local Scrap Dealer/ Rag Pickers.	<ul> <li>Maintain a record of collection, sale, transfer and storage of wastes and make these records available for inspection.</li> <li>Concerned State Pollution Control Board may extend the said period up to 365 days in case the waste need for recycling or reuse.</li> </ul>		
Always disconnect the battery from product.			
Do erase personal data that might be held on a device & back everything up	Categories of Electrical and Electronic Equipment		
Place your Drop-off used electronic items at one place in the generated facility	Consumer electrical and electronics items		
Segregate the e-waste as per the product but don't mix all the electrical and electronic items	Information technology and telecommunication items		
Do not dismantle your electronic products on your own	Ex: Computers and their accessories		
Do not throw electronics in bins having "Do not dispose" sign or garbage bin along with municipal waste.	like printers, typewriters, Telephones and their accessories like cordless, cellular etc.		
Don't leave hard drives in personal electronic devices	E-waste manifest should be done as per Form-6 Form-2 should be followed for maintaining records of E- waste handled or generated		

# **FUTURE PLANS**



- The Department is planning to start an M.Tech Program in Industrial Internet of Things (IIOT).
- Planning to establish advanced lab in MEMS, Smart sensors.
- To set up world class calibration Lab to cater local industrial needs.
- To start workshops/training programs for technical professionals
- To establish Centre of Excellence in Instrumentation and Automation.



