



BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade)

Battapalem, Amalapuram, Indupalli Post, Dr. B. R. A. Konaseema Dist. AP, INDIA - 533201.

Phone No: 08856 - 235416, e - Mail: bvts@bvcgroup.in, Website: www.bvcits.edu.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

No. of UG programs in the department (n) = 01

No. of PG programs in the department (m) = 01

No. of students in UG 2nd Year = U1

No. of students in UG 3rd Year = U2

No. of students in UG 4th Year = U3

No. of students in PG 1st Year = P1

No. of students in PG 2nd Year = P2

No. of students = Sanctioned Intake + Actual admitted lateral entry students

S = Number of Students in the Department = UG1 + UG2 + + UG_n + PG1 + ... + PG_m

F = Total Number of Faculty Members in the Department (excluding first year faculty)

No. of UG Programs in the department = 01.

Year of study	2022 - 23		2021 - 22		2020 - 21	
	Sanction Intake	Actual admitted through Lateral entry students	Sanction Intake	Actual admitted through Lateral entry students	Sanction Intake	Actual admitted through Lateral entry students
2nd Year	120	12	120	12	120	12
3rd Year	120	12	120	12	120	12
4th Year	120	12	120	12	120	12
Sub - Total	360	36	360	36	360	36
Total	396		396		396	



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No. of PG Programs in the department = 01

VLSI			
	2022-23	2021-22	2020-21
Year of Study	Sanction Intake	Sanction Intake	Sanction Intake
1st Year	18	18	18
2nd Year	18	18	18
Total	36	36	36

Student Teacher Ratio (STR) = S / F

Year	CAY	CAYm1	CAYm2
u1.1	132	132	132
u1.2	132	132	132
u1.3	132	132	132
Total UG	396	396	396
p1.1	18	18	18
p1.2	18	18	18
Total PG	36	36	36
Total No. of Students in the Department (S)	432	432	432
No. of Faculty in the Department (F)	22	25	22
Student Faculty Ratio (SFR)	19.64	17.28	19.64
Average SFR	18.85		



Coordinator


HOD
Head of the Department
Electronics & Communication Engineering
B.V.C. Institute of Technology and Science
Battapalem, Amalapuram - 533 201

5.1.1 Provide the information about the regular and contractual faculty as per the Format mentioned below:

Table 5.1.1

Academic Year	Total Number Of Regular Faculty	Total Number Of Contractual Faculty
2022-2023 (CAY)	22	0
2021-2022 (CAYm1)	25	0
2020-2021 (CAYm2)	22	0


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5.2 Faculty Cadre Proportion (25):

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

- F1: Number of Professors required = $1/9 \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students(N) as per 5.1
- F2: Number of Associate Professors required = $2/9 \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students(N) as per 5.1
- F3: Number of Assistant Professors required = $6/9 \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students(N) as per 5.1

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY	2	3	4	0	14	19
CAYm1	2	3	4	0	14	22
CAYm2	2	3	4	0	14	19
Average Numbers	RF1=2	AF1=3	RF2=4	AF2=0	RF3=14	AF3=20

Cadre Ratio Marks:

$$[(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5$$

$$[(3/2) + [(0/4) * 0.6] + [(20/14) * 0.4]] * 12.5$$

$$[(1.5) + [(0 * 0.6)] + [(1.43 * 0.4)]] * 12.5 = 25.00$$

Maximum marks to be limited if it exceeds 25 $AF1 = AF2 = 0$ then zero marks

Maximum marks to be limited if it exceeds 25

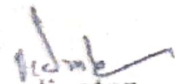
Example:

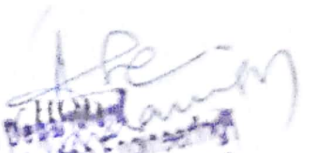
Intake = 60 (i.e. total no. of students = 180); Required number of Faculty: 9; $RF1 = 1$, $RF2 = 2$
and $RF3 = 6$

Case 1: $AF1/RF1 = 1$; $AF2/RF2 = 1$; $AF3/RF3 = 1$; Cadre proportion marks = $(1+0.6+0.4) \times$
 $12.5 = 25$

Case 2: $AF1/RF1 = 1$; $AF2/RF2 = 3/2$; $AF3/RF3 = 5/6$; Cadre proportion marks = $(1+0.9+0.3)$
 $\times 12.5 = \text{limited to } 25$

Case 3: $AF1/RF1 = 0$; $AF2/RF2 = 1/2$; $AF3/RF3 = 8/6$; Cadre proportion marks = $(0+0.3+0.53) \times$
 $12.5 = 10.4$


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5.3 Faculty Qualification (25):

$$FQ = 2.5 \times [(10X + 4Y) / F]$$

where

X is no. of regular faculty with Ph.D.,


Y is no. of regular faculty with M.Tech.,

F is no. of regular faculty required to comply 20:1

Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1

Years	X	Y	F	FQ=2.5 x [(10X +4Y)/F]
2022 - 23 CAY	3	19	21	12.62
2021 - 22 CAY _{m1}	3	22	21	14.05
2020 - 21 CAY _{m2}	3	19	21	12.62
Average Assessment				13.10


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Faculty List for the Academic Year 2022-23

Name of The Faculty Member	Degree (Highest Degree)	Designation	Date on Which Designated as Professor/ Associate Professor	Date of Joining the Institution	Nature of Association
PROFESSORS					
VARA PRASAD GUMMADI MOSES	Ph.D.	Professor	15/07/2011	15/07/2011	REGULAR
KORIMILLI SIRISHA	Ph.D.	Professor	11-12-2019	07-01-2005	REGULAR
SRI SAMBA SIVA RAO DANNINA	Ph.D.	Professor	06-01-2022	06-01-2022	REGULAR
ASSISTANT PROFESSOR					
BODDAPALLI VENKATARAMANA	M.Tech	Assistant Professor	07-02-2012	06-01-2005	REGULAR
SATISH KUMAR RYALI	M.Tech	Assistant Professor	07-01-2014	06-01-2012	REGULAR
VAYARA PRASANNA LAXMI	M.Tech	Assistant Professor	06-02-2014	06-03-2013	REGULAR
RAGHAVA RAO SIRIPALLI	M.Tech	Assistant Professor		06-01-2012	REGULAR
GIRISH PECHETTI	M.Tech	Assistant Professor		06-01-2015	REGULAR
VIJAYALAKSHMI BONAM	M.Tech	Assistant Professor		12-02-2016	REGULAR
SARMA S S V S S R S ADITHE	M.Tech	Assistant Professor		06-01-2018	REGULAR
SUVARNA PARVATHI LAKSHMI NAKKA	M.Tech	Assistant Professor		06-01-2017	REGULAR
VEERA VENKATA SATYANARAYANA KONA	M.Tech	Assistant Professor		28/11/2019	REGULAR
TIKKIREDDI ADITYA KUMAR	M.Tech	Assistant Professor		22/11/2019	REGULAR
VENKATA SATISH DHULIPUDI	M.Tech	Assistant Professor		24/02/2020	REGULAR
VIJAYARAJU GUNJA	M.Tech	Assistant Professor		08-01-2020	REGULAR

VYAGHRI VENKATA SATYANARAYANA MURTHY MANGIPUDI	M.Tech	Assistant Professor		08-01-2020	REGULAR
SWETHA MALLIKA MATTAPARTHI	M.Tech	Assistant Professor		08-01-2020	REGULAR
SAMPATHLAL GHANCHI	M.Tech	Assistant Professor		08-01-2020	REGULAR
JYOTHRIMAI KANCHANAPALLY	M.Tech	Assistant Professor		23/02/2021	REGULAR
DURGA SURI BABU DULAM	M.Tech	Assistant Professor		28/02/2020	REGULAR
VEERA VENKATASIVARAMAKRISHNA KIRAN PAVAN BHAVARAJU	M.Tech	Assistant Professor		11-09-2021	REGULAR
LAKSHMI PRASANNA RUDRA	M.Tech	Assistant Professor		15/11/2021	REGULAR


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5.4 Faculty Retention (25)

No. of regular faculty members in

2020 - 21 CAY_{m2} = 22 (Base Year Faculty)

2021 - 22 CAY_{m1} = 25

2022 - 23 CAY = 22

Item (% of faculty retained during the period of assessment keeping CAY _{m2} as base year)	Marks	Assessment Marks
>=90% of required Faculty members retained during the period of assessment keeping CAY _{m2} as base year)	25	25
>=75% of required Faculty members retained during the period of assessment keeping CAY _{m2} as base year)	20	
>=60% of required Faculty members retained during the period of assessment keeping CAY _{m2} as base year)	15	
>=50% of required Faculty members retained during the period of assessment keeping CAY _{m2} as base year)	10	
<50% of required Faculty members retained during the period of assessment keeping CAY _{m2} as base year)	0	

No. of regular Faculty members in 2022 - 23 (CAY) = 22 and retention ration is 81.81% **Base Year Faculty = 22 (2020 - 21)**

No. of regular Faculty members in 2021 - 22 (CAY) = 25 and retention ration is 100% **Base Year Faculty = 22 (2020 - 21)**

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:: AMALAPURAM

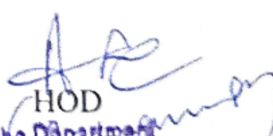
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Faculty Retention (25):

No. of regular faculty members in CAYm1=25 CAY=22

Description	2021-2022	2022-2023
NO.OF FACULTY RETAINED	19	18
TOTAL NO OF FACULTY	22	22
% OF FACULTY RETAINED	86	82
AVERAGE	84	


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Description	2021 - 22	2022 - 23
NO. OF FACULTY RETAINED	22	18
TOTAL NO OF FACULTY	22	22
% OF FACULTY RETAINED	100	82
AVERAGE	91	

K. Sub
Coordinator

(Signature)
HOD

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INNOVATIONS BY THE FACULTY IN TEACHING AND LEARNING

S. No	INNOVATIONS IN TEACHING AND LEARNING	DESCRIPTION	RESOURCE/REFERENCE	IMPACT ON TEACHING & LEARNING
1	Usage of Software	Using software to demonstrate the concepts practically	Xilinx/Mentor Graphics /MATLAB	Faculty will teach the students for Developing the electrical ideas through software usage
2	Usage of ICT Tool	ICT has also become integral to the teaching-learning interaction, through such approaches as replacing chalkboards with using students' own smartphones or other devices where students watch lectures at home on the computer and use classroom time for more interactive exercises.	URL/Links	Students watch lectures at home on the computer and use classroom time for more interactive exercises
3	Teaching via Online Certification courses	For Promoting online student certification courses	Online	Faculty will guide the Students to various courses through online portal
4	Add on Courses	Department offers no. of short-term value addition software programs along with normal classroom teaching during the semester.	Self-designed & well documented	Skill development & improving quality
5	Teaching with Group Discussions, Aptitude Development, Mock Interviews	Our Department Faculty delivering the Courses through Different Teaching Methodologies like, Animations, and through Models, Technical quiz Etc...	Part of our teaching learning process	Helps in all round development of students
6	Use of Teaching Aids	Well prepared PPTs Video Lectures by Department	Quality Web contents	Quality contents & web

Simulations or Demo

S No	Name of the Topic	Faculty Name	Simulation tool used
1	Linear convolution	N S P Lakshmi	MAT lab
2	Schematics & Layouts	M S Mallika	Mentor graphics
3	Gate Level Modelling Using VHDL	D V Satish	Xilinx's
4	IoT Based Home Auto machine	BH.V.V.S.R.K.K. Pavan	Arduino Tool

E-Learning Resources

S. NO	COURSE NAME	YEAR & SEM	FACULTY NAME	TOPIC
1	VLSI Design	III/I	M.S. Mallika	Introduction to VLSI
2	VLSI Design	III/II	M.S. Mallika	Design rules
3	Electronic Devices and Circuit	II/I	M.S. Mallika	H-Parameter Model
4	Electronic Devices and Circuit	II/I	M.S. Mallika	Common Drain Amplifier
5	Linear Digital IC	IV/I	D V Satish	Introduction to Op - Amp
6	Electronic Circuit Analysis	II/II	D V Satish	Oscillators
7	Electronic Circuit Analysis	II/II	D V Satish	Feed Back Amplifiers
8	Embedded Systems	IV/I	T Aditya Kumar	Serial Communications
9	Micro Wave Engineering	III/II	P Girish	Klystron Amplifier
10	Digital Communications	III/I	P Girish	Advantages and Dis Advantages of Pcm
11	Digital Communications	III/I	P Girish	Introduction to Digital Communication
12	Embedded Systems	IV/I	Vyaghri Venkata Satyanarayana Murthy Mangipudi	Tasks, Processes and Threads
13	Embedded Systems	IV/I	Vyaghri Venkata Satyanarayana Murthy Mangipudi	Types of Embedded Systems
14	Mechatronics	IV/I	Vyaghri Venkata Satyanarayana Murthy Mangipudi	Types of Sensors
15	Mechatronics	IV/I	Vyaghri Venkata Satyanarayana Murthy Mangipudi	Elements of Mechatronic Systems
16	Data Communication and Computer Networks	IV/I	Vyaghri Venkata Satyanarayana Murthy Mangipudi	Transmission Control Protocol
17	Random Variable Stochastic Process	II/I	Gunja Vijayaraju	Cross Correlation Function Properties
18	Linear Control Systems	II/II	Gunja Vijayaraju	Mechanical Rotation Systems

E-Learning Resources

S. NO	NAME OF THE COURSE	WE BLINK
1	Signal and Systems	https://www.digitwat.in/nptel/courses/video/108104100/1.5.2.html
2	Random Variables and Stochastic Process	https://nptel.ac.in/courses/117103067
3	Digital Electronics Circuits	https://nptel.ac.in/courses/108105132
4	Optical Communications	https://nptel.ac.in/courses/117104127
5	Computer Networks	https://nptel.ac.in/courses/106105080
6	Wireless Sensors and Networks	https://nptel.ac.in/courses/106105160
7	Analog Electronics and Circuits	https://nptel.ac.in/courses/108105138
8	Digital Communication	https://nptel.ac.in/courses/117101051/3
9	Microprocessor and Microcontroller	https://nptel.ac.in/courses/108105102
10	Vlsi Design	https://nptel.ac.in/courses/106105165/
11	Digital Signal Process	https://nptel.ac.in/courses/108105055
12	Digital Image Processing	https://nptel.ac.in/courses/117105079
13	Control Systems	https://nptel.ac.in/courses/107106081
14	Electrical Measurement and Electronic Instruments	https://nptel.ac.in/courses/108105153
15	Antenna Wave Propagation	https://nptel.ac.in/courses/108101092
16	Embedded Systems	https://nptel.ac.in/courses/106105193
17	Network Analysis	https://nptel.ac.in/courses/108105159

Add on Courses Lectures

S. NO	Name of Add on /Certificate programs offered	Name of the Faculty	Year of offering	Number of students enrolled in the year
1	Embedded with IoT Using Raspberry-Pi	1. Gowthaman Ramprabu 2. Vijaya Lakshmi Bonam	2021-22	129
2	Vlsi Physical Design	1. Boddapalli Venkata Ramana 2. Suvarna Parvathi Lakshmi Nakka	2021-22	145

Animated Based Video Lectures

S. No	Name of the Faculty	Course Name/Code	Topic
1	Raghava Rao Saripalli	Signals and Systems	Fourier transform and Fourier series
2	Satish Kumar Ryali	Antennas and wave propagation	Electromagnetic Spectrum
3	Satish Kumar Ryali	Antennas and wave propagation	Radio waves propagation
4	Veera Venkata Siva rama Krishna Kiran Pavan Bhavaranju	Computer Networks	Basics of Computer Network - 3D animation
5	Naga Subrahmanya Vamsi Mohan Yarra	Optical Communication and networks	Total Internal Reflection Demo: Optical Fibres
6	Naga Subrahmanya Vamsi Mohan Yarra	Optical Communication and networks	Optical Splitter - EXFO animated glossary of Fiber Optics

7	Girish Pecheffi	Microwave engineering	Working of klystron tube
8	Swecha Mallika Mantaparthi	Electronics Device and Circuits	Working of Transistor
9	Swecha Mallika Mantaparthi	Electronics Device and Circuits	Working of Transistor as a amplifier
10	Raghava Rao Saripathi	Signals and Systems	Laplace Transformer
11	Swecha Mallika Mantaparthi	Very Large-Scale Integrated Circuit Design	Fabrication of an IC
12	Vayara Prasanna Laxmi	Linear IC Applications	Working of Op Amp
13	Vayara Prasanna Laxmi	Linear IC Applications	Op Amp as An Integrator
14	Venkata Satish Dindiyudi	Electronic Circuit Analysis	Working of Class, An Amplifier

Model based Learning

S.NO	NAME OF THE FACULTY	NAME OF THE COURSE	MODEL BASED LEARNING
1	R Satish Kumar	Antenna Wave Propagation	Micro Strip Patch Array Antenna
2	Ms Mallika	Electronic Devices And Circuit	Cathode Ray Oscilloscope
3	Ms Mallika	Electronic Devices And Circuit	Function Generator

[Signature]
Coordinator

[Signature]
HOD

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5.6 Faculty as participants in Faculty development/training activities/STTPs (15):

S. No.	NAME OF THE FACULTY	CAY M1 (2021-2022)	CAY M2 (2020-2021)	CAY M3 (2019-2020)
1	VARA PRASAD GUMMADI MOSES	3		5
2	GOWTHAMAN RAMPRABHU			
3	KORIMILLI SIRISHA		3	
4	BODDAPALLI VENKATARAMANA	5	5	5
5	NAGASUBRAHMANYA VAMSI MOHAN YARRA	3	5	5
6	SATISH KUMAR RYALI	3	5	3
7	VAYARA PRASANNA LAXMI	5	5	3
8	RAGHAVA RAO SIRIPALLI			
9	GIRISH PECHETTI	5	5	5
10	VIJAYALAKSHMI BONAM			
11	SARMA S S V S R S ADITHE	5	5	5
12	SUVARNA PARVATHI LAKSHMI NAKKA			
13	VEERA VENKATA SATYANARAYANA KONA		5	
14	TIKKIREDDI ADITYA KUMAR	5	5	
15	VENKATA SATISH DHULIPUDI	5	5	
16	VIJAYARAJU GUNJA	3	5	
17	VYAGHIRI VENKATA SATYANARAYANA MURTHY MANGIPUDI			
18	SWETHA MALLIKA MATTAPARTHI	5		
19	SAMPATHLAL GHANCHI			
20	JYOTHIRMAI KANCHANAPALLY	5		
21	DURGA SURI BABU DULAM			
22	VEERAVENKATASIVARAMAKRISHNA KIRAN PAVAN BHAVARAJU	5		
23	LAKSHMI PRASANNA RUDRA	5		

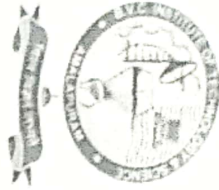
24	KRANTHI KUMAR DONDAPATI			
25	AJITA LAKSHMI KANCHIRLA			
26	SRI SAMBA SIVA RAO DANNINA			
27	TULASI DUNARAYINA			5
28	RAVI SANKAR CHEKKATLA			5
	SUM	62	53	41
RF = Number of Faculty required to comply with 20:1				
Student Faculty		21.60	21.60	21.60
Assessment [3*(Sum / 0.5RF)]		17.22	14.72	11.39

Average assessment over 3 years: 14.44


Coordinator


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**FACULTY AS PARTICIPANTS IN FACULTY DEVELOPMENT/TRAINING
ACTIVITIES/STTPS (15):**

S. No	Academic Year	Number of faculty who attended FDP	Number of Events Attended
1	2021-2022	14	54

List of Faculty attended FDP in the AY 2021 – 22

S. No.	NAME OF THE FACULTY
1	VARA PRASAD GUMMADI MOSES
2	BODDAPALLI VENKATARAMANA
3	NAGASUBRAHIMANYA VAMSI MOHAN YARRA
4	SATISH KUMAR RYALI
5	VAYARA PRASANNA LAXMI
6	GIRISH PECHETTI
7	SARMA S S V S R S ADITHE
8	TIKKIREDDI ADITYA KUMAR
9	VENKATA SATISH DHULIPUDI
10	VIJAYARAJU GUNJA
11	SWETHA MALLIKA MATTAPARTHI
12	JYOTHRIMAI KANCHANAPALLY
13	VEERAVENKATASIVARAMAKRISHNA KIRAN PAVAN BHAVARAJU
14	LAKSHMI PRASANNA RUDRA

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Electronics & Communication Engineering
B.V.C. Institute of Technology and Science
Badapalem, Amalapuram - 533 201

HOD



JONNA VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE

(Approved by AICTE, Permanently Affiliated to P.U.T.R., Telangana, Accredited by NAAC with 'A' Grade)

Badlapalem, Amalapuram, Tadupalli Post, D.V. R. A. Konaseema Dist. AP, INDIA - 533201.

Phone No: 085856 - 235416, e - Mail: hr@jvce.org, Website: www.jvce.edu.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

S. No	Academic Year	Number of faculty who attended FDP	Number of Events Attended
1	2020-2021	11	59

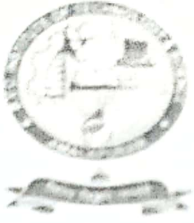
List of Faculty attended FDP to the AY 2020 - 21

S. No.	NAME OF THE FACULTY	CAV M2 (2020-2021)
1	KORIMILLI SIRISHA	3
2	BODDAPALLI VENKATARAMANA	5
3	NAGASIBRAHMANVA VAMSI MOHAN VARRA	5
4	SATISH KUMAR RYALI	5
5	VAVARA PRASANNA LAXMI	5
6	GIRISHI PICHETTI	5
7	SARMA S S V S R S ADITHI	5
8	VEERA VENKATA SATYANARAYANA KONA	5
9	TEKKIREDDI ADITYA KUMAR	5
10	VENKATA SATISH DHILLIPUDI	5
11	VJAYVARAJU GUNJA	5

Coordinator

[Signature]
Coordinator

Head of the Department
Electronics & Communication Engineering
& C, Institute of Technology and Science
Kondapuram, Amalapuram - 533201



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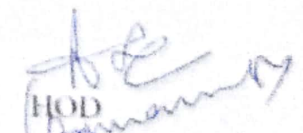
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

S. No	Academic Year	Number of faculty who attended FDP	Number of Events Attended
1	2019-2020	9	42

List of Faculty attended FDP in the AY 2019 – 20

S. No.	NAME OF THE FACULTY
1	VARA PRASAD GUMMADI MOSES
2	BODDAPALLI VENKATARAMANA
3	NAGASUBRAHMANYA VAMSI MOHAN YARRA
4	SATISH KUMAR RYALI
5	VAYARA PRASANNA LAXMI
6	GIRISH PECHETTI
7	SARMA S S V S R S ADITHE
8	TULASI DUNABOYINA
9	RAVI SANKAR CHEEKATLA


Coordinator


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Sponsored Research

YEAR	PROJECT TITLE	DURATION	FUNDING AGENCY	AMOUNT
2021 - 22	AUTOMATION SYSTEMS	6 MONTHS	BVC EDUCATION SOCIETY	1,71,600
2020 - 21	HOME AUTOMATION SYSTEMS	6 MONTHS	BVC EDUCATION SOCIETY	1,63,200
2019 - 20	HEALTH SAFETY & SECURITY SYSTEMS	6 MONTHS	BVC EDUCATION SOCIETY	1,50,000

Consultancy (from Industry)

YEAR	PROJECT TITLE	DURATION	FUNDING AGENCY	AMOUNT
2021 - 22	ELECTRONIC DISPLAY BOARDS	8 MONTHS	ASN COLLEGE	33,500
2019 - 20	AQUA POND SURVEILLANCE SYSTEMS	9 MONTHS	S M AQUA AGENCIES	1,17,000

BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY
:: AMALAPURAM


Sponsored
Research

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

5.7.2 Sponsored Research (5):

YEAR	PROJECT TITLE	DURATION	FUNDING AGENCY	AMOUNT
2021-2022	AUTOMATION SYSTEMS	6 MONTHS	BVC EDUCATION SOCIETY	1,71,600
2020-2021	HOME AUTOMATION SYSTEMS	6 MONTHS	BVC EDUCATION SOCIETY	1,63,200
2019-2020	HEALTH SAFETY & SECURITY SYSTEMS	6 MONTHS	BVC EDUCATION SOCIETY	1,50,000

Coordinator


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... .. Development Skill Activities during the academic year 2021-22.

Table 5.7.3.1.1 Development activities in AY 2021-2022:

S No	Title of product	Guidance given by the faculty Guided	Outcome of the project
1	Location Based Vehicle Speed Controlling Using RF	Mrs V Prasanna Laxmi	To Reduce the Accidents and Vehicle Speed Control
2	lot Based Water Management System Using Raspberry PI	Mr. V V Satyanarayana Kona	Reduce the Wastage of water

- Students appeared to Various Product Development Skill Activities during the academic year (2020-21).

Table 5.7.3.1.2 Development activities in AY 2020-2021:


S No	Title of product	Guidance given by the faculty Guided	Outcome of the project
1	IoT Based Waste Management System for Smart Cities	Mr. V V Satyanarayana Kona	Separate liquid from waste
2	Fire Fighting Robot	Dr. K Sirisha	To Control the fire automatically

- Students appeared to Various Product Development Skill Activities during the academic year (2019-20).

Table 5.7.3.1.3 Development activities in AY 2019-2020:

S No	Title of product	Guidance given by the faculty Guided	Outcome of the project
1	Insightful Road Traffic	Mr Y.N.S Vamsi Mohan	A Step Towards Traffic Collision
2	Agriculture & Field Monitoring Using IoT	Mr A Srinivasa Rao	Farmer will be able to know remotely soiled Minerals


Coordinator


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

5.7.4 Consultancy (from Industry) (5):

Provide a list with Project Title, Funding Agency, Amount and Duration Funding amount (Cumulative during assessment years)

YEAR	PROJECT TITLE	DURATION	FUNDING AGENCY	AMOUNT
2021-2022	ELECTRONIC DISPLAY BOARDS	8 MONTHS	ASN COLLEGE	33,500
2019-2020	AQUA POND SURVEILLIANCE SYSTEMS	9 MONTHS	S M AQUA AGENCIES	1,17,000


Coordinator


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SUMMARY OF FACULTY PUBLICATIONS

S. No.	Description	2022-2023	2021-2022	2020-2021
1	Books Published	1		
2	Book Chapter Contribution	1		
3	No. of. conferences attended	0	2	5
4	No. of Publications in journals	5	9	13
5	Patent Publications			2
6	NPTEL Certification	8	2	2
7	citations	21	99	38

Summary of Books Published

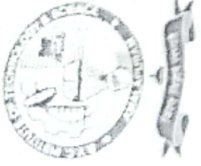
S. No.	Book Titled	Publications	Name of the Authors	ISBN
1	DIGITAL IMAGE PROCESSING	SCIENTIFIC INTERNATIONAL PUBLISHING	Mr. SARMA S S V S R S ADITHE Mr. BH.V.V.S.R.K.K. PAVAN Mr. B V RAMANA Mr. S RAGHAVA RAO	978-93-5625-600-2

Summary of Book Chapter Contribution

S. No.	Published a Book chapter	Book Titled	Publications	Author	Chapter ID
1	A Frame Work For Fully Automated Home Using IoT Reliable Protocol Stack and Smart Gateway	Automation and Control Engineering	ESN Publications	Mr. SARMA ADITHE	61663

Summary of Conferences Attended

Academic Year	International	National	Total
2022-23			0
2021 -22	2		2
2020-21		5	5



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Conference Publications in 2021 -22:

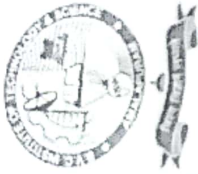
1. Mr. Sarma S V S R S Adithe, "Networking reliability approach for energy analysis in wireless sensor nodes with edge computing techniques" The International Conference on I-SMAC, IEEE Xplore Part Number: CFP21OSV-ART; ISBN: 978-1-6654-2642-8
2. Mr. B.V.V.S.R.K. K Pavan, "An Analysis of Electro Encephalogram Recording Systems and Signal Processing Techniques". IEEE International Conference on Distributed Computing and Electrical Circuits and Electronics.

Conference Publications in 2020 -21:

1. Mr. B V Ramana, "Data Transmission of submarine Monopole Antenna". National Conference on Recent Trends Technologies in engineering and Basic Science-2020.
2. Mr. G Ramprabu, "Data Transmission of submarine Monopole Antenna". National Conference on Recent Trends Technologies in engineering and Basic Science-2020.
3. Mr. R Satish Kumar, "Design and Analysis of Sierpinski Fractal WB Antenna with Double DGS for Wireless Applications". National Conference on Recent Trends Technologies in engineering and Basic Science-2020.
4. Dr G M V Prasad, "Design and Analysis of Sierpinski Fractal WB Antenna with Double DGS for Wireless Applications". National Conference on Recent Trends Technologies in engineering and Basic Science-2020.
5. Mr. B V Ramana, "Design and Analysis of Sierpinski Fractal WB Antenna with Double DGS for Wireless Applications". National Conference on Recent Trends Technologies in engineering and Basic Science-2020.


Coordinator


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Summary of Journal Publications

Academic Year	SCI	SCOPUS	SPRINGER	Other	Total
2022 - 23	1	1	1	2	5
2021 - 22	1			8	9
2020 - 21		5	1	7	13

List of Publications in AY 2020 - 21

S.No.	Name of Publication	Title of paper	Name of the author/s	ISBN/ISS N number
1	SCOPUS	COORDINATION SCHEMES FOR RESOURCE ORIENTED OPERATION IN WIRELESS SENSOR ACTUATOR NETWORKS WITH QUEUEING THEORY	Dr. RAMPRABU.G	2224-2708
2	SCOPUS	CASCADING MODEL IN UNDERWATER WIRELESS SENSORS USING FLOW AND NETWORK LEVEL ANALYSIS	Dr. RAMPRABU.G	2192-6662 / 2192-6670
3	SCOPUS	EFFICIENT AND SAFE APPLICATION FOR FACIAL TRANSFER WITH DEEP GENERATIVE ADVERSIAL NETWORK	Dr. RAMPRABU.G	2364-8228
4	SCOPUS	AN EFFICIENT ENERGY CONSERVATIVE PROTOCOL IN WIRELESS SENSOR NETWORK	Dr. RAMPRABU.G	1550-4859 / 1550-4867
5	SCOPUS	A QUEUEING THEORY BASED EFFICIENT APPROACH FOR FAIR NETWORKING CAPABILITIES IN UNDERWATER SENSOR NODES	Dr. RAMPRABU.G	1550-1477
6	SPRINGER	COORDINATION SCHEMES FOR RESOURCE ORIENTED OPERATION IN WIRELESS SENSOR ACTUATOR NETWORKS WITH QUEUEING THEORY	Dr. RAMPRABU.G	2224-2708
7	INTERNATIONAL JOURNAL OF INNOVATIVE	DESIGN AND ANALYSIS OF SIERPINSKI FRACTAL WB	BODDAPALLI VENKATA RAMANA	2320-6710



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

	RESEARCH IN SCIENCE ENGINEERING TECHNOLOGY INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE ENGINEERING TECHNOLOGY	ANTENNA WITH DOUBLE DGS FOR WIRELESS APPLICATIONS		
8	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE ENGINEERING TECHNOLOGY	DESIGN AND ANALYSIS OF SIERPINSKI FRACTAL WB ANTENNA WITH DOUBLE DGS FOR WIRELESS APPLICATIONS	GMV PRASAD	2320-6710
9	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE ENGINEERING TECHNOLOGY	DESIGN AND ANALYSIS OF SIERPINSKI FRACTAL WB ANTENNA WITH DOUBLE DGS FOR WIRELESS APPLICATIONS	R. SATISH KUMAR	2320-6710
10	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE ENGINEERING TECHNOLOGY	DESIGN OF IoT BASED AUTONOMOUS VEHICLE WITH THE AID OF ARTIFICIAL INTELLIGENCE COMPUTERIZED VISION	SARMA ADITHE	2320-6710
11	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE ENGINEERING TECHNOLOGY	DESIGN OF IoT BASED AUTONOMOUS VEHICLE WITH THE AID OF ARTIFICIAL INTELLIGENCE COMPUTERIZED VISION	V.PRASANNA LAXMI	2320-6710
12	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE ENGINEERING TECHNOLOGY	DESIGN OF IoT BASED AUTONOMOUS VEHICLE WITH THE AID OF ARTIFICIAL INTELLIGENCE COMPUTERIZED VISION	GIRISH PECHETTI	2320-6710
13	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE ENGINEERING TECHNOLOGY	DESIGN OF IoT BASED AUTONOMOUS VEHICLE WITH THE AID OF ARTIFICIAL INTELLIGENCE COMPUTERIZED VISION	Dr K SIRISHA	2320-6710



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

List of Publications in AY 2021 – 22

S. No.	Name of Publication	Title of paper	Name of the author/s	ISBN/ISSN number
1	SCI	TRAFFIC ANALYSIS IN VEHICULAR ADHOC NETWORKS USING FLOW AND NETWORK LEVEL ANALYSIS	Dr. RAMPRABU.G	2192-6662 / 2192-6670
2	INTERNATIONAL JOURNAL OF MICROWAVE AND OPTICAL TECHNOLOGY	DESIGN OF APERTURE COUPLED LOG PERIODIC DIELECTRIC RESONATOR ANTENNA FOR X BAND APPLICATIONS	BODDAPALI VENKATA RAMANA	1553-0396
3	JOURNAL OF INTERDISCIPLINARY CYCLE RESEARCH	AREA EFFICIENT IMPROVED BINARY COUNTER USING SCALABLE SORTING NETWORK	GIRISH PECHETTI	0022-1945
4	JOURNAL OF INTERDISCIPLINARY CYCLE RESEARCH	AREA EFFICIENT IMPROVED BINARY COUNTER USING SCALABLE SORTING NETWORK	R. SATISH KUMAR	0022-1945
5	JOURNAL OF INTERDISCIPLINARY CYCLE RESEARCH	AREA EFFICIENT IMPROVED BINARY COUNTER USING SCALABLE SORTING NETWORK	TIKKIREDDY ADITYA KUMAR	0022-1945
6	INTERNATIONAL JOURNAL OF ENGINEERING IN ADVANCED RESEARCH SCIENCE AND TECHNOLOGY	ECG ENCODING USING LOW DENSITY BASED EFFICIENT FUZZY PSO AND GOLOMB-RICE	R SATISH KUMAR,	2352-8648
7	INTERNATIONAL JOURNAL OF ENGINEERING IN ADVANCED RESEARCH SCIENCE AND TECHNOLOGY	ECG ENCODING USING LOW DENSITY BASED EFFICIENT FUZZY PSO AND GOLOMB-RICE	TIKKIREDDY ADITYA KUMAR	2352-8648
8	INTERNATIONAL JOURNAL OF ENGINEERING IN ADVANCED RESEARCH	RELIABLE AND LOW DENSITY BASED ERROR CORRECTION IN SRAM CELLS	Dr K SIRISHA	2352-8648



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	SCIENCE AND TECHNOLOGY			
9	INTERNATIONAL JOURNAL OF ENGINEERING IN ADVANCED RESEARCH SCIENCE AND TECHNOLOGY	RELIABLE AND LOW DENSITY BASED ERROR CORRECTION IN SRAM CELLS	V PRASAN NA LAKSHMI	2352 -8648

List of Publications in AY 2022 - 23

S. No.	Name of Publication	Title of paper	Name of the authors	ISBN/ISSN number
1	SCI	Es ECC-SDN: ATTACK DETECTION AND CLASSIFICATION MODEL OF MANET	Dr K SIRISHA	2096-5451 / 2576-2095
2	SCOPUS	DESIGN OF CAPACITIVE COUPLED LOG PERIODIC DIELECTRIC RESONATOR ANTENNA FOR X BAND APPLICATIONS	BODDAPALLI VENKATA RAMANA	970-2555
3	SPRINGER	CONGESTION AWARE LOW POWER ON CHIP PROTOCOLS WITH NETWORK ON CHIP WITH CLOUD SECURITY	T ADITYA KUMAR	1738-7906
4	UGC CARE	DENSITY OPTIMIZED HIGH THROUGHPUT EFFICIENT BISTIMPLEMENTATION USING MISC	T ADITYA KUMAR	22784632
5	UGC CARE	DENSITY OPTIMIZED HIGH THROUGHPUT EFFICIENT BISTIMPLEMENTATION USING MISC	SARMA ADITHE	22784632


Coordinator


Head of the Department
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


Summary of Patent Publications

S. No.	NAME OF THE FACULTY	TITLE	YEAR
1	Dr. G RAMPRABHU	Smart Guardian: Help Parents to Keep Kids in Virtual Boundary Sounding Using RSSI and Wireless Communication System	2020 - 21
2	SARMA S S V S S R S ADITHE	IOT Based Crop Protection System Against Attacking from Wild Animals	2020 - 21

Summary of NPTEL Certification Courses & FDP

S. No.	Academic Year	No. of NPTEL Certifications
1	2022-2023	8
2	2021-2022	2
3	2020-2021	2


Coordinator


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

5.8 Faculty Performance Appraisal and Development System (FPADS) (30)

The college is having well defined faculty performance appraisal and development system (FPADS). Awards are instituted for the faculty as well as supporting staff members. These awards are in the form of Promotions, increments etc. Staff members are selected for these awards based on their performance, conduct and commitment in their academic activities as well as their involvement in the developmental activities of the department and the college

Academic Performance for 100 marks based on Self Appraisal form for faculty

In the self-appraisal forms, the parameters are

- i) Academic Performance and parameter
- ii) Student Related Trainings
- iii) Personal Growth/ Research Contribution & Life Long Learning and parameter
- iv) Administrative Contribution at institution level/ Department level appraisal form.

The self-appraisal forms submitted by faculty are reviewed by HOD and Principal to prepare performance appraisal on the same parameters/ sub parameters.

Its implementation and effectiveness:

5.8.1 Pass Percentage Incentives:

➤ As a part of Performance appraisal, based on High Pass Percentage in the courses taught by the faculty, the incentives are given to those faculty as mentioned below.

- Above 90% pass percentage – Rs.3,000/-
- 100% pass percentage – Rs.5,000/-

Table 5.8.1.1 Summary of Pass Percentage Incentives

A Y	No. of Courses with 100% pass	No. of Courses with >90% pass	Amount Spent in Rs.
2022-2023		6	18,000
2021-2022		7	21,000
2020-2021	1	8	29,000
2019-2020	-	11	33,000

- Based on feedback and Result in examinations, non-financial incentives/measures are given to the faculty as mentioned below. Letters of appreciation are given to the faculty who get above 80 % Result and above 90% Result in Examinations and Good Feed Back

Table 5.8.1.2. Summary of Appreciation to Faculty

S. No.	No. of Letters	Summary			
		2022-23	2021-22	2020-21	2019-20
1	No. of Faculty received Letters of Appreciation	6	10	13	14

5.8.2 Publication Incentives:

➤ Based on publication of research works in Journals by the faculty, the incentives are given to those faculty as mentioned below.

- SCI Journals – Rs. 20,000/-
- Scopus Journals – Rs.5,000/-
- Patents – Rs.5,000/-

Table 5.8.2.1 Publication Incentives to Faculty

S No	No. of Publications	Amount Spent in Rs.		
		2022-2023	2021-2022	2020-2021
1	SCI	20000	20000	
2	SPRINGER	5000		
3	SCOPUS	5000		13,000
4	PATENTS			10,000
Total		30,000	20,000	23,000

- Based on publication of Text Books / Chapters by the faculty, the incentives are given to those faculty as mentioned below

Table 5.8.2.2 Publication of Text Book /Book Chapter to Faculty

A Y	2022-2023	2021-2022	2020-2021
Text Books	10000		
Chapters	6000		
Total	16,000		

5.8.3 NPTEL Certification Incentives:

- Based on performance in NPTEL Online Certification Courses, the incentives are sponsored to those faculty as mentioned below
- Faculty Who Successfully complete the Course those faculty will get 100% of registration fee 1100/-
- Elite + gold 2000/-

Table 5.8.3. Summary of NPTEL Certification Incentives

A Y	2022-2023	2021-2022	2020-2021
No. of NPTEL Certifications	8	2	2
Total	9,700	2,200	2,200

5.8.4 FDP Training Programs Incentives:

- Based on FDP training programs conducted or attended by the faculty, the incentives are sponsored to those faculties as mentioned below.

- Registration fee
- 50% of TA
- If online Internet Charges

Table5.8.4. Summary of FDP Incentives

A Y	No. of FDPs attended by Faculty	Amount Spent in Rs.
2021-2022	51	10,200
2020-2021	60	12,000
2019-2020	41	8,200

5.8.5 Professional Society membership Incentives:

- Based on faculty Membership in Professional Bodies, the incentives are sponsored to those faculties as mentioned below.
- 50% Registration fee

Table5.8.5 Summary of Professional Society membership Incentives

Academic Year	No. of Faculty Registered	Amount Spent in Rs.
2022-23	1	4000
2021-22	-	-
2020-21	-	-

5.8.6 Faculty Development Programs (FDP) / Faculty Trainings - Organized

To facilitate up-gradation of knowledge, skill and intends to provide opportunities for induction training to teachers employed in disciplines Engineering & Technology. Institution along with Department of Electronics and Communication Engineering conducted FDP's, workshops to the faculty.

Table5.8.6 Table list of Faculty FDP/Workshop Organized

S.No	Academic Year	Name Of the FDP/Workshop	Resource Person/Industry Details
1	2021-2022	Internet of Things and Advanced Analytics	Ch. Badrinath, Consulting Director
2	2021-2022	Advanced Java	HighQ Labs Private Limited
3	2019-2020	Latest Trends in Embedded	Mr. Tomesh Jain, Reward.

4	2019-2020	Systems Advanced Internet of Things with Machine Learning	Dr. Mohammed Arifuddin Sohel, HOD, Dept. of ECE, MJCET.
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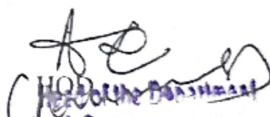
5.8.7 Faculty as Resource Person: Interaction with outside world

Faculty Member, apart from teaching his/her own students in classrooms and laboratories, they can go as a resource person for delivering a guest lecture, workshops, FDPS etc. The Department of Electronics and Communication Engineering faculty went to the following Interactions.

S. No	Name of the faculty	College Name	Date	Interaction with outside	Topic Delivered
1	T Aditya Kumar	Bhimavaram Institute of Engineering and Technology	28-10-2022	Guest Lecture	Embedded Systems

Table 5.8.7 List of Faculty as Resource Person


Coordinator


HOD of the Department
Electronics & Communication Engineering
B.V.C. Institute of Technology and Science
Ballapalem, Amalapuram - 535 201




5.9 Provision of visiting /Adjunct/Emeritus Faculty etc.:

The College has a policy for recruiting the visiting/adjunct faculty members at UG level based on requirements of the program. The teacher shall also associate other members of the faculty in working on the assignments. Where members of staff are associated in the assignment undertaken by a faculty, the associated staff members shall be paid honorarium by the faculty appropriately, in the presence of the Principal/Chairman/ Correspondent.

Provision of inviting/having visiting/adjunct faculty Provision of inviting/having visiting/adjunct faculty Minimum 50 hours – 60 hours per year interaction with adjunct faculty from industry/retired professors etc. interaction in a year will result in 3 marks for that year; 3 marks x 3 years = 9

Academic Year	Name of Industry Experts	Designation	Name of the Course	Hours of Interaction
2020-2021	Mr. K Pradeep	Technical Engineer, SV Technologies	VLSI	56
2021-2022	Mr. Chintala Venkata sai Avinash	Technical Engineer, Coign Edu & IT Services	IOT	30
	Mr. Bada Hari Krishna Reddy	Technical Engineer, Coign Edu & IT Services	VLSI	30
2022-2023	Mr. K Anand Mohan	Embedded Engineer, Honey Well Technology solutions	IOT	60


Coordinator


Head of the Department
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