

Dr.D.Aruna Kumari **Professor & Programme Coordinator Department of Computer Science and Engineering**





Welcome to NBA Expert Team

25th - 27th February 2022



Presentation Content

Introduction

- Department Achievements
- **Criteria 1 Vision, Mission and PEO's**
- **Criteria 2 Program Curriculum and Teaching Learning Processes**
- Criteria 3 Course Outcomes and Program Outcomes
- Criteria 4 Students' Performance
- Criteria 5 Faculty Information and Contributions
- **Criteria 6 Facilities and Technical Support**
- Criteria 7 Continuous Improvement
- ***** OBE Implementation in the Department





Introduction

Programs Offered by the Department

Programs	Course	Year	Intake
		1999-2000	40
		2001-02	60
Computer Science and Engineering	B.Tech. (CSE)	2011-12	120
		2012-13	180
		2014-15	240
Computer Science and Engineering	M.Tech. (CSE)	2011	18

Department Achievements



- NBA has accredited UG Program
 - First Cycle in the A.Y 2011-12 valid for three years
 - Second Cycle in the A.Y 2018-19 valid for three years
- IIT Bombay -Remote Center for Faculty Development Programs
- Virtual Labs, IIIT Hyderabad
- Center of Excellence in Data Analytics with Qlik and Center of Excellence in Software Testing with Virtusa
- JNTUH Recognized Research Centre
- R&D Zonal Center, Bennett University
- Received grant of Rs. 10 Lakhs from RCI-DRDO and Rs. 2.75 Lakhs JNTUH TEQIP-III
- 13 MoU's with Industries
- 3 Professional Chapters and 5 Technical Clubs
- Organized International Conference on Computational Intelligence and Data Engineering during 4th- 6th July 2019
- Organized DST Sponsored Inspire Internship Science Camp in November 2018
- Organized DST-SERB Sponsored National Conference on RTBACC

Faculty Achievements



- Dr.B.Vijayakumar , Dr.D.Aruna Kumari, Professors reviewers and Session Chairs for IUCEE ICTIEE Conference
- Dr.D.Aruna Kumari , Professor -Session Chair for the AICTE sponsored online National Conference for Women Innovations in Science, Engineering and Technology held during 20th & 21st November 2020.
- Mr.R.R.S.Ravi kumar, Asst. Professor -reviewer for the International Journal of System Assurance Engineering & Management (IJSA), Springer and for the Intelligent Automation And Soft Computing, Techsciences, USA
- Mr.Y.Praveen Kumar & PKV Sarma, Asst. Professors are Certified OCJP & ISTQB under the MoU of Virtusa Polaris in 2018.
- Mr. KSRK Sarma, Assistant Professor awarded Doctoral degree by JNTU Anantapur on 15.02.2022
- Ch..Deepika, Assistant Professor, in CSE Department received a certificate of appreciation for mentoring students in the Project "Build-a-thon by Oracle" in association with TASK.

Faculty Achievements



- K.Srinivasa Rao had delivered keynote address in the State Level Webinar on "Importance of Software Engineering", TTWRDC for Women Asifabad at Komaram Bheem on 20/10/2021
- A. Swarna & D. Venkateshwarlu, Assoc. Professors are Certified CCNA Cyber Security SPOC from CISCO Networking Academy
- KSRK Sarma ,Asst. Professors Published a book on "Web Technologies ", "C& Data Structures "Sci Tech Publishers.
- Mr.Y.Praveen Kumar, Asst. Professor Published a book on Programming for Problem Solving, INSTA publishing
- Ch.Deepika & B.Sailaja, Asst. Professors are certified SPOC from Oracle Academy
- Sixteen faculty members registered for Ph.D. program in various universities.



Student Achievements

- Mr. Sameer Deasi of (2017-21 batch) selected in JIVA with a package of **14.5LPA**
- Mr. Sriteja & Mr. Pradhumna of (2016-20 batch) selected in CISCO with a package of 11.3LPA
- Mr. L.Nishit Reddy, & team published a patent on topic "The stored Grains In Warehouse By Continuously monitoring the temperature , Co2, Humidity in the Warehouse" with **Patent ID 202041049928** on 04-12-2020
- Mr. Nishit Reddy & Team received granted Rs. 2,15,000/- from NIC in Association with AICTE and published patent on Monstograin
- Ms. Manogna & Team has won 1st place and received Rs 1,00,000/- in Smart India Hackathon-2020
- Mr. Y.Rohit Received Young Innovator Award during 2018-19 from T-Hub
- Mr. Ashfaq & Team has won 2nd place in Smart India Hackathon-2019
- Mr. Venkatesh of 2nd CSE Selected as Lead of Google Developers Student Clubs



Student Achievements

- Mr. Akhil and team has stood in 3rd Position in JHub Hackathon league
- Mr. Sameer Desan and team Awarded 1st prize for EPICS-CPBL Poster at ICTIEE 2020
- Mr. Lalith Akash & Team has won 3rd Position with Prize money: 0.3 Bitcoin(4.2 Lakh INR) in Post-Covid-Hack, The Global Blockchain Hackathon organised by RSK & IOV Labs(November 2020)
- Mr. Lalith Akash & Team has won 1st prize in Hackathon by St. Peter Engineering College(2021)
- Mr. Harshith Reddy & Team won 1st Prize in IASF 2020- organized by Anurag University
- Mr. Saketh Reddy & Ms. Vaishnavi won 3rd prize in Hack in city organized by IIT Gwalior



Criteria-1: Vision, Mission and Program Educational Objectives

VISION

To produce the globally competent professionals in the field of Computer Science and Engineering

MISSION

M1: To provide state-of-the-art facilities in Computer Science and Engineering, through

Innovative teaching learning practices

M2: To promote research and development in the frontier areas of Computer Science and Engineering and to work in interdisciplinary fields

M3: To enrich students with discipline and high integrity to serve the society and to

inculcate the spirit of ethical values and leadership abilities

M4: To establish a collaborative environment between Industry and Academia



Program Specific Outcomes and Program Educational Objectives

PEO1	Enhance the employability of the graduates in Software industries/ Public sectors/ Research organizations					
PEO2	Acquire analytical and computational abilities to pursue higher studies for professional growth					
PEO3	Work in multidisciplinary project teams with effective communication skills and leadership qualities					
PEO4	Develop professional ethics among the students and promote Entrepreneurial abilities					
PSO1	The ability to design and develop Algorithms to provide optimized solutions for societal needs.					
PSO2	Apply standard approaches and practices in Software Project Development through trending technologies.					

Criteria-2: Process of Designing Curriculum





Components of Curriculum



Course Component	Curriculum Content (% of total number of credits of the program)	Total number of contact hours	Total Number of credits
Humanities and Social Sciences (HS) subjects: English, Management and the courses dealing with personality development	8.85	21	17
Basic Sciences (BS) subjects : Mathematics, Physics and Chemistry	17.71	47.00	34
Engineering Sciences (ES): Engg. Workshop, Drawing, Fundamentals of Computer Science and courses dealing with the basics of Electrical / Electronics/ Mechanical engineering	10.42	29	20
Professional Core (PC) subjects: Courses dealing with the concerned engineering branch	42.19	106.00	81
Professional Elective (PE) subjects. The students opt electives offered by the department	7.29	17.00	14
Open Elective (OE) subjects.: Courses offered by the other branches representing technically important subjects from emerging areas.	4.69	12	9
Project Work/ Mini Project.	6.77	15	13
Internship/Seminar	2.08	6.00	4
Mandatory Courses (MC)/Value added courses	0	7	Nil
Total No. of Credits			192

Teaching-Learning Process





7

Pedagogical Initiatives







Guest Lecture on **"REDHAT LINUX"** on 24/02/2020 by Mr. Aneesh PV , Manager, Prodevans Tech., Bangalore



Dr. Raghava Mutharaju , Associate Professor , IIIT Delhi , delivered online lecture on "Computational Intelligence and Blockchain Technology"



Evaluation Procedure





Quality of Student Projects

Institute of Technology

S. No	Performance Indicator	Marks
1	Title & Feasibility	5
2	Abstract & Depth of Knowledge	5
3	Presentation	5

Review-II

Review-I

S. No.	Performance Indicator	Marks
1	Design and analysis	5
2	Implementation strategy	3
3	Expected Result	2
4	Presentation	5
	Roviow-III	•

Review-III

S. No.	Performance Indicator	Marks
1	Implementation / Execution	5
2	Results	5
2	Final report	5
4	Overall presentation	5

External Project Viva-voce

(150M)

Process of Project Batches identification and

NBA Expert Team Visit



Initiatives Related to Industry Interaction







S. No	Industry
1	Oracle Academy
2	Qlik
3	CISCO

Centre of Excellence in Data Analytics with Qlik

Centre of Excellence in Software Testing with Virtusa

Industry Supported Labs



Impact of Industry Institute Interaction

✓ Involvement of Industry experts in the design of curriculum ,Partial delivery of the courses

✓ Guest lectures, FDP's & Workshops by Industry experts

✓ Industrial visits, Internships, Industry projects & Placements



Sameer Desai completed

Internship

3rd B.tech students attended Industrial visit INCOIS at Hyderabad on 14th March 2020

Dept of CSE

Sai Teja completed

Internship

NBA Expert Team Visit



MoU's







Mapping of 3rd Semester Courses to PO/PSO

SUBJECT	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	РО 11	PO 12	PSO 1	PSO 2
Probability & Statistics	3	3	2.6	2	1.5	1	1.4		1.6	1.8	2.2	2.4	2	1
Mathematical Foundations of Computer science	3	3	3	3	2	3	2	3	2	3	3	3	3	3
Data Structures	3	3	3	3	3						2	1	3	3
Digital Logic Design	3	2.8	2.8	2.6	2.4	1.4		1	2.2	1.8	2.2	2.4	3	2
Electronic Devices & Circuits	3	2.8	2.8	2.2	1.8	3	3	3	3	1.5	3	2.2	3	2.6
Basic Electrical Engineering	2.6	2.4	2.4	2.4	1	2.6		2	2	2			3	3
Electrical & Electronics Lab	3	3	3	3	3	3	3	3	2	2	3	3	3	3
Data Structures Lab	3	3	3	3	3	2			2	2	1	3	3	3



CO-PO/CO-PSO Mappings of course Compiler Design

After con	After completing this course the student must demonstrate the knowledge and ability to:					
CO1	Differentiate the phases in compilation & parsing.					
CO2	Identify the process in parsing and semantic analysis.					
CO3	Explain about symbol tables and code optimization methods.					
CO4	Understand various code optimization methods.					
CO5	Analyze data flow and generate object code.					

CO - PO MAPPING:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO	PO	PO
		102	105	104	105	100	107	100	107	10	11	12
CO 1	3	3	3	3	1	3	2	2	1	1	-	3
CO 2	3	3	3	3	3	3	2	2	1	1	-	3
CO 3	3	3	3	3	2	3	-	2	2	2	2	3
CO 4	3	3	3	3	2	3	-	2	2	2	2	3
CO 5	3	3	3	3	2	3	2	2	2	2	2	3
Avg.	3	3	3	3	2	3	2	2	1.6	1.6	2	3

CO - PSO MAPPING:

	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	2	2
CO4	3	2
CO5	3	2
Avg.	2.8	2.4



Process of CO Attainment

Attainment of Course Outcomes





Assessment Tools

Direct Assessment Tools

	Direct Assessment Tools	Threshold level (%)	Attainment level Criteria	Attainm ent level
1. 2.	Continuous Internal Evaluation (CIE) Semester End Examinations (SEE)		60% of marks are obtained by more than or equal to 70% of students	3
3	Laboratory Evaluation		attempted.	
4.	Industry Oriented Mini Project	60	60% of marks are obtained by more than 60% and less than 70% of students	2
5.	Technical Seminar		attempted.	
6.	Comprehensive Viva Voce		60% of marks are obtained by more	
7.	Major Project		than 50% and less than 60% of students attempted	1

Indirect Assessment Tools

- x Number of students opted for low option (Low)
- y Number of students opted for medium option (Moderate)
- z Number of students opted for high option (Substantial)

Overall CO Attainment



Assessment of Course Outcomes

Course Outcome	Course Outcome Attainment Level from Internal Assessment	Course Outcome Attainment Level from University Exams	DCO Direct Attainment	CO Indirect Attainment	Over all CO Attainment
CO Attainment	a ₁ Average CO Attainment Level (Mid-1+ Mid-2 + Two Assignments)	b ₁	c1= $(0.25 (a_1) + 0.75 (b_1))$	$d1 = \frac{((1 + X) + (2 + Y) + (3 + Z))}{(X + Y + Z)}$	0.8(c1) +0.2(d1)

	MID I Threshold 60%										MID	II Threshold	60%			Threshold
				PART-A			PART-B			PART-A				PART-B		60% (45M)
S.No.	Keg.No.	ASM - I (5)	Q1(2M)	Q2(2M)	Q3 B (2M)	Q4(5M)	Q5(5M)	Q6(4M)	ASM - II (5)	Q1(2M)	Q2(2M)	Q3 A (2M)	Q4(4M)	Q5(5M)	Q6(5M)	End Exam (75M)
1	15911A0521	5	2	2	2	4	4	4	5	2	2	2	4	4	4	51
2	15911A0548	5	2	2	2	2	2	3	5	2	2	2	3	2	2	48
3	15911A0599	5	2	2	2	2	2	2	5	2	2	2	2	2	2	53
4	15911A05B9	5	2	2	2	2	2	2	5	2	2	2	2	2	2	8
9	16911A0501	5	2	2	2	5	5	4	5	2	2	2	4	5	5	59
28	16911A0521	5	2	2	2	3	3	3	5	2	2	2	3	3	3	60
34	16911A0527	5	2	2	2	3	3	4	5	2	2	2	4	3	3	17
234	17915A0503	5	2	2	2	3	3	3	5	2	2	2	3	3	3	48
235	17918A0501	5	2	2	2	3	3	3	5	2	2	2	3	3	3	59
Ave	rage marks	5	1.5	1.5	1.5	3.1	3.2	3.3	5	1.5	1.5	1.5	3.1	3.1	3.4	44.7
No of stu	idents attemped	235	235	235	235	235	235	235	235	235	235	235	235	235	235	233
No of stud ar	ents scored 60% nd above	235	156.00	156.00	156.00	174.00	195.00	194.00	235	156.00	156.00	156.00	173.00	174.00	205.00	155.00
%of stude ar	ents scored 60% nd above	100	66.38	66.38	66.38	74.04	82.98	82.55	100	66.38	66.38	66.38	73.62	74.04	87.23	66.52
CO ATTA	INMENT LEVEL	3	2.0	2.0	2.0	3.0	3.0	3.0	3	2.0	2.0	2.0	3.0	3.0	3.0	2.0

NBA Expert Team Visit



Process of PO/PSO Attainment





PO and PSO Assessment Tools

Assessment Tools	Assessment Frequency	Assessed by	Reviewed by	Assessing PO's
	Direct Ass	essment Tools		
(Theory & Lab) Mid Examination	eory & Lab) Mid Examination Twice in Semester		Program Assessment Committee(PAC)	PO1 – PO12 PSO1 & PSO2
Laboratory Examination	Twice in Semester	Course Coordinator & Course Faculty	РАС	PO1 – PO12 PSO1 & PSO2
Semester End Examination	Once in Semester	External Evaluators	External Evaluators	PO1 – PO12 PSO1 & PSO2
Seminar & Comprehensive Viva- Voce	Once	Project Review Committee(PRC)	РАС	PO1 – PO12 PSO1 & PSO2
Mini Project	Once	PRC	PAC	PO1 – PO12 PSO1 & PSO2
Major Project	Four times in a semester	PRC	РАС	PO1 – PO12 PSO1 & PSO2
	Indirect As	sessment Tools		
Graduate Exit Survey	At the end of the Program	Program Coordinator & PAC	РАС	PO1 – PO12 PSO1 & PSO2
Value Added Courses	At the end of the Program	Program Coordinator & PAC	РАС	PO1 – PO12 PSO1 & PSO2
IV Year Internships	At the end of the Program	Program Coordinator & PAC	PAC	PO1 – PO12 PSO1 & PSO2
	Dept of CSE	NBA Expe	rt leam visit	



Criteria - 4: Student Performance

Sanctioned Intake

Enrollment Ratio

Item	2020-21	2019-20	2018-19		NI	N1	Enrollment
Intake of the program (N)	240	240	240	A. I	IN		Ratio
Total number of students	240	240	240	2020-21	240	240	100.00
admitted in 1 st year (N1)				2010 20	240	240	100.00
Number of students	22	10	24	2019-20	240		
admitted in 2 nd year (N2)	23	17	21	2018-19	240	240	100.00
Separate division students	N 711	N T°1	NT°1				
applicable(N3)	Nil	IN1I	1N11	2017-18	240	240	100.00
Total number of students		250					
(N1 + N2 + N3)	263	259	264				



Academic Performance Table



	Total No. of	Num succe	ber of stuc ssfully gra	lents who l duated wit	nave hout		Year of	Total No. of	otalNumber of students who haveo. ofsuccessfully graduated				
Year of	Students	backlogs	in any sen	nester/year	of study		Entry	Students I			III	IV	
		I Year	II Year	III Year	IV Year				I Year	II Year	Year	Year	
2017-18	245	176	158	143	135		2017-18	245	230	229	228	221	
2016-17	243	157	138	130	127		2016-17	243	235	228	222	217	
2015-16	243	145	123	118	115		2015-16	243	232	235	220	215	





Success Rate in Stipulated Period

Success Rate

Item\ Year of	2017-18	2016-17	2015-16	Academic Performance	2019-20	2018-19	2017-18	2016-17	2015-16
admission				Mean of CGPA of					
Number of students	245	243	243	all successful students (X)	7.3	7.5	7.4	7.5	7.1
admitted	210	210		Total No. of successful students	257	250	229	228	235
Number of	001	017	01 5	(Y)					
Graduated	Graduated 221 217 21 Graduated	213	Total No. of students appeared	250	262	225	228	225	
Success Index [SI =	0.90	0.89	0.88	in the examination(Z)	239	202	233	230	233
Y / X]	0.20			API[X * (Y/Z)]	7.24	7.15	7.21	7.18	7.1

Academic Performance in Second Year

VIDYA JYOTHI Institute of Technology

Placements, Higher Studies and Entrepreneurship

Item	2017-21	2016-20	2015-19	2014-18
Total No. of Students (N)	228	222	220	203
No. of students Placed (x)	151	142	126	134
No. of students admitted to Higher Studies (y)	15*	25	19	6
No. of students turned Entrepreneur (z)	2*	8	1	3
x + y + z	169	175	146	143
(x + y + z)/N	0.74	0.79	0.66	0.70

* In Progression



Professional Chapters

A.Y	CSI	ISTE	ACM	IEEE	Total
2020-21	3	1	2	0	6
2019-20	5	3	-	2	10
2018-19	4	5	_	1	10



Inauguration of ACM Student Chapter on Saturday, 10th October 2020

 Image: State Stat

A Seminar on "Research Activities and Objectives" by Dr. Salvatore Distefano, Italy



Lecture on Open Source Tools by Mr. Aneesh PV, Manager, Prodevans, Bangalore

Technical Clubs

	Technical clubs								
A.Y	IUCEE SPEED	WEB CLUB	ANDROID CLUB	IoT CLUB	AI+ Club	Total			
2020-21	1	2	3	1	2	9			
2019-20	0	1	1	4	2	8			
2018-19	1	1	1	4	2	9			



Coding competition **<CODEIT>** on 15/02/2020



36 Hrs Jhub Hackathon



Workshop on Essentials of Machine learning by P.Mohan, Tech. Mahendra

OTH



News Letter



AID IV GLOUI

Volume 7		NEWS LETTER	Issue: 1				
		DISC-US					
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING							
IN THIS ISSUE		Engineers play the most imperati best engineered technologies to m	ve role in building the nation. They invent ake human life more comfortable, secure				
Director's Greetings Principal's Greetings HOD's Message Events in the department Central events Faculty Achievements Paper publications	-	and productive. We have excellen excel in Engineering fields. We no next story of success. The essence of Engineering educa positive sign not only to cater don entire world and become biggest to worthe contribution to this Food	t potential to grow in diversified areas and seed enormous number of engineers to write ation which has spread in India is a very nestic needs but provide manpower to the sectmically trained community. VJIT is a				
Students' activities		Dr. P Rajeshivar, Reddy, Secretary & Correspondent VJIT					
Articles Placements Sports Upcoming events E ditorial Board E ditor-in-chief Dr. B Vijsvakouttar HOD, CSE, VIIT E ditor Abdul Majeed Assistant Professor Member B Sailaja Associate Professor		I send my greetings to the Editori best in all aspects. We want to pro- services to VJIT students. I beli- benchmark for continued impre Institute. This news letter should and coming batches of students in future for building their careers. I who have done an excellent job D	al Board of CSE News letter for working wide a complete package of educational ieve this news letter will provide us the ovement in overall development of the be a good source of guidance for faculty choosing activities of their choice in their appreciate the efforts of the Editorial team in compiling . P Yean Gonal Reddy, Director VJIT				
		Our focus is to develop our stu respect and appreciation of dive learning experience. They should decision makers to take up a leas I am quite pleased to learn about t The title amply gives expressi appreciate and applaud the editori	dents as global citizens, with tolerance, rse cultures and religions for a life-time be self-motivated, independent, confident dership roles in future. Dr. A Padmaia, Principal VJIT the forthcoming issue of our news letter. on to the educational philosophy I do al team for their successful completion of				
Send your suggestions comments and articles to		this tedious yet daunting task of p dreams of our students and faculty fest called 'Disc-us'.	utting together the myriad thoughts and y into a meaningful and delightful visual				
majeeu@vjijt.ac.m		Dr. B	<u>Viiayakumar.</u> Head of the Department				
in the fit	Vision an	d Mission of the Department					
VISIOII To produce th	he globally compe	tent professionals in the field of	Computer Science and Engineering				
M • To provide state-of learning practices S • To promote research in interdisciplinary f I • To enrich students w O values and leadershi N • To establish a collab	 M To provide state-of-the-art facilities in Computer Science and Engineering, through innovative teaching learning practices To promote research and development in the frontier areas of Computer Science and Engineering and to work in interdisciplinary fields To enrich students with discipline and high integrity to serve the society and to inculcate the spirit of ethical values and leadership abilities To establish a colleporative any environment between Industry and Academia 						
PEO1: Graduates will be employable as Software professionals Program Bit octional Objectives PEO2: Graduates will be able to develop analytical and computational ability to solve software problems, by applying innovative technical tools in ever changing World. PEO3: Graduates will be able to work in multidisciplinary project teams with effective communication akills and leadership qualities PEO4: Graduates will be able to embrace lifelong learning with professional athics							
(Approved by AICTE, Perm A Fax: 91-8413 235	VIDYA JYOTH namently Affiliated Aziz Nagar, Hyders 509. Website: ww	I INSTITUTE OF TECHNOI to JNTU Hyderabad, Accredite abad-500075, Phone: +91-8413- rw.viit.ac.in. E- <u>Mail: unfor@con</u>	LOGY d by NAAC and NBA New Delhi,) 235300, ac.m. msieed/2viit.ac.in				
NBA Expert Team Visit							



Students Participation & Awards

Academi c Year	No of students Participated	No of awards received
2020-21	31	09
2019-20	82	21
2018-19	89	14



Dept of CSE

Poster Presentation on ERA at 2018 IEEE 8th IACC-2018, Noida





Winners of "Smart India Hackathon" 2nd & 3rd March 2019



Students Certifications/value added courses

Value added Courses

A.Y	Total No. Certifications
2020-21	262
2019-20	742
2018-19	190

Certifications

Name of the Organization	No. Certifications
IIT Bombay Spoken Tutorials	1150
Coursera	1100
Cisco	231
Qlik	152
Oracle	123
Codathon	80
Google Cloud Career	63
Readiness Program	05
AWS	50
NPTEL	17
Sales Force Trailblazer	14
Rank Sheet	11
Udemy	5
ISTQB	12
OCJP	12
Criteria-5: Faculty Information and Contributions Student Faculty Ratio



Description	CAY (2020-21)	CAYm1 (2019-20)	CAYm2 (2018-19)
Total Number of Students in the Department (S)	804	788	767
No. of Faculty in the Department (F)	45	44	43
Student Faculty Ratio (SFR) (SFR=S/F)	17.87	17.91	17.8
Average SFR	17.87		

Faculty Cadre Proportion

Year	Professor		Associate Professor		Assistant Professor	
	Required F1	Available	Required F2	Available	Required F3	Available
(2020-21)	4	6	8	4	26	35
(2019-20)	4	6	8	3	26	35
(2018-19)	4	6	8	3	25	34
Average	4	6	8	3	25.6	34.8



Faculty Qualification & Retention

Qualification

	X(Ph.D)	Y(M.Tech.)	Required Faculty(1:20)	Faculty Qualification	
2020-21 (CAY)	10	35	40.00	12.00	
2019-20 (CAYm1)	9	35	39.00	11.79	
2018-19 (CAYm2)	9	34	38.00	11.89	
Average Assessment		11.90			

Retention

Description	2018-19 (CAYm1)	2019-20(CAYm2)	2020-21(CAYm3)
No. of Faculty Retained	43	44	45
Total Number of faculty	38	41	43
% of Faculty Retained	88.3	93.1	95.5
Average	92.3		

Faculty Competencies Based on Publications



S.No.	Competency(Area)	No. of Publications	Competencies for PSO's
1	Machine Learning, Deep Learning	16	1,2
2	Image Processing	6	1,2
3	Cloud Computing, Fog Computing	14	1,2
4	Internet of Things	14	1,2
5	Computer Networks, Mobile Networks, Web Technologies, Block Chain, Python	7	1,2
6	Data Mining, Big Data, Data Analytics	17	1,2
7	Information Security, Network Security	3	1,2
8	Artificial Neural Networks, Natural Language Processing	5	1,2
	Dep	t of CSE	NBA Expert



Innovative Teaching Methodologies





Conduction of Quiz via Plickers

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📃 🛛 Data Structu	res > Grades					
Gradebook 👻 🛝	/iew • Actions •			iii S	earch	ø
Student Name	Assignment-1 Pro Out of 10	Assignment-2 Pro Out of 10	Quiz-1 Out of 10	Assignment-3 Pro Out of 10	Assignment-4 Pro Out of 10	Assig
5B3 Syed Muziba	9	10	6	9	10	
GOUTHAMI 5B4	9	10	10	10	10	
5B6-T.Manasa	8	9	8	10	10	
5B7-V.Sai Siddharth	9	10	9	10	10	
5B8-Varshitha	10	10	5	10	9	
5B9 Sai Pranav Y	7	10	9	9	-	
566 Deekshika	7	10	10	10	10	
571-Ch.Vijay Prasad	10	10	9	9	10	
573- D.Shravani	10	10	10	9	10	
574 - D.Naga Sai Nitish	10	10	8	9	10	
575-AKASH	10	10	8	9	Activate Windows	
577-Neha Reddy	8	10	10	10	Go to Setti <mark>10</mark> 's to activate Window	NS.

Assignments Graded in LMS



Concept of Sorting using Role Technique

Innovative Teaching Methods-Critics fo further Improvement	r				
arunakumari@vjit.ac.in Switch account	\odot				
* Required					
Email *					
Your email					
1.Indicate the Name of the Teaching Method for which critic to be given.					
O Socio constructivist perspective					
O Classroom Discussion					
O Short presentation					
O Group Projects					
O Mind map					

Dept of CSE



Conferences/FDP's/Workshops/STTP's Organized

A. Y	STTP/ FDP	WORKSHOPS	WBINARS	CONFERENCES
2020-21	4	5	5	-
2019-20	4	6	5	1
2018-19	12	2	2	-



Dr.Ramesh Babu, MIT Jaipur Delivered lecture on "Next Generation Networks" -2021 Dept of CSE



Proceedings release by Dr KrishnaVedula, IUCEE - ICCIDE-2019



FDP on "Recent trends and Advancements in Computer Science" - 2020 NBA Expert

Team Visit



Faculty Participation in Various events

S.No	Name of the Faculty	Name of the activity	Dates
1	R.R.S.Ravi Kumar	Journal Reviewer((IJSA)	2-12-2021
2	Dr.D.Aruna Kumri	Session Chair(NCWISET)	20-11-2021 to 21-11-
			2021
3	R.R.S.Ravi Kumar	Journal Reviewer(IASC)	16-8-2021
4	R.R.S.Ravi Kumar	Journal Reviewer(Academia)	31-7-2021
5	Ch.Deepika	Project Build-A-Thon as part of	01-06-2021
		TASK & ORACLE Academy	
6	P.Swetha	Certificate of Appreciation(AQIS	3-5-2021
		Sponsored six day online STTP on	
		"Sensor Networks, IoT")	
7	K.Srinivas Rao	Keynote address(TTWRDC)	20/1/2021
8	P.Swetha, Ch.Deepika	Filed a patent on topic "Method	8-4-2020
		for semantic segmentation of	
		digital image in electronic device	
		interface using machine learning	
9	A.Swarna Reddy	Achieved instructor level	1-9-2018
		credential for completing CCNA	
		Cyber security Operations	
10	P.K.V.Sharma	Train the Train program in IVS	11-6-2018 to 22-6-2018
		Testing Program	
11	Dr.N.Anusha	Participated in Flood Management	23-7-2021
		using , GIS and Bathmetry	
12	P.K.V.Sharma	Foundation level in Software	31-11-2018
		Testing	



Team Visit

Dept of CSE

Academic Research



Publication Details

Academic Year	Scopus	Book/Book Chapters	UGC	Total No. of Publications
2020-21	14	1	9	24
2019-20	32	4	30	66
2018-19	Nil	1	14	15

Guiding Ph.D

S. No.	Name of The Faculty	Year of Registration	Area of Research	Scholar Name	University
1		2019	Image Processing	Mr. Konka Kishan	JNTUH
2	Dr. B.Vijaya	2017	Image Processing	Mr. M.A.Majeed	PACIFIC
3	Kumar	2017	Data Mining	Mr. B.Srinivasulu	GITAM
4		2017	Big Data	Mr. P.Rajashekar	GITAM
5		2015	Smart grid on IOT	Ms. Radhika	KLU
6	Dr. D.Aruna	2015	Sentiment Analysis	Ms. Depali Lende	KLU
7	Kumari	2015	Data Mining for Stock Reduction	Ms. Prakash Rathod	KLU



List of Ph.D. Awardee

S.No.	Faculty Name	Guide Name	Research Area	Research Title	Year of Registration	Universit y Name	Year of Completio n
1	Mr. K.Ramesh Babu	Dr Vineet Padmana bhan Nair	Network Security	DNSSEC: Verification, Validation and Proposal for Enhancement.	2008	HCU	2018-19
2	Ms. Smitha Khond	Dr.B.Vijay akumar	Cloud Computing	Innovative Techniques of Encryption and Digital Watermarking for Secure Medical Image Trasmission	2016	PACIFIC	2020-21
3	Mr. KSRK Sarma	Dr.M.Uss enaiah	Image Processing	Region and Logical Approaches using Machine learning Techniques	2013	JNTU Ananthpur	2021-22



List of Faculty Pursuing Ph.D.

S.No.	Name of the faculty	Year of registration	University Registered
1	Abdul Majeed	29/09/2021	PACIFIC
2	Mrs. B Sailaja	23/10/2018	JNTUH
3	Mr. Y Prabhu Kumar	12/7/2018	KLU
4	Mrs. P Swetha	12/7/2018	KLU
5	Mr. B Vikas	12/7/2018	KLU
6	Mrs. G Kalpana	20/08/2018	OU
7	Mrs. K Samatha	14/12/2018	ANNAMALAI
8	Mrs. CH Deepika	03/01/2018	KLU
9	Mr. Zaheer Ahmed	20/09/2017	VELTECH
10	Mr. Y Praveen Kumar	06/06/2017	VELTECH
11	Mr. P Rajashekar	10/04/2017	GITAM
12	Mr. K Srinivas	30/06/2017	JNTUA
13	Mr. B Srinivasulu	10/04/2017	GITAM
14	Mrs. A Swarna Reddy	2/07/2016	JNTUH
15	Mr. RRS Ravi Kumar	22/03/2013	GITAM
16	Mr. D Venkateshwarlu	09/09/2011	JNTUH



Details of R&D Grants Received

R& D Grants

Name of the Principal Investigator/ Co Investigator (if applicable)	Name of the Funding Agency	Type (Government/ Non- Government)	Department of Principal Investigator/ Co Investigator	Year of Award	Funds Provided (INR in lakhs)	Duration of the Project	A.Y
Dr. K. Ramesh Babu	TEQIP-III, JNTUH	Government	CSE	2019-20	2,75,000	2 Years	2019-20
Dr. D. Aruna Kumari	RCI-DRDO	Government	CSE	2017-18	10,00,000	3 Years	2017-18

Consultancy

Academic Year	Amount (Rupees)
2020-21	10,29,906.00
2019- 20	4,34,262.00
2018-19	2,55,920.00
2017-18	7,37,906.00



Details of Patents Published/Granted

S. No.	Name of the Faculty	Status	Title of the Product
1	Mrs. D. Candhua	Dublished	An AI Based Framework For Realizing A Human Emotion
1		rublished	Recognition System
2	Dr K Ramach Babu	Published	NIBT- Fire Detection: Fire Detection And Notification Using
	Dr. K. Kamesh Dabu	rublished	IotTBased Technology
2	Dr. D. Aruna Kumari	Published	Automatic Method and technologies for bio medical waste
5	Dr. D.Aruna Kumari	rublished	management using IOT based system
			DACH- Health Notification: IoT-based Health Notification and
4	Mr. KSRK Sarma	Published	Doctor Availability Checking in Hospital Using Machine Learning,
			Deep Learning Programming
	Mr. KSRK Sarma &	Dublished	System and method to improve the performance index in transport
5	B.Vikas	Published	process by using artificial neural networks
6	Mr. Y .Praveen	Dublished	Manata anaine I Iumei ditas and taman anatura agentual far atomin a anaina
0	Kumar et.al	rublished	Monstogram-munificity and temperature control for storing grains
7	Mr. K. Srinivasa Rao	Published	Vital Monitoring Device For Kids



Products Developed





Process of Faculty Performance Appraisal



Adjunct Faculty

S. No	Faculty Name	Company Name	Subject	Year	Semester	No. of Hours Taken
1	Mr.Neela Lakshmi	Infosys	WT(PHP)	III	II	26
2	Mr.Md.Inthiyaz	Tech Mahendra	Data Warehousing & Data Mining	IV	Ι	26



Criteria-6: Facilities & Technical Support

Infrastructural Facilities

Item	No.
Class Rooms	13
Professor Cabins	06
Assoc. Professor Cabins	04
Asst. Professor Cabins	35
HOD Room	1
Tutorial Rooms	1
Department Library	1
LCD Projectors	18
Servers	2
Desktop Computers	255
Computer Laboratories	7
Project/R&D Lab	1
Auditorium	1
Dept of CSE	NBA Expert Team Visit

Utilization of Laboratories



Semester	Name of the Lab	Year	Name of the Course	Utilization	Semester	Name of the Computer	Year	Name of the	Utilization
	Lab – 1	IV CSE	Big Data Analytics	Big Data Analytics 24 hours/	Lab	- Cur	Course		
	Lab- 2	III CSE	Web Technologies	week		Lab – 1 Lab – 2	III CSE	Data Mining and Case	24 hours/ week
	Lab– 3 Lab– 4 II CSE	II CSE	Data Structures and Python Programming	24 hours/ week		Lab – 3 Lab – 4	II CSE	JAVA Programming	24 hours/ week
Odd Semester		IV CSE	Mobile Application Development 2 Computer						
	Lab– 5 Lab– 6	III CSE		24 hours/	Even Semester	Lab – 5 Lab – 6	II CSE	Database Management Systems	24 hours/ week
				Week					
			Operating System			Lab – 7	IV CSE	ІоТ	24 hours/ week
	Lab7	IV CSE	ІоТ	24 hours/ week		Project	IV CSF	Maior Drois da	24 hours/ week
	Project Lab	IV CSE	Mini Projects	24 hours/ week		Lab	COL		WCCK
Total No. o	Total No. of Lab Courses 6 Dept of CSE NBA			INBA I	Expert Team Visit	Total N	o. of La	b Courses 3	



Facilities & Technical Support

Maintenance of Laboratory Equipment's

- Hardware engineers regularly visits the lab for proper maintenance of labs.
- Regular checkup of equipment is carried out at the end of every semester
- As per the requirement ,minor repairs are carried out by the lab technical staff
- Major repairs are outsourced by following the procedure of the institute
- Each laboratory maintains a stock register detailing the equipment history within it.
- Student's login / logout register is maintained in all laboratories
- Informative notice board containing safety, Do's & Dont's is properly maintained

Overall Ambience







Dept of CSE



Criteria-7 : Continuous Improvement



POs and PSOs Attainment s

PO's/PSO's	Target Level 2015 – 2019	Attainment Level 2015 - 2019	Target Level 2016 – 2020	Attainment Level 2016 - 2020	Target Level 2017 - 2021	Attainment Level 2017 - 2021
PO 1	2.1	2.35	2.2	2.42	2.25	2.47
PO 2	2.1	2.26	2.2	2.31	2.25	2.35
PO 3	2.1	2.31	2.2	2.36	2.25	2.44
PO 4	2.1	2.21	2.2	2.26	2.25	2.33
PO 5	2.1	2.16	2.2	2.21	2.25	2.25
PO 6	2.1	2.10	2.2	2.15	2.25	2.16
PO 7	2.1	2.10	2.2	2.13	2.25	2.19
PO 8	2.1	2.08	2.2	2.13	2.25	2.10
PO 9	2.1	2.22	2.2	2.28	2.25	2.26
PO 10	2.1	2.19	2.2	2.26	2.25	2.25
PO 11	2.1	2.08	2.2	2.15	2.25	2.12
PO 12	2.1	2.22	2.2	2.30	2.25	2.33
PSO1	2.1	2.17	2.2	2.36	2.25	2.40
PSO2	2.1	2.18	2.2	2.26	2.25	2.30



Academic Audit

The following documents are made available during department Academic Audit:

- Time Tables
- Attendance Registers
- Teacher Qualification, Designation and Experience
- Teacher Student Ratio
- Syllabus Coverage as per the Course Plan
- Course Files
- Seminar Presentation Details
- Evaluation of Internal Marks
- Attendance of Remedial Classes
- Result Analysis
- Monitoring the Evaluation Process of Mini Projects
- Monitoring the Evaluation Process of Major Projects
- Students Counseling Records
- Patents
- Research grants
- Consultancy
- Publications



Continuous Improvement

Improvement in Placement, Higher Studies and Entrepreneurship

ITEM	2020-2021	2019-2020	2018-19	2017-2018
Total Number of Final Year Students eligible for placements (N)	228	222	220	203
Number of Students placed in Companies/Government Sectors (x)	151	142	126	134
Number of Students Admitted to Higher studies (y)	15*	25	19	6
Entrepreneurship (z)	2*	8	1	3

Improvement in Workshops/Events/Guest lectures



List of Workshops Organized by the Department				
2020-21	2019-20	2018-19		
12	14	8		

	Number o	f Events C	onducted
Name of Professional Chapter/Society	2020-21	2019-20	2018-19
Computer Society of India	3	5	4
Indian Society for Technical Education	1	3	5
Association for Computing Machinery	2	-	-
Total	6	8	9



Outcome Based Education





OBE Administrative System

- Department Advisory Board
- Program Assessment Committee
- Program Coordinator
- Course Coordinators
- Course Teachers



Key Functional Committees - Curricular Aspects



Members of DAB

- Program Assessment Committee
- Department Advisory Board
- Board of Studies
- IQAC
- Academic Council
- Board of Governors

Members of PAC

S.No.	Incharge	Role
1	Dr B. Vijaya Kumar	Chairman
2	Dr D.Aruna Kumari	Convener
3	Dr.K.Ramesh Babu	Member
4	Mr. D.Venkateswarlu	Member
5	All Course Coordinators	Members

S. No.	Name	Designation	Role
1	Dr. B. Vijaya Kumar	Professor & HOD-CSE, VJIT	Chairman
2	Dr. D.Aruna Kumari	Professor, CSE,VJIT	Convener
3	Dr.BCS Reddy	Serveen Software solution	Member
4	Mr. Srikanth Raja	CA Technologies	Member
5	Dr. Ravi Methey	Professor, CSE, VJIT	Member
6	Mr.D Venkateswarlu	Assoc. Professor, CSE,VJIT	Member
7	Mr. G. Srinivasulu	Parent	Member
8	Ms. Ishwarya Kulkarni	Alumni	Member
9	Ms. P.Pavani	Student	Member



Process for Designing Curriculum for Attaining the POs & PSOs

	PO/PSO	Course mapped significantly
Articulate COs for each POs and PSOs Identify the course coordinators for each course	PO1	A11004, A11303, A12503, A12009, A12584, A12382, A13014, A13504, A13505, A13406, A13506, A13585, A13484, A14507, A14509, A14511, A14586, A14587, A15512, A15514, A15515, A15518, A15420, A15218, A15588, A16522, A16523, A16525, A16428, A16429, A16228, A16227, A16590, A17531, A17533, A17535, A17537, A17538, A17534, A17440, A17239, A17238, A17138, A17593, A17594, A17595, A18543, A18545, A185P2, A185CV, A185TS
Prepare syllabus contents, CO-PO mapping for each course	PO2	A11303, A12503, A12009, A12584, A12382, A13014, A13504, A13505, A13585, A13483, A14507, A14509, A14511, A14586, A14587, A15512, A15515, A15420, A15588, A16525, A16428, A16429, A16228, A16590, A17531, A17535, A17537, A17538, A17534, A17440, A17239, A17238, A17593, A17594, A17595, A18545, A185P2, A185CV, A185TS
Review the contents and course articulation matrix	PO3	A11303, A12503, A12584, A13504, A13505, A13585, A13483, A14507, A14509, A14511, A14586, A14587, A15420, A15588, A16522, A16523, A16525, A16428, A16429, A16228, A16590, A17531, A17533, A17535, A17537, A17538, A17534, A17440, A17238, A17593,
Check the contribution of courses each		A17594, A17595, A18545, A185P2, A185CV, A185TS
Finalization of the curriculum	PO4	A11303, A12503, A13504, A13505, A13585, A13483, A14511, A14586, A15420, A15218, A15588, A16523, A16526, A16428, A16590, A17531, A17535, A17537, A17538, A17534, A17440, A17593, A17594, A17595, A18545, A185P2, A185CV, A185TS
	PO5	A13505, A13585, A13483, A14511, A14586, A16525, A16428, A16429, A16590, A17531, A17533, A17535, A17537, A17538, A17440, A17593, A17594, A17595, A18545, A185P2, A185CV, A185TS



Sample Internal Question Paper

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2 C	
- Annote -	

Vidya Jyothi Institute of Technology (Autonomous) (Accredited by NAAC & NBA, Approved By A.I.C.T.E., New Delhi, Permanently Affiliated to JNTU, Hyderabad) (Aziz Nagar, C.B.Post, Hyderabad - 500075)

II B.Tech. 1st Semester 1st Mid Examination

Brancl	n: CSE	Duration: 90Min
Sub:	Data Structures	Marks: 20
Date:	14.08.2019	Session: AN

Course Outcomes:

1. Understand the concepts of Stacks and Queues with their applications.

- 2. Analyze various operations on Binary trees.
- 3. Examine of various concepts of binary trees with real time applications.
- 4. Analyze the shortest path algorithm on graph data structures.
- 5. Outline the concepts of hashing, collision and its resolution methods using hash functions.

Bloom's Level:

			-									
Remen	nber	I	Apply	ш	Evaluate	v		_				
Understand II Analyze IV Create VI												
Q.N	ANSV	VER ALL		Marks	CO	PO	BL					
	PART-A (3Q×2M =6 Marks)											
1	Define data structures. 2 CO1 1-12 L1											
2	Define the	node, sibli	ings, left-sk	ewed tre	e.			2	CO2	1-12	Ll	
3	Construct the binary search Tree for the below given data 35, 20, 15, 31, 89 -1, 35, 45								CO3	1-12	L6	
		ANSWE	R ALL TH	E QUES	STIONS							
				PART-	B (5+5+4=	14 Marl	ks)					
4 i.a)	List out the	algorithm	steps for a	stack in	sertion oper	ration.		3	CO1	1-12	L4	
b)	Write the differences between linear and non linear data structures.							2	CO1	1-12	LI	
	OR											
ii.a)	Convert infix expression into its equivalent prefix expression: A*(B+D)/E- F*(G+H/K).							3	CO1	1-12	L5	
b)	Write short	notes on	different typ	pes of qu	eues.			2	CO1	1-12	L1	
										-	-	

5.i a)	What are the advantages and disadvantages of Static and Dynamic representation of a binary tree	2	CO2	1-12	Ll
b)	Given In order traversal of a binary tree is D,B,H,E,I,A,F,J,C,G and post order traversal is D,H,I,E,B,J,F,G,C,A. Construct binary tree and find the pre order traversal.	3	CO2	1-12	L6
	OR				
ii. a)	Explain tree traversals with example.	2	CO2	1-12	L3
b)	Define and explain the following: A) One way threaded Binary Tree. B) Full Binary Tree	3	CO3	1-12	L3
6.i)	Explain the insertion and searching operation on binary search trees with an example	4	CO3	1-12	L5
	OR				
ii)	Construct a binary search tree by inserting following elements 20, 70, -1, 66, 11, 55, 90, 45,100,110,91 and delete 66,100	4	CO3	1-12	L5



Assignment Question Paper



Vidya Jyothi Institute of Technology

(Accredited by NAAC & NBA, Approved By A.I.C.T.E., New Delhi, permanently affiliated to JNTUH)

(An AUTONOMOUS Institution)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ASSIGNMENT 2

Branch: CSE

Year&Sem: II-I

SUB: Data Structures

Academic Year: 2019-20

Faculty Name: B.Sailaja

Marks: 25M

S.No	Question	Marks	co	BL	PO's
1	Explain the various rotations of AVL Trees maintaining balance factor while deletion takes place.	5	3	L2	1-12
2	Define Graph and explain how graphs can be represented in adjacency matrix and adjacency LIST.	5	4	L1,L2	1-12
3.	Illustrate DFS and BFS traversals of following graph	5	4	L4	1-12
4.	Define hashing and discuss the different hashing functions with an example.	5	5	L1,L2	1-12
5.	Analyze input $(371, 323, 173, 199, 344, 679, 989)$ and hash function $h(x)=x \mod 10$, Show the result using quadratic probing, and double hashing $h2(x)=7 - (x \mod 7)$	5	5	L5	1-12



Direct Attainment of Course: Compiler Design



	ASSESSMENT OF COs FOR THE COURSE						
со	Method		value	Avg	CO Attainment (Internal)	CO Attainment (End Exam)	Overall CO Attainment
	ASM I		3				
CO 1	MID I - PART A - Q1		2.0	2.7			
	MID I - PART B - Q4		3.0				
	ASM I		3				
CO 2	MID I - PART A - Q2		2.0	2.7			
	MID I - PART B - Q5		3.0				
	ASM I		3				
	ASM II		3			2.00	2.17
	MID I - PART A - Q3		2.0				
CO 3	MID I - PART B - Q6		3.0	2.7	2.67		
	MID II - PART A - Q1		2.0				
	MID II - PART B - Q4		3.0				
	ASM II		3				
CO 4	MID II - PART A - Q2		2.0	2.7			
	MID II - PART B - Q5		3.0				
	ASM II		3				
CO 5	MID II- PART A - Q3		2.0	2.7			
	MID II - PART B - Q6		3.0				



Indirect Attainment of Course: Compiler Design



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(Accredited by NBA, <u>Approved</u> by AICTE New Delhi & Permanently Affiliated to JNTUH) Aziz Nagar Gate, C.B. Post, Hyderabad-500 075.

Department of Computer Science & Engineering Course End Survey Form Academic year: 2019-20

Name of the student	Year &sem	III - II
Roll number	Regulations	R 15

Dear Student,

We need your help in evaluating the courses offered, by responding the short survey below.

Your feedback is very valuable for us in order to continually improve our program. The aim of this survey is to evaluate how well each of the courses has prepared you to have necessary skills.

Your responses will be kept confidential and will not be revealed to anyone outside the department without your permission.

Please indicate $(\sqrt{})$ the level to which you agree with the following criterion: (3: Strongly agree 2: Agree 1: Strongly disagree)

Name of The Course: COMPILER DESIGN							
A	After completing this course the student must demonstrate the knowledge and ability to						
CO 1	Differentiate the phases in compilation & parsing.						
CO 2	Identify the process in parsing and semantic analysis.						
CO 3	Explain about symbol tables and code optimization methods.						
CO 4	Explain about code optimization methods.						
CO 5	Analyze data flow and generate object code.						

Any other comments / suggestions:

Signature

CD					
	OP1	OP2	OP3	TOTAL	ATTAIN
CO1	11	12	212	235	2.86
CO2	11	24	200	235	2.80
CO3	12	24	199	235	2.80
CO4	10	24	201	235	2.81
CO5	25	20	190	235	2.70
					2.79

Overall CO Attainment of Compiler Design Course

Indirect CO Attainment

Compiler Design Course End Survey Report: CO - Indirect Attainment (b1)

- x Number of students opted for low option (Low)
- y Number of students opted for medium option (Moderate)
- z Number of students opted for high option (Substantial)
- CO1 attainment = [(1*11)+(2*12)+(3*212)]/(11+12+212) = 2.86

Overall CO Attainment

CO Attainment of each course is obtained from 80% of Direct Attainment and 20% of Indirect Attainment.

Type of Assessment	CO Attainment
Direct Attainment(DA)	2.17
Indirect Attainment(IDA)	2.79
Course Co Attainment (80% of DA+20% of IDA)	2.20

CD					
	OP1	OP2	OP3	TOTAL	ATTAIN
CO1	11	12	212	235	2.86
CO2	11	24	200	235	2.80
CO3	12	24	199	235	2.80
CO4	10	24	201	235	2.81
CO5	25	20	190	235	2.70
					2.79

CO OVERALL ATTAINMENT=80% OF Direct + 20% of Indirect 2.2=2.00+2.79





Calculation of PO Attainment

Overall PO Attainment

The overall PO attainment is calculated from 80% of PO Direct Attainment and 20% of Indirect Attainment.

PO Overall Attainment c = $(0.8^*a) + (0.2^*b)$ For example PO1 Attainment c = $(0.8^*a) + (0.2^*b) = (0.8^*2.39) + (0.2^*2.88) = 2.35$

	PO & PSO Direct Attainment	PO & PSO Indirect Attainment	PO & PSO Overall Attainment
	a	b	c
PO1	2.2	2.8	2.35



POs Attainment Levels and Actions for improvement: 2017-21

POs	Target Level	Attainment Level	Observations	
PO1:Engineering Knowledge				
PO1	2.25	2.47	Target attained.	
The level of att	ainment can be further improved by			
1. Involving	1. Involving students in developing real time applications.			
2. Encouragi	ng students to do more case studies			
PO2: Problem	Analysis			
PO2	PO2 2.25 2.35 Target attained.			
The level of att	ainment is further improved by			
1. Conductin	ng guest lectures to enhance student's pr	oblem analysis skills.		
2. Motivating	g students for online certification course	s.,Encourage to Participate in departr	nental club activities.	
PO3: Design/d	evelopment of solutions			
PO3	2.25	2.44	Target attained.	
The level of att	ainment is further improved by			
1. Making stud	lents to take up multi-disciplinary proje	cts.		
2. Participation in various hackathons.				
PO4: Conduct investigations of complex problems				
PO4	2.25	2.33	Target attained.	
The level of attainment is improved by				
1. Students are motivated to focus more on analyzing the complex problems.				
2. Certification programs in collaboration with industries.				



PO5: Modern tool usage				
PO52.25Target attained.				
The level of attainment can be further improved by				
1. Usage of online tools in the data analytics area.				
2. Students are exposed to various modern tools like anaconda, weka, Eclipse , Netbeans , Wireshark, Qlik				
PO6: The Engineer and Society				
PO62.252.16Target not attained				
The level of attainment can be further improved by				
1. Developing apps useful/beneficial for the society.				
2. Conducting programs/camps related to health , hygiene and safety				
PO7: Environment and sustainability				
PO7 2.25 2.19 Target not attained				
The level of attainment can be further improved by				
1. Students participation in project exhibitions and hackathons				
2. Students are encouraged to work on projects related to environment and societal issues				
PO8: Ethics				
PO8 2.25 2.10 Target not attained				
The level of attainment can be further improved by				
1. Students were trained to impart ethical principles and responsibilities as a part of class work, as every subject has its own ethics inherently				
in it.				
2. Educate students about the importance of maintaining ethics in our projects design and development.				



PO9: Individual and Team Work				
PO9	2.25	2.26	Target attained.	
The level of at	tainment can be further improved by n	naking the students		
1. Students par	1. Students participation in J-Hub Projects Exhibition.			
2. Encouraging	2. Encouraging to participate in Techfests and Hackathons.			
3. Innovative	3. Innovative Teaching Learning Methodologies like Think-Pair-Share, Team Assignments were implemented to nurture the teamwork of			
students in mu	ultidisciplinary domains.			
PO10: Commu	inication			
PO10	2.25	2.25	Target attained.	
The level of at	tainment can be further improved by n	naking the students		
1. Certification	n courses in BEC (Business English Cer	tificate: Course offered by Cambrid	dge English).	
2. Introduced	Professional Communication Course as	s mandatory course.		
3. Soft skill tra	ining programs were provided for the	improvement of communication a	nd presentation skills	
PO11: Project	Management and Finance			
PO11	2.25	2.12	Target not attained.	
The level of at	tainment can be further improved by			
1 Students are	encouraged to prepare project reports	with the guidance of faculty for p	paper publications/ projects/patents	
2. Students are	e motivated to take internships			
PO12: Life-Lo	ng Learning			
PO12	2.25	2.33	Target attained.	
The level of attainment can be further improved by making them				
1. Learning through participation in technical clubs and professional chapters.				
2.3. Students are motivated to take internships				
3. Selection of elective courses enhanced the knowledge in their area of specialization and in tern it provided a path way to life- long learning.				



PSOs Attainment Levels and Actions for improvement: 2017-21

PSOs	Target Level	Attainment Level	Observations		
PSO1:The ability to design and develop Algorithms to provide optimized solutions for societal needs					
PSO1	2.25	2.40	Target attained.		
The attai	The attainment level is reached as because:				
1. Activity based learning Methodologies were adopted					
2. More workshops and guest Lectures were organized under various professional chapters					
PSO2: Apply standard approaches and practices in Software Project Development through trending technologies.					
PSO2	PSO2 2.25 2.30 Target attained.				
The attainment level can be reached by:					
1. Industry Perspective workshops were organized to improve practical skills					
2. Guidance was given to the Students for Higher Studies and Research.					



Feedback on Teaching Learning Process





Prominent Alumni



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Thank You