

## Yearly Status Report - 2019-2020

Part A						
Data of the Institution						
1. Name of the Institution	NARASARAOPETA ENGINEERING COLLEGE					
Name of the head of the Institution	Dr. M. Sreenivasa Kumar					
Designation	Principal					
Does the Institution function from own campus	Yes					
Phone no/Alternate Phone no.	08647239903					
Mobile no.	9440757039					
Registered Email	principal@nrtec.ac.in					
Alternate Email	msking2030@gmail.com					
Address	Kotappakonda Road, Yallamanda (Post), Narasaraopet					
City/Town	Narasaraopet					
State/UT	Andhra Pradesh					
Pincode	522601					

2. Institutional Status								
Au Au	tonomous Status tonomous Status)	(Provide date of Co	onformant of	19-Apr-2016				
Type of Institution				Co-education				
Lo	ocation			Rural				
Fii	nancial Status			private				
Na	ame of the IQAC of	co-ordinator/Directo	r	Dr.S.B.Venka	ta Siva			
Pł	none no/Alternate	Phone no.		08647239923				
Mo	obile no.			9692464540				
Re	egistered Email			neciqac@gmai	l.com			
Al	ternate Email			venkatasivan	ec@gmail.com			
3. Website Address								
W	eb-link of the AQ/	AR: (Previous Acad	emic Year)	<u>https://www.nrtec.in/wp-content/uplo</u> ads/2020/01/NAAC-AQAR-2018-19.pdf				
4. <sup>v</sup> the	Whether Acade e year	mic Calendar pre	pared during	Yes				
if y We	/es,whether it is ι eblink :	ploaded in the insti	tutional website:	https://www.nrtec.in/academic-calendar/				
5. /	Accrediation De	etails						
	Cycle	Grade	CGPA	Year of	Vali	dity		
				Accrediation	Period From	Period To		
	1	А	3.05	2015	15-Mar-2015	31-Dec-2021		
6.	Date of Establis	hment of IQAC		20-Dec-2012				
7.	Internal Quality	Assurance Syste	m					
		Quality initiatives	s by IQAC durina th	ne vear for promotin	g quality culture			
	tem /Title of the c	uality initiative by	Date &	Duration	Number of participa	ants/ beneficiaries		
c	Carrier guida	nce program	23-Ju	1-2019 300				

1			1				
Carrier guidance progra	m	30-Au	g-2019 1			250	
Student training progra on	m	01-Ju	1-2019 6			70	
conducted student training program on		22-Au	g-2019 1			150	
Chairperson IQAC, addressed all the facul members on Outcome Base Education (OBE) and motivated the faculty t implement OBE while teaching respective subjects	ty d	10-Ju	1-2019 1			210	
Internship awareness program was conducted under Internshala internship program.		19-Ju	1-2019 1			260	
Seminar was conducted o	n	06-De	c-2019 1			204	
Organized a guest lectu on	re	13-Ma	r-2020 1			150	
Conducted guest lecture on		30-De	c-2019 1	2019		80	
IQAC has successfully conducted online FDP programs on		22-Jun-2020 3				150	
		<u>Vie</u>	w File				
Provide the list of Special Status conferred by Central/ State Government- JGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.							
t/Faculty	No Data 1	Entered/	Not Appli	cable			
	N	o Files	Uploaded				
9. Whether composition of IQA NAAC guidelines:	). Whether composition of IQAC as per latest Yes						
Upload latest notification of format	ion of IQAC		<u>View</u>	File			
10. Number of IQAC meetings year :	held during	g the	4				

The minutes of IQAC meeting and compliances to the	Yes
decisions have been uploaded on the institutional	
website	

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

## 12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. Assessing the quality parameters and providing required suggestions for the improvement towards OBE. 2. Arranging training on pedagogy (Training Teachers for Excellence) every semester for all faculty. 3. Conducting seminars / workshops, FDPs, Guest Lectures, training / certification programs on quality related issues and Entrepreneurship awareness programs 4. Applied for extension of NBA for CSE and ECE departments 5.Focus on improving the quality in education by conducting periodical Academic Audit by internal and external experts 6.Arranging training on latest technologies for students.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes					
To improve technical activities	National Level Techfest "JUBILATION2K20" was organized in FEB 2020 · Project Expo was organized in the institute in the month of March 2020. Participated in HACKTHON Smart INDIA SIH and GO KART Completions					
To Encourage MOOCS Certification courses	College was recognised as NPTEL Local Chapter. • Faculty members and Students have got 2533 NPTEL/COURSERA course completion certificates for various courses.					
Communication with Parents	Letters with particulars of Percentage of attendance, Mid exam marks, SGPA and Backlogs have been sent. • Percentage of student attendance is improved					
To Improve Co-Curricular Activities	Workshops, seminars, industrial visits, soft skill development programmes, communication skill development programmes organised regularly.					
To offer Value added courses	Programs were conducted on latest technologies for the benefit of the students.					
Conducting Faculty Development Programs/Workshops/Orientation Programs on Emerging technologies.	More than hundred Programs are organized.					
To obtain feedback from stake holders	Feedback obtained from students,					

for designing the curriculum.	Faculty, Parents, Alumni, Industry for designing curriculum under autonomous scheme.					
To Encourage R&D and Consultancy, Establishing advanced / research labs / centres, setting up new experiments on latest technologies.	Many proposals are applied to various agencies like AICTE, DST, SERB etc. And received grants from AICTE for FDP and STTP.					
To get reaccreditation by NBA for eligible B.Tech. programs	NBA orientation programs are conducted for CSE and ECE branches to apply for extension of NBA duration.					
To Monitor Teaching Learning process	Academic Audit is done at the end of every semester.					
Vie	w File					
14. Whether AQAR was placed before statutory body ?	Yes					
Name of Statutory Body	Meeting Date					
Governing Body	27-Jan-2020					
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No					
16. Whether institutional data submitted to AISHE:	Yes					
Year of Submission	2020					
Date of Submission	10-Mar-2020					
17. Does the Institution have Management Information System ?	Yes					
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	BEES ERP software is implemented for student attendance, marks and other related activities. Autonomous exam section activities like exam fee collection, hall ticket generation, seating plans and post processing of results are done by BET tool of BEES ERP. Learning management system (MOODLE) software is used for conducting online exams and for uploading teaching learning material. HEBEON software tool is used for self learning of programming languages like C, JAVA, PYTHON etc. Koha software is used for library automation. Firewall software is implemented for protection and secure of information software.					

			Part	В					
CRITERION I – CUR	RICULAR AS	SPECT	S						
1.1 – Curriculum Design and Development									
1.1.1 – Programmes for	which syllabus	s revisio	n was carrie	ed out durin	g the Ac	ademic year			
Name of Programm	e Prog	gramme	Code	Programm	e Specia	lization	Date of Revision		
BTech		01			CE		22/07/2019		
BTech		02			EEE		20/07/2019		
BTech		03			ME		20/07/2019		
BTech		04			ECE		20/07/2019		
BTech		05			CSE		25/07/2019		
MCA		1F			MCA		23/07/2019		
MBA		1E			MBA		20/07/2019		
Mtech		87		ST ENGJ	RUCTUR	AL IG	22/07/2019		
Mtech		15		MACH	INE DE	SIGN	20/07/2019		
Mtech		21		] ENG]	THERMAI	1G	20/07/2019		
			<u>Viev</u>	<u>v File</u>					
1.1.2 – Programmes/ co /ear Programme with	ourses focussed Programm	d on em	ployability/ Date of In	entrepreneu troduction	urship/ sk	kill developme	nt during the Academi		
Code	Specializat	ion							
MBA	MBA		20/0	7/2019	Entr hip De -19M	repreneurs evelopment MBA4TH02	20/07/2019		
			Viev	v File					
	oility								
1.2.1 – New programme	es/courses intro	duced o	during the A	cademic ve	ar				
Programme/C		D	ogramme S	Specializatio	n	Dates	of Introduction		
BTech			ogramme	דיד דיד	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Dates	0/10/2019		
Dieci	-		View	 , File			.071072019		
1.2.2 – Programmes in College level during the	which Choice E Academic year	Based C	redit Syster	n (CBCS)/E	lective C	Course Systen	n implemented at the		
Name of programme CBCS	es adopting	Pi	rogramme S	Specializatio	on	Date of i CBCS/Elec	mplementation of ctive Course System		
BTech			CE			2	2/07/2019		
BTech	1		H	CEE		2	20/07/2019		
BTech	1			ME		2	20/07/2019		
BTech	1		I	ECE		2	0/07/2019		
BTech	ı		C	CSE		2	5/07/2019		
MCA		1							

	MRA	MRA	20/07/2019							
	Mtech	THERMAL ENGINEERING	20/07/2019							
	Mtech	MACHINE DESTGN	20/07/2019							
	Mteah	STRUCTUDAL ENGINEEDING	20/07/2010							
	Mtech	DEGG	20/07/2019							
	Mtech	DECS	20/07/2019							
	Mtecn	DSCE	20/07/2019							
	Mtech	CSE	25/07/2019							
	Mtech	P&ID	20/07/2019							
1	.3 – Curriculum Enrichment									
Ľ	1.3.1 – Value-added courses imparting transferable and life skills offered during the year									
	Value Added Courses	Date of Introduction	Number of Students Enrolled							
	webinar on "ADVANCED MATERIAL PROCESSING".	06/04/2020	153							
	Workshop on E-TABS software	24/12/2019	81							
	APSSDC workshop on Revit software	02/03/2020	89							
	WORKSHOP ON AUTOCAD SOFTWARE	03/02/2020	87							
	Internet of Things Fundamentals	15/07/2019	49							
	Embedded systems	30/08/2019	70							
	SCILAB	10/01/2020	40							
	GUEST LECTURE ON LIGHT WEIGHT COMPOSITES FOR SPACE APPLICATIONS".	20/07/2019	120							
	GUEST LECTURE on TYPICAL SOFTWARE OPPORTUNITIES FOR MECHANICAL ENGINEERS".	30/12/2019	135							
	webinar on "EVOLUTION OF CONNECTED FACTORIES".	23/05/2020	135							
		<u>View File</u>								
<b>-</b>	I.3.2 – Field Projects / Internships und	er taken during the year								
	Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships							
	BTech	CE	1							
	BTech	EEE	Nill							
	BTech	ME	10							
	BTech	ECE	13							
	BTech	CSE	21							
	MBA	MBA	61							
	MCA	MCA	83							

<u>View File</u>						
1.4 – Feedback System						
1.4.1 – Whether structured feedback received from all the stakeholders.						
Students	Yes					
Teachers	Yes					
Employers	Yes					
Alumni	Yes					
Parents	Yes					

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

At the end of first month of each semester, feedback is collected from students through online mode. The online feedback is summarized and the consolidated report is handover to Principal by DEAN (Academics). The faculty with average and poor feedback are counselled by Principal in the presence of HOD. Based on the report of HOD, Principal will take the necessary action to solve the issues raised by the students through feedback. For the effective implementation of the Academic system, the following feedback methods are adopted. Direct Feedback from Students: Each Section of the department has a Class Review Committee consisting of students, class teacher and HOD. Students are invited to express their views on various subjects, pedagogical methods and academic environment of the department. Interactive Feedback: Principal and HOD interact with students directly in the absence of teachers for unbiased feedback covering performance of teachers, coverage of syllabus etc. Online Feedback: The consolidated feedback of all subjects is collected online and analysed by HOD.

## **CRITERION II – TEACHING- LEARNING AND EVALUATION**

#### 2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

_										
	Name of the Programme	Programm Specializati	Programme No Specialization		Number of seats available App		umber of ation received	Students Enrolled		
	MCA	Compute Applicati	er ons	120		20 15		4		
	MBA	Managem	nent		180		100	85		
	Mtech	Engineer and Techno	ing logy		150		50	32		
	BTech	Engineer and Techno	ing logy	9	60		750	688		
		<u>View File</u>								
2	.2 – Catering to Stu	Jdent Diversity								
2	2.2.1 – Student - Full t	time teacher ratio	(currer	nt year data`	)					
	Year st ir	Number of tudents enrolled n the institution (UG)	Nun student in the (	nber of ts enrolled institution PG)	Number of fulltime teachers available in the institution teaching only UG		Number of fulltime teache available in th institution teaching only I courses	Number of teachers teaching both UG and PG courses		

[	2019	6	588		121	24	5	4	12	5
2	.3 – Teaching - Lo	earning	Process							
2 Ie	2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E- learning resources etc. (current year data)									
	Number of Teachers on Roll	Num teacher ICT (L Resou	per of s using MS, e- urces)	ICT T res ava	ools and ources ailable	Number o enable Classroo	of ICT ed oms	Numbero classro	of smar coms	E-resources and techniques used
	292	2	292		5	60	)		1	10
			<u>View</u>	<u>File</u>	of ICT	Tools and	d resc	<u>ources</u>		
	View File of E-resources and techniques used									
2	2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)									
	The college has well established mentoring system for all round development of students. From the date of joining the institution, the students are monitored on regular basis to excel in Academic Curricular, Co curricular and Extra Curricular activities. A group of 15 to 20 students are allotted a faculty counsellor to personally monitor all round development of the students. The counsellors inform the attendance details and academic performance of the students to their parents, weekly once. Also faculty member counsel the students weekly once and guide them on various academic and curricular aspects. The progress report of the students is sent to the parents through letters after each mid exam and after the announcement of University results.									
	Number of studen institu	nts enrolle	ed in the	Nu	Imber of full	time teache	ers	Me	entor :	Mentee Ratio
	3:	299			2	292				1:11
2	.4 – Teacher Prof	ile and C	Quality							
2	2.4.1 – Number of f	ull time te	achers ap	pointed	l during the	year				
	No. of sanctioned positions	d No. d	of filled po	sitions	Vacant p	oositions	Position the c	ns filled du current yea	uring ar	No. of faculty with Ph.D
	292		292		N	ill		60		51
2 Ir	4.2 – Honours and Iternational level fro	d recognit om Gover	tion receiv mment, re	ed by te cognise	eachers (rec d bodies du	ceived awar uring the yea	ds, recc ar )	ognition, fe	llowsh	ips at State, National,
	Year of Awa	rd	Name of receivi state lev inter	full time ng awa vel, natio nationa	e teachers rds from onal level, I level	Designation Name fellowshi Governm			me of the award, /ship, received from nment or recognized bodies	
	2020		D S:	or. S. riniva	V.N. Asu	Pr	ofess	or	E	Best Research Paper
	2019		K	.V.PR	ATAP	As Pro	sista fesso	nt r	BEST YOUNG TEACHER INTERNATIONAL AWARD	
	2019		K	.V.PR	ATAP	As Pro	sista fesso	nt r	I2C ED	OR OUTSTANDSING UCATOR AWARD
					<u>View</u>	<u>v File</u>				
2	.5 – Evaluation P	rocess a	Ind Refor	ms						
2 th	2.5.1 – Number of d le year	lays from	the date of	of seme	ster-end/ ye	ear- end exa	iminatio	n till the de	eclarat	ion of results during
	Programme Nam	e Pro	ogramme (	Code	Semest	er/ year	Last d semes	ate of the ter-end/ ye	last [ ear-	Date of declaration of results of semester-

				end e	examination	end/ year- end examination		
BTech	CIVII	5	II/IV	19/09/2020		15/10/2020		
BTech	EEE		II/IV	19	0/09/2020	15/10/2020		
BTech	MECHANI	CAL	II/IV	19	0/09/2020	15/10/2020		
BTech	ECE		II/IV	19	0/09/2020	15/10/2020		
BTech	CSE		II/IV	19	0/09/2020	15/10/2020		
MBA	MBA		IV/II	15/09/2020		15/10/2020		
Mtech	Mtech		I/I	07/02/2020		09/03/2020		
MCA	MCA		I/I	29/01/2020		09/03/2020		
			<u>View File</u>					
2.5.2 – Average percen the examinations during	2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year							
Number of complaints or grievances about evaluationTotal number of students appeared in the examinationPercentage						rcentage		
429	429 5702 0.075							
2.6 – Student Perform	nance and Lea	rning (	Dutcomes					
2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the								

institution are stated and displayed in website of the institution (to provide the weblink)

https://www.nrtec.in/wp-content/uploads/2021/08/EEE\_R19-Syllabus-book-updatedwith-cover-page.pdf

## 2.6.2 - Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
Civil	BTech	Civil	82	68	82.93
EEE	BTech	EEE	35	31	81.57
Mechanical	BTech	Mechanical	93	74	79.5
ECE	BTech	ECE	180	165	91.67
CSE	BTech	CSE	220	210	95.40
MCA	MCA	MCA	82	82	100
M.Tech	Mtech	CSE	4	1	25
M.Tech	Mtech	MD	3	3	100
M.Tech	Mtech	TE	3	3	100
M.Tech	Mtech	PID	2	1	50
		View	r Filo		

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://www.nrtec.in/wp-content/uploads/2021/08/1.Student-Satisfactory-Survey.pdf

1.1 – The institution provides seed money to its teachers for research										
Ves										
Name of the teacher getting seed money										
Dr.M.Sreenivasa Kumar										
		View File								
12 - Teachers awar	ded National/Internation	view File	ed studies/ research	during the year						
Туре	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency						
	No Data E	ntered/Not Applic	able !!!							
		No file uploaded	•							
2 – Resource Mobil	ization for Research									
.2.1 – Research funds	sanctioned and receiv	ed from various agencie	s, industry and other	organisations						
Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year						
Industry sponsored Projects	3	DST NIMAT	80000	80000						
Projects sponsored by the University	730	AICTE	1671000	1336800						
Projects sponsored by the University	365	AICTE	410000	410000						
Industry sponsored Projects	3	JSQUARE TECHNOLOGIES	252000	252000						
Projects     5     MNIT JAIPUR     93000     93000       sponsored by     be     be     be     be     be										
sponsored by the University				102300						
sponsored by the University Projects sponsored by the University	7	MNIT JAIPUR	102300							
projects sponsored by the University Projects sponsored by the University projects sponsored by the University	7 7 7	MNIT JAIPUR NITTTR KOLKATA	102300 22525	22525						

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

#### No Data Entered/Not Applicable !!!

## 3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Virtual reality (VR) and 3D Scanner by APSSDC	MECHANICAL ENGINEERING	10/02/2020
INDUSTRIAL DRONE MAKING	MECHANICAL ENGINEERING	03/02/2020
A one week workshop on AUTOCAD by APSSDC	MECHANICAL ENGINEERING	23/12/2019
Industrial Robotics and Field Instruments Workshop by AGIIT, Chennai	MECHANICAL ENGINEERING	26/11/2019
Angular 2 Framework	MCA	12/10/2019
A Five Day FDP on IoT Application Development using Advanced Processors	ECE	03/06/2019
A Five Day FDP on VLSI Chip Design Hands on using open Source EDA Tool	ECE	08/07/2019
AICTE sponsored Two Week FDP on Emerging Trends in Machine Learning for Biomedical Applications	ECE	27/07/2019
One day workshop on eSim, a First course in the IoT Series	ECE	21/09/2019
Recent Trends in IC Design Using Mentor Graphics EDA Tools	ECE	08/11/2019
VLSI Chip Design Hands on using Open Source EDA Tools.	ECE	16/12/2019
One day workshop on C and CPP	ECE	29/02/2020
Workshop on E-TABS software	CIVIL	24/12/2019
Workshop on Revit software	CIVIL	02/03/2020
Workshop on Autocad design software	CIVIL	03/02/2020

A Three Day Workshop On "C Programming Concepts"	CSE	22/06/2020
A Three Day Workshop On "C Programming Concepts	CSE	15/06/2020
A One Day seminar on "Big Data vs Data Analytics vs Data Science"	CSE	08/06/2020
A One Day seminar on "MACHINE LEARNING IN MEDICAL IMMAGE ANALYSIS: RECENT ADVANCES AND FUTURE TRENDS	CSE	06/06/2020
A One Day seminar on "Machine Learning	CSE	07/06/2020
A Three 3 DAY Workshop on" Python Programming	CSE	27/05/2020
A One Day Expert Talk On" FUTURE SKILLS-2030:HOW TO PREPARE FOR TOMORROW'S JOBS(INDUSTTRY 4.0)	CSE	13/03/2020
A One Day Program On" International Women's Day"	CSE	08/03/2020
A One Week Work Shop On "Angular JS-Phase11"	CSE	24/02/2020
A One Day Program On " National Science Day "	CSE	28/02/2020
JUBILATION 2020	CSE	14/02/2020
A One Day Work Shop On " C and C"	CSE	29/02/2020
A One Day seminar on "Startup Talks By Wission Talks "	CSE	04/02/2020
A Ten Days Work Shop On "Angular JS-Phase1"	CSE	03/02/2020
A One week Work shop On" Infytq Python Training "	CSE	27/01/2020
A Three 3 DAY Workshop on" Artificial Intelligence"	CSE	27/01/2020
A Six-Day Workshop on "SALES FORCE"	CSE	09/12/2019
A Three-Day Workshop on " RAPTOR TOOL"	CSE	05/12/2019
A One-Day Workshop on "R Programming"	CSE	09/11/2019

	"Red Ha	t Linux"	CSE			06/11/2019			
	A One-Day WRENDE	Workshop on ZVOUS"	CSE			05/11/2019			
	A Three-Day "Entrepre Awarenes		C	SE.		15/10/2020			
	Short Term Training Program On "Laboratory Safety Management(ICTSPL02)"			CSE			23/09/2020		
	A One-Day "LIN	Workshop on UX"		C	SE		23	8/0	8/2019
	A Five-Day Course of Developmen Technical In	Short Term n "Rural t through stitutions"		С	SE		29	0/0	7/2019
				View	<u>r File</u>				
	3.3.2 – Awards for I	nnovation won by I	nstitutio	n/Teachers	Research s	cholars	/Students during	g th	e year
	Title of the innovati	on Name of Awa	ardee	Awarding	Agency	Dat	e of award		Category
	Infrastructur	Institu	tion	TIMES	Survey	1(	)/12/2019		National
	Institution Institu Innovation Council (Three star rating)		tion MHRD Innovation ce		HRD .on cell	22	22/09/2020		National
	I2OR OUTSTANDSING EDUCATOR AWAR	K.V.PRA 2D	TAP	INTERN INSTIT ORGAN RESE	IATIONAL UTE OF IIZED ARCH	10	0/01/2020		NATIONAL
	BEST RESEAR	CH Dr.S.V.N IVASU	.sRIN	PADM MAH UNIVE	AVATHI ILA RSITY	07/01/2020		:	INTERNATIONAL
	BEST YOUNG TEACHER INTERNATIONA AWARD	K.V.PRA	ATAP	I	RDP	24	4/08/2019		NATIONAL
				<u>View</u>	<u>r File</u>				
;	3.3.3 – No. of Incub	ation centre create	d, start-	ups incubat	ed on camp	ous durii	ng the year		
	Incubation Center	Name	Spon	sered By	Name of Start-נ	the p	Nature of Star up	t-	Date of Commencement
	Narasaraop eta Engineering College (Autonomous)	Narasaraop Dassault APSSDC eta Systems Lab Engineering College Autonomous)			Dassa Systems	ult Lab	Students Software Training	55	02/11/2019
				<u>View</u>	<u>File</u>				
3	3.4 – Research Pu	blications and Av	wards						
1		and during the yea							

Name of the	Department	Number of PhD's Awarded							
	No Data Entered/Not Applicable !!!								
3.4.2 – Research Publications	in the Journals notified on l	JGC website during the year							
Туре	Department	Number of Publication	Average Impact Factor (if any)						
International	MECHANICAL	6	3.19						
International	EEE	2	5.67						
International	MBA	4	0						
International	MCA	2	0						
International	ECE	22	4.4						
International	CIVIL	17	3.25						
International	CSE	32	0.48						
	View	<u>v File</u>	-						
3.4.3 – Books and Chapters ir Proceedings per Teacher durir	n edited Volumes / Books pu ng the year	Iblished, and papers in Natio	nal/International Conference						
Depart	ment	Number of	Publication						
MECHA	NICAL		2						
М	CA	1							
CI	VIL		3						
С	SE		3						
Е	CE		4						
	View	<u>/ File</u>							
3.4.4 – Patents published/awa	arded during the year								
Patent Details	Patent status	Patent Number Date of Award							
Modulation method for FSO system under influence of different atmospheric and Fog conditions	Published	202041004488	07/02/2020						
SAR based System for Reducing the Effect of Cellular Phone Radiation According to the user health Parameters	Published	201941047253	29/11/2019						
Noise Removal System In Thoracic Electrical Bioimpedance Signals Using Normalized Clipped Logarithmic Adaptive Artifact Canceller	Published	202041027264 A	10/07/2020						

Smart Adjusting Seat	Self Toilet	Publishe	d	202041050780 A		A 04/	12/2020	
Smart Santizier and Dispe machi	Hand making ensing ne	Publishe	202041029571		31/	31/07/2020		
Retinal N disease De from Retina images N Machine Le	Vascular tection 1 Fundus sing earning	Published		2020101450		12/	12/08/2020	
Low cost Transp Disinfecti Steriliz syste	Public ort ion and ation em	Publishe	Published		202041034076		04/09/2020	
Compu Implemented for Optim Placemen Routing i Large S Integrated (VLSIC) I	Computer- Demented System For Optimizing Placement and Duting in Very Large Scale egrated Circuit VLSIC) Design		Published		201941021599A		09/08/2019	
Peak to Power R Reduction for MIMO Syste	Average atio Method -OFDM em	Published		2(	02041049074A	13/	/11/2020	
3.4.5 – Bibliomet Web of Science of	rics of the public or PubMed/ India	cations during the an Citation Index	last aca	ademic y	ear based on av	erage citation in	dex in Scopus/	
Title of the Paper	Name of Author	Title of journal	Yea public	r of ation	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation	
Impact of Service Quality Dimenstion of Digital ization on Customer S atisfactio n in Banking Sector	I.Sridhar	Scopus Journal of Test Engin eering Man agement, Volume 83, ISSN No.01 93-4120.	2	020	0	NARASARA OPETA ENGI NEERING COLLEGE	Nill	
HRD - Banks in the ICT Era a Focus on	Dr. S. Venkata Ramana	Web of sciences (ESCI) Vol.14 Issue No.	2	019	0	NARASARA OPETA ENGI NEERING COLLEGE	Nill	

Private sector Banks" web of sciences (ESCI)		- 5 ISSN: 0973-8975.				
Implemen tation of Photovolta ic Energy Conversion system with MPPT based P O	P.D.V.S. K.Kishore	JASC: Journal of Critical Reviews	2019	2	NARASARA OPETA ENGI NEERING COLLEGE	2
A Case Study of Wind Turbine Loads and Performanc e using Steady Steady State Analysis of BEM	Dr. D.Jagadish	Internat ional Journal of Sustainabl e Energy	2020	1	NARASARA OPETA ENGI NEERING COLLEGE	Nill
<pre>Influence     of     modifier     oxides on     spectrosco         pic     features     of Nd203     doped Pb0- Mo203-W03- B203 glass     es(with     Ro203     Sb203, Al203, and     Bi203)"</pre>	Dr.SB. Venkata Siva	Journal of Lumines cence	2020	2	NARASARA OPETA ENGI NEERING COLLEGE	1
Comparat ive perfor mance and emission studies of the CI engine with Nodularia Spumigena microalgae biodiesel versus different	Dr. D.Jagadish	SN Journal of Applied Sciences	2020	0	NARASARA OPETA ENGI NEERING COLLEGE	Nill

vegetable oil derived biodiesel						
Computat ional fluid dynamic analysis of Nodularia Spumigena Microalgae Biodiesel and Karanja biodiesel blends using ANSYS in CI engine	Dr. D.Jagadish	MATERIAL STODAY PRO CEEDINGS	2020	0	NARASARA OPETA ENGI NEERING COLLEGE	NILL
The Numerical Research of Bubble Growth and Bubble Frequency in Pool Boiling using Metal Oxide Nano Fluid	P Sravani	Internat ional Journal of Innovative Technology and Exploring Engineerin g	2020	6.3	NARASARA OPETA ENGI NEERING COLLEGE	Nill
Experime ntal Analysis of Vapour Compressio n Refriger ation System	Shaik Bajan	Internat ional Journal Of Creative Research Thoughts	2020	7.97	NARASARA OPETA ENGI NEERING COLLEGE	Nill
Harmonics and Voltage Quality in Post Fault Recinfigur ed 7-level Diode Clamped Multilevel inverters	SK.MD.sh areef	JASC: Journal of Critical Reviews	2019	2	NARASARA OPETA ENGI NEERING COLLEGE	2
			<u>View File</u>			

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)						
Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
HRD - Banks in the ICT Era a Focus on Private sector Banks" web of sciences (ESCI)	Dr. S. Venkata Ramana	Web of sciences (ESCI) Vol.14 Issue No. - 5 ISSN: 0973-8975.	2019	Nill	Nill	NARASARA OPETA ENGI NEERING COLLEGE
Harmonics and Voltage Quality in Post Fault Recinfigur ed 7-level Diode Clamped Multilevel inverters	SK.MD.sh areef	JASC: Journal of Critical Reviews	2019	Nill	Nill	NARASARA OPETA ENGI NEERING COLLEGE
<pre>Influence     of     modifier     oxides on     spectrosco     pic     features     of Nd2O3     doped PbO- Mo2O3-WO3- B2O3 glass     es(with     Ro2O3     sb2O3, Al2O3, and     Bi2O3)"</pre>	Dr.SB. Venkata Siva	Journal of Lumines cence	2020	110	1	NARASARA OPETA ENGI NEERING COLLEGE
A Case Study of Wind Turbine Loads and Performanc e using Steady Steady State Analysis of BEM	Dr. D.Jagadish	Internat ional Journal of Sustainabl e Energy	2020	27	1	NARASARA OPETA ENGI NEERING COLLEGE

Comparat ive perfor mance and emission studies of the CI engine with Nodularia Spumigena microalgae biodiesel versus different vegetable oil derived biodiesel	Dr. D.Jagadish	SN Journal of Applied Sciences	2020	Nill	Nill	NARASARA OPETA ENGI NEERING COLLEGE
Computat ional fluid dynamic analysis of Nodularia Spumigena Microalgae Biodiesel and Karanja biodiesel blends using ANSYS in CI engine	Dr. D.Jagadish	MATERIAL STODAY PRO CEEDINGS	2020	27	Nill	NARASARA OPETA ENGI NEERING COLLEGE
The Numerical Research of Bubble Growth and Bubble Frequency in Pool Boiling using Metal Oxide Nano Fluid	P Sravani	Internat ional Journal of Innovative Technology and Exploring Engineerin g	2020	40	Nill	NARASARA OPETA ENGI NEERING COLLEGE
Experime ntal Analysis of Vapour Compressio n Refriger ation System	Shaik Bajan	Internat ional Journal Of Creative Research Thoughts	2020	Nill	Nill	NARASARA OPETA ENGI NEERING COLLEGE

<pre>"Impleme P. ntation of K.K: Photovolta ic Energy Conversion system with MPPT based P 0</pre>	D.V.S. ishore	JASC: Journal c Critical Reviews	2	019	2	1		NARASARA OPETA ENGI NEERING COLLEGE
SK Harmonics an and Voltage Quality in Post Fault Recinfigur ed 7-level Diode Clamped Multilevel	.MD.sh ceef	JASC: Journal c Critical Reviews	2 of	019	2	1		NARASARA OPETA ENGI NEERING COLLEGE
inverters			View	v File				
3 4 7 – Faculty participa	ation in Se	minars/Confe	erences and	l Symposi	a during the ve	ar		
Number of Faculty	Inter	national	Nati	onal	State	2		Local
Attended/Semi		5 2		14	Ni	11	Nill	
nars/Workshops	nars/Workshops							
Presented papers	ented 6 ers		6		Ni	11		Nill
Resource persons		3	N	ill	Ni	11		Nill
			<u>Viev</u>	<u>v File</u>				
3.5 – Consultancy								
3.5.1 – Revenue gener	ated from	Consultancy	during the y	/ear				
Name of the Consulta department	in(s)	Name of consultancy		Consulting/Sponsoring Agency		g R	Revenue generated (amount in rupees)	
MECHANICAL		Stir Ca	sting	RVR JC				1500
		Machin	e	enginee	ering Colle	ge		
MECHANICAL		Stir Ca Machin	sting	Sai ' Enginee	Sai Tirumala NVR Engineering College		1500	
MECHANICAL		Pollution Center	n Test r	VEH	IICLE OWNER		2200	
ECE	fi	Maintena bre seen s	nce of apphire	M/S Spinne	Mittapall: ers Limited NRT	i ,		10000
ECE		Calibratio and Temper sensor	n of RH ature s	M/S Spinne	Mittapall: ers Limited NRT	i ,		10000
ECE	E	Eractic Digital hu sensor	n of midity s	M/S Spinne	Mittapall: ers Limited NRT	i ,		10000

			<b>1</b>					
Civil Engineerin	g Soil Te	sting	Secretary Gram Panchayati, Minnekallu		3500			
Civil Engineerin	g Soil Te	sting	Secro Panc Tang	etary Gram Shayati, edumalli	3500			
Civil Engineerin	g Soil Te	sting	Secro Panc Ada	etary Gram Shayati, vipalem		3500		
Civil Engineerin	g Soil Te	sting	Secro Panc Makkina	etary Gram Shayati, varipalem-2		3500		
		View	v File					
3.5.2 – Revenue generated	from Corporate Tr	aining by th	e institution	during the year				
Name of the Consultan(s) department	Title of the programme	Agency s trair	seeking / ning	Revenue genera (amount in rupe	ated es)	Number of trainees		
CSE	Project Training	JSo Techno	quare logies	160000		16		
		View	<u>v File</u>					
3.6 – Extension Activitie	3.6 – Extension Activities							
3.6.1 – Number of extension Non- Government Organisa	3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Ion- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year							
Title of the activities	Organising unit collaborating	Organising unit/agency/ collaborating agency		r of teachers bated in such ctivities	Nı pa	umber of students articipated in such activities		
Conducted Free Eye Check-Up Camp	NSS Unit ordination Nayana Hospita Vijayaw	NSS Unit in co- ordination with Nayana Eye Hospital, Vijayawada		6		42		
Spiritual Sessio by Sri.B.KDil Reddy, (Raja Yogi) Mount Abu, Rajasthan	n NSS Unit ordination Brahmakum Organisatic	NSS Unit in co- ordination with Brahmakumari's Organisation, NRT		6		60		
Organized Awareness on Traffic Control Signals	NSS Unit ordination Traffic P Station Narasara	NSS Unit in co- ordination with Traffic Police Station, Narasaraopet		6		62		
Vanam - Manam NSS Ur Program MPDO o Narasa		: with ice, opet		6		40		
Conducted Essay Writing Competitio on the eve of 150t Birth Anniversary of Mahatma Gandhi	NSS U n coordinate h JNTU Kaki	NIT d with Inada		6	40			
Conducted Debate	NSS U	nit		6		15		

	Competition on water crisis in India	n	coordinate MHRD	d with					
	Conducted Awareness Progra on Career Guidan	am 1Ce	NSS U	nit		6		60	
	Conducted Blood NS Donation Program ord Govt.		NSS Unit in co- ordination with Govt.Hospital, NRT		6			34	
	Conducted International Da of Yoga	ay	NSS Unit in co- ordiantion with Sri Venkateswara Yoga Seva Kendram, NRT		6			64	
	Conducted International Waters Day		NSS U	nit		6		60	
				<u>View</u>	<u>r File</u>				
; d	3.6.2 – Awards and reco luring the year	gnitio	on received for ex	tension acti	ivities from	Government and	other	recognized bodies	
	Name of the activity	/	Award/Reco	gnition	Awarding Bodies		Number of students Benefited		
	Participation in "Mahasivaratri Local Festival" at Kotappakonda		Appreciation from DSP Narasaraopeta		DSP office, Narasaraopeta			90	
	Vanam - Manam Aj Program		Appreciation from MPDO office, Narasaraopet		MPDO office, Narasaraopet			40	
				View	<u>r File</u>				
; C	3.6.3 – Students particip Drganisations and progra	ating	in extension acties such as Swach	vities with G hh Bharat, A	overnment ids Awaren	Organisations, No ess, Gender Issue	on-Go e, etc	overnment . during the year	
	Name of the scheme	Orga cy	nising unit/Agen /collaborating agency	Name of th	ne activity	Number of teachers participated in such activites		Number of students participated in such activites	
	Conducted a Rally on Plastic Waste Pollution		NSS Unit	Ral: Plastic Pollu	ly on Waste Htion	6		80	
	Participation Traffic in a Rally in Police, DSP support of DISA Office Act		Ral: support Ac	ly in of DISA t	8		80		
	Vanam - Manam Appreciation Program from MPDO office, Narasaraopet		ppreciation from MPDO office, rasaraopet	MPDO ( Narasa	office, raopet	6		40	
	Conducted Awareness Program on Career Guidance		NSS Unit	Ca: guida	reer ance	6		60	

	Free eye session	Nay Hos <u>r</u> Vija	ana E pital, yawad	Eye E , la	lye cl	heck up		9		42
	Blood Donation Program	ood NRT Blood tion Bank ram		od Do	Blood Donation camp		6			150
					<u>View</u>	<u>File</u>				
3	.7 – Collaboratior	IS								
	3.7.1 – Number of C	ollaborative a	ctivitie	s for reseau	rch, fac	ulty exchar	ige, stud	dent excha	ange duri	ng the year
	Nature of activity		Pa	articipant		Source of f	inancial	support		Duration
			No Da	ita Enter	red/No	ot Applio	cable	111		
				No	file	uploaded	l.			
; fa	3.7.2 – Linkages wit acilities etc. during t	h institutions/ he year	industri	ies for inter	nship,	on-the- job	training,	, project w	ork, shar	ing of research
	Nature of linkage	Title of the linkage	e	Name of partnerin institutio industry /research with conta details	the ng n/ y lab act	Duration	From	Duratio	on To	Participant
	Internship	Interns	hip	Jayabh Automot: Pvt Lt	eri ive :d	06/02/	2020	06/05	5/2020	J. Manikanta
	Internship	Interns	hip	Jayabh Automot: Pvt Lt	eri ive :d	06/02/	2020	06/05	5/2020	K Ashok Ch akraravarthi
	Internship	Interns	hip	Sunda: Fastene Ltd	ram ers	05/02/	2020	05/05	5/2020	Sk. Jani Basha
	Internship	Interns	hip	Sunda: Fastene Ltd	ram ers	05/02/	2020	05/05	5/2020	P Pavan Kumar
	Internship	Interns	hip	Sunda: Fastene Ltd	ram ers	05/02/	2020	05/05	5/2020	B Sukendar Reddy
	Internship	Interns	hip A	Hindus Aeronaut: Ltd	tan ical	20/05/	2019	12/06	5/2019	M Venkata Hemanth Kumar
	Internship	Interns	hip A	Hindus Aeronaut: Ltd	tan ical	06/11/	2019	16/11	/2019	Sk Jani Basha
	Internship	Interns	hip A	Hindus Aeronaut: Ltd	tan ical	06/11/	2019	16/11	/2019	Prayaga NVSSS Datta Kiran
	Internship	Interns	hip A	Hindus Aeronaut: Ltd	tan ical	06/11/	2019	16/11	/2019	Goli Rushikesh Maruthi
	Internship	Interns	hip	Hindus	tan	06/11/	2019	16/11	/2019	Mandava

		Aeronautical Ltd		Venkata Hemanth Kumar				
	<u>View File</u>							
3 h	3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year							

_			//			
	Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs		
	NARASARAOPETA ENGINEERING COLLEGE	27/10/2020	Software Training (CATIA, DELMIA, SIMULIA)	406		
	M/S BYTEXL INDIA PRIVATE LIMITED	16/10/2020	To set up a Centre Of Excellence (COE) within the campus to train students in the field of Cyber Security.	120		
	NARASARAOPETA ENGINEERING COLLEGE	11/07/2019	TCS-ION through AICTE	406		
	NARASARAOPETA ENGINEERING COLLEGE	01/01/2019	JSquare Technologies, 2-58/JOC/B-406, Jayabheri Orange County , Gachibowli, Hyderabad TG 500032	450		
		Viev	<u>v File</u>			
С	RITERION IV – INFRAS	TRUCTURE AND LEAR				
4	.1 – Physical Facilities					
4	1.1.1 – Budget allocation, exc	cluding salary for infrastructur	re augmentation during the y	ear		
	Budget allocated for infra	astructure augmentation	Budget utilized for infra	structure development		
	5	572	56	9.21		
2	1.1.2 – Details of augmentativ	on in infrastructure facilities c	Juring the year			
	Facil	lities	Existing or N	lewly Added		
	Campu	ıs Area	Exi	sting		
	Class	; rooms	Exi	sting		
	Labor	atories	Newly	Newly Added		

 Seminar Halls
 Existing

 Classrooms with LCD facilities
 Existing

 Seminar halls with ICT facilities
 Existing

 Number of important equipments
 Newly Added

 purchased (Greater than 1-0 lakh)
 Newly Added

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4.2 – Library as a Learning Resource										
4.2.1 – Libra	ary is autom	ated {	Integr	ated Librar	y Managem	ent Syster	n (ILMS)}			
Name so	of the ILMS oftware	;	Natu	re of autom or patial	ation (fully ly)	Version			Year of automation	
]	LIPSYS			Full	-У		7.0		2	800
4.2.2 – Libra	ary Services	6								
Library Service Ty	/pe		Existir	ng		Newly A	dded		Total	
Text Books	- 4	17468	3	1033778	35 3	346	183433	478	314	10521218
Referen Books	ce	7392		163255	6	96	47070	74	88	1679626
e-Boo	ks	1500		13750	4	000	5600	55	00	19350
Journa	als	74		124830	)	53	78868	1:	27	203698
e- Journal	ls	1		13750		1	5600	:	2	19350
Digit. Databas	al se	1		13750		1	13570	:	2	27320
CD ۵ Video	È	1500		Nill		500	Nill	20	2000	
					<u>Viev</u>	<u>/ File</u>				
4.2.3 – E-co Graduate) SV (Learning Ma	ntent devel WAYAM oth anagement f the Teach	oped I ner MC Syste er	by tea DOCs m (LN Na	chers such platform NI IS) etc ame of the I	as: e-PG- F PTEL/NMEI Module	Pathshala, CT/any oth Platform	CEC (under ner Governm	e-PG- Path nent initiativ	nshala CE es & insti	EC (Under tutional unching e-
						is o	developed		cont	ent
			N	o Data E	ntered/N	ot Appli	cable !!	!		
					No file	uploade	d.			
4.3 – IT Infra	astructure	•								
4.3.1 – Tech	nology Up	gradat	ion (o	verall)				1		
Туре	Total Co mputers	Comp La	buter Ib	Internet	Browsing centers	Computer Centers	Office	Departme nts	Availabl Bandwid h (MBPS) GBPS)	e Others dt S/
Existin g	1184	2	5	1184	2	4	10	20	64	0
Added	40	1		40	0	0	0	0	0	0
Total	1224	2	6	1224	2	4	10	20	64	0
4.3.2 – Band	dwidth avail	able c	of inter	net connec	tion in the l	nstitution (I	_eased line)			
					146 MB	PS/ GBPS	3			
4.3.3 – Facil	lity for e-co	ntent								
Nam	e of the e-c	onten	t deve	elopment fac	cility	Provide	the link of th	ne videos a cording faci	nd media lity	centre and

Med	lia c	enter	with	Lect	ture	Car	pture	
system-	SONY	Camer	a, Re	ecord	ling	Fac	cility	-
SONY	CAMC	ORDER,	Trip	pod,	Coll	lar	Mike	

https://www.nrtec.in/wp-content/uploads /2021/08/4.3.3-e-content.pdf

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities facilities facilities		Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites	
93	93	124	123	

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

The college ensures optimal allocation and utilization of the available financial recourses for maintenance and upkeep of different facilities by holding regular meetings of various committees constituted for this purpose and using the grants received the college as per the requirements in the interest of students. • Laboratory: Record of maintenance account is maintained by lab technicians, Lab-in-charge and supervised by HODs of the concerned departments. • Maintenance of laboratories are as follows: - The calibration, repairing and maintenance of sophisticated lab equipment's are done by the technicians of related owner enterprises. • Library: - 1. The requirement and list of books is taken from the concerned departments and HOD's are involved in the process. The finalized list of required books is duly approved and signed by the Principal. 2. Suggestion box is installed inside the reading room to take users feedback. Their continuous feedback helps a lot in introducing new ideas regarding library enrichment. 3. To ensure return of books, 'no dues' from the library is mandatory for students before appearing in exam. 4. Other issues such as weeding out of old titles, schedule of issue/ return of books etc. are chalked out / resolved by the library committee. 5. LIBSYS software is used in Library. Sports: - Physical Director will maintain the sports equipment regularly. • Computers: - 1. Centralized computer laboratory established to enrich the students. 2. ERP software is used for maintaining faculty and students details. 3. Each Department having appropriate computer for their requirements. 4. Internet and WIFI Enabled campus. 5. Open access journals facilities are available. • Classrooms: - 1. The college has various committees for maintenance and upkeep of infrastructure. At the departmental level, HODs submit their requirements to the Principal regarding classroom furniture and other. 2. Administrative officers will take in charge for student's academic requirements. • Additionally: - 1. There is lab instructors in every department, who maintains the stock register by physically verifying the items round the year. 2. Department wise annual stock verification is done by concerned Head of the Department. 3. Regular maintenance of Computer Laboratory equipment's are done by Laboratory Assistant along with Laboratory attendant and they are headed by the faculty in-charge. 4. Regular cleaning of water tanks, proper garbage disposal, pest control, landscaping and maintenance of lawns is done by Institute Concern Employees. 5. College campus maintenance is monitored through regular inspection. 6. Upkeep all facilities and cleanliness of environment in men's and women's hostel is maintained through Hostel monitoring committee. 7. Outsourcing is done for maintenance and repairing of IT infrastructure such as computers, internet facilities including Wi-Fi and broadband. The institution has a dedicated hard ware team headed by HOD CSE to oversee the procurement, maintenance, repairs and replacement of equipment like computers, laptops, projectors and others in the domain area of information technology across the institution. 8. Updating of software's is done by lab

# assistants. 9. Outsourcing is done for the maintenance of wooden, furniture, electrification, and plumbing.

https://www.nrtec.in/wp-content/uploads/2021/08/2.Policies-for-Maintaining-and-Utilizing.pdf

## **CRITERION V – STUDENT SUPPORT AND PROGRESSION**

## 5.1 – Student Support

## 5.1.1 - Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees			
Financial Support from institution	Financial Support from institution	0	0			
Financial Support from Other Sources						
a) National	Government tution fee reinbursement Scheme	2510	108000000			
b)International	Nill	Nill	0			
<u>View File</u>						

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved					
"Internship Awareness programme" Carrier Guidance programmes Carrier Guidance "Spiritual Knowledge" "Mindfulness Program"	19/07/2019	300	narasaraopet engineering college					
Carrier Guidance programmes	23/07/2019	320	narasaraopet engineering college					
Carrier Guidance	30/08/2019	300	narasaraopet engineering college					
"Spiritual Knowledge"	11/10/2019	300	narasaraopet engineering college					
"Mindfulness Program"	13/12/2019	280	narasaraopet engineering college					
	<u>View File</u>							

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	Gate coaching	15	2	5	Nill

			i						
2019	CRT	150	130	125	55				
2020	Gate coaching	25	5	3	Nill				
2020	CRT	180	25	33	35				
		View	<u>/ File</u>	-					
5.1.4 – Institutional harassment and rag	mechanism for tran ging cases during t	sparency, timely re he year	dressal of student	grievances, Preven	tion of sexual				
Total grievan	ces received	Number of grieva	ances redressed	Avg. number of da redre	ays for grievance essal				
N	ill	N	ill	N	ill				
5.2 – Student Prog	gression								
5.2.1 – Details of campus placement during the year									
	On campus			Off campus					
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed				
MULTIC4:F2 4PLIER SOLUTIONS	350	7	IBM	110	2				
		View	<u>/ File</u>						
5.2.2 – Student prog	gression to higher e	education in percent	tage during the yea	ir					
Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to				
2019	1	B.TECH	MECH	Hochschule Kaiserslaute rn, University of Applied Sciences	M.S				
2019	1	B.TECH	MECH	Otto-von- Guericke Universitat Magdeburs	M.S				
2019	2	B.Tech	EEE	ACHARYA NAGARJUNA UNIVERSITY	M.E				
2019	1	B.Tech	CSE	Univercity central mizari	M.S				
2019	1	B.Tech	CSE	NJIT	M.S				
2019	1	B.Tech	CSE	CQ Univercity Australia	M.S				
2019	1	B.Tech	CSE	JNTU KAKINADA	M. Tech				

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2020	lst place Chess	National	1	Nill	19471A05E6	G.V.KART HIK
2020	lst place CARROMS	National	1	Nill	16471A05G2	P.SAI KRISHNA
2020	lst place TENNIKOIT (Girls)	National	1	Nill	17471A05E3	R.PRASANNA
Nill	lst place TENNIKOIT (Girls)	National	1	Nill	18471A05H9	V.RAMYA
2020	1st place SHUT TLE- BADMINTON (Girls)	National	1	Nill	18471A0596	N.ANUSHA
	<u>View File</u>					

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Class review committee: Students will be representing the syllabus coverage, feed back and other academic problems to the committee. IQAC members: Students will be nominated as IQAC members and suggestions will be considered for improving the quality in education. Innovation cell: Students in the cell conducts various innovative programs in every year. Entrepreneurship Development Cell: Students are actively participated in entrepreneurship awareness camp and workshops. Women empowerment cell: All the women students will be discuss with their problems on periodical basis. Bhuvana Vijayam club: Extra curricular activities will be organized by this cell. Painting and photography club: workshops will be conducted to elicit the art of students on world photography day and also to motivate the students for painting drawing classes will be conducted with external art master. Models and Prototype club: workshops are organizing to develop idols with waste materials in the occasionof vinayaka chavithi. Dance Club: For entertainment of the students dance club is actively organizing different training sessions and programs for identifying the best performer in the dance and culture. The institution has a practice of identifying student representatives for each class and nominates them to the student council. The members from this council are adopted for different administrative bodies. The council is responsible for conduct of any activity in the campus including curricular, cocurricular and extracurricular activities. The activities of the council would be supported by the participation of all the faculty members. The required funding for conduct of such events is met by the management of the institution. The institution has staffstudent consultant committee to discuss and solve problems related to academic, cocurricular activities, extracurricular activities, industry interaction and research.

## 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of registered Alumni:

#### No Data Entered/Not Applicable !!!

5.4.3 – Alumni contribution during the year (in Rupees) :

#### No Data Entered/Not Applicable !!!

5.4.4 - Meetings/activities organized by Alumni Association :

22-11-2020

## **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

#### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The institute practice decentralization and participative management. 1. COVID-19 Counter Initiatives Safety Security along with excellence in academics and RD became the top priority during the outbreak of COVID 19. A team was constituted under the supervision of HoD, CSE department to find the best solutions for completing the pending syllabus in the even semester of the academic year 2019-20 and conduction of internal examinations through online mode using Microsoft Teams to handle the pandemic situation. The principal constituted a committee to look after the sanitization and covid-19 preventive actions in the campus effectively under the supervision of the administrative officer. The principal constituted a team under the supervision of HoD, CSE department to provide free access to COURSERA MOOCs platform for students and faculty to upgrade their skills during lockdown period succeeded in getting fruitful results. • Explored on innovative online resources for teaching and learning. • Facilitated Network, Wi-Fi, Connectivity with adequate Bandwidth to continue academic activities such as online teaching learning, Assessment and for Assignment examinations, project reviews and virtual laboratories for Lab based Courses using Google meet, Zoom app, WebEx. • Sanitization of physical infrastructure, classrooms, corridors, washrooms, office areas, distribution of masks, maintenance of hygiene. • Health Safety COVID specific advisories, posters, signage and instructions are displayed at important places in the campus to bring out awareness and reinforce responsible behaviour • Capacity Building of student and Teachers with Online Education Resources such as coursera, webinars from professors of reputed Institutions • Robust Mentor Mentee System for Student counseling on Internships and placement activities, Parents Interaction Forum • Screening and social distance protocol w.r.t temperature reading and sanitization is followed. 2. Innovative Practices adopted for more number of placements with better packages in addition to existing mechanism Various innovative activities are taken up for improving number of placements with high packages in the academic year 2019-20 : • Competitive Coding Labs: Competitive Coding Lab has equipped with E-Box tool have been introduced in the institute for developing coding skills in students, that helped the students to improve problem solving skills, getting expertise in software Design and programming languages and as well expanding creativity in coding abilities. • Students were motivated towards design thinking, innovative practices, prototyping of a model through workshops, seminars and guest lectures etc. The Innovation and Incubation Cell (IIC) introduced Innovation day on 15th October 2019 to display the student's innovative ideas in memory of Dr A.P.J Abdul Kalam. The innovative models developed and exhibited at various platforms helped the students in getting good placement.

The faculty member from each department started assisting training and placement officer through identifying the core industries for the respective departments and succeeded in getting new core companies to the campus for placement drive.

## 6.1.2 - Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 - Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	<ul> <li>To revise the curriculum of all the UG and PG Programmes according to the revision proposed by AICTE which is the blend of Technological, Ethical, Environmental, Program Specific and Societal aspects. • To redesign the curriculum to inculcate the concepts that can offer the solutions for the industrial problems. • To increase student-centered activities that involves them more in the design and implementation of curricular, cocurricular and extra-curricular activities, so the students can excel in multi-disciplinary dimensions. • To incorporate the concepts of Blooms Taxonomy in revising the course structure and syllabus to have a well explained and aimed course outcomes Open electives and mandatory courses are introduced in the curriculum.</li> </ul>
Teaching and Learning	The day to day classroom delivery is through modern pedagogy evenly balancing the traditional methodology. The classrooms are equipped with the required infrastructure to facilitate the new modes of delivery. • The faculty are trained on the ICT methodologies and continuous apprise of the same is provided through conduct and participation in faculty development programmes, workshops and seminars. • Exclusive E-learning Centers are developed for the online as well as ICT based trainings, and also to support teaching fraternity with the advanced communication facilities to facilitate the trainings on effective teaching - learning processes. The measures are taken for the benefit of students. Tutorial/Remedial classes are conducted for the slow learners based on their performance in external exams and after the first internals. Students are motivated regularly for better

	<pre>performance in the academics and for higher studies and university ranks. Technical quizzes are conducted for the students. Industrial visits are conducted at least once a year to reduce the gap between industry and institute. Workshops are organized to help the students to understand concepts beyond curriculum Identification of bright and weak students is done and the weak students are motivated to attend remedial classes. Bright students are encouraged to attend more workshops, conferences and contests GATE classes are conducted for the GATE aspirants.</pre>
Examination and Evaluation	<ul> <li>Question Papers are set by outside subject experts from reputed Institutions.</li> <li>40 of the marks are considered as internal marks through continuous evaluation.</li> <li>Semester end examination evaluation is done by external faculty</li> <li>Declaration of results of semester end examinations within two weeks by conducting spot valuation</li> <li>Revaluation facility is provided.</li> </ul>
Research and Development	<ul> <li>Motivating faculty students and driving them towards research and providing the required technical as well as financial assistance •</li> <li>Encouraging the students to come up with smart and new ideas for working with utmost interest in the respective research labs and incubation centers towards the new innovations and inventions • Conducting concerted research in multi disciplines by proper interaction with Industry and RD institutes. • Students should be given access to visit industries and identify the recurring problems so they can conduct a rigorous research and come with best possible solution</li> </ul>
Library, ICT and Physical Infrastructure / Instrumentation	The college provides central library and department libraries through which students get access to books, various series of learning videos, lectures, inspirational talks on variety of disciplines covering the academic, employability and entrepreneurial skill sets • Library is automated with Libsys Soft for library management • Access to e-content • seminar halls are available The class rooms are provided with LCD projector facility. Also,

Human Resource Management	Teaching staff are encouraged to attend faculty development programmes, workshops/training programmes and conferences by sponsoring registration fee, TA and DA • Performance based appraisal system is adopted • Financial assistance is provided to carry out research projects.
Industry Interaction / Collaboration	<ul> <li>Planning the Industrial Visits</li> <li>Periodically by organizing industrial</li> <li>visits • Motivating Students towards</li> <li>internships that will help the students</li> <li>for having the real time work</li> <li>experience and will help them to get</li> <li>placements • Organizing Workshops and</li> <li>Seminars in collaboration with industry</li> <li>Industry experts are members in the</li> <li>academic committees of the departments.</li> <li>MOUs are signed with the industries for</li> <li>providing training and Placements</li> </ul>
Admission of Students	Admission of students into the institute are made through common entrance test based on the rank as per Government norms • 70 of seats are filled based examination rank under category-A quota • 30 of seats are filled under category-B quota •Participating in NBA, NIRF, ARIIA , times and other agencies survey and Improving the perception about the institution by giving wide publicity through various channels

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Finance and Accounts	Fee collection and other related payments are done through online ( Digital transaction).
Student Admission and Support	Admission procedure is done through BEES software. Student attendance, marks are communicated through SMS.
Examination	Exam fee collection,generation of hall tickets, preparation of seating plan, declaration of results and printing of mark sheets etc are done through BEES software.
Planning and Development	<ul> <li>SMS system for dissemination of information including regular notice to all stakeholders is implemented.</li> <li>Office is digitalized maintaining complete database of students, faculty and staff etc.</li> <li>Library is automated using 'Lib Soft' version 9.8 of Environ Software, Bangalore.</li> </ul>

Administration	Signage Boards are provided to display notices for students and other stakeholder. • PFMS portal is uploaded regularly with expenditure related to Govt. fund. • Notices and circulars are uploaded in the college website and communicated to different departments through e-mail from the office of the Principal • Salary of faculty members and staff is transferred directly to the bank account.
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## 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	K.V.PRATAPH	NATIONAL WORKSHOP ON RECENT TREND IN CIVIL ENGINEERING	NA	500
2019	K.V.PRATAPH	AP SCIENCE CONGRESS 2019	NA	2000
2019	Dr.G.BABU RAO	AP SCIENCE CONGRESS 2019	NA	2000
2019	Dr.G.BABU RAO	HYDRAULICS AND HYDRALOGY	NA	500
2019	Dr.G.BABU RAO	ICSET-2K19	NA	2000
2019	Mr.SK.ZuberBa sha	Applied Robotics Control Lab Faculty Development Program:2.0	NA	400
2019	Mr.V.Rama Krishna Reddy	Student Induction	NA	500
2019	Mr.SK.ZuberBa sha	Basic Robotics	APSSDC - SIEMENS	1165
2019	Dr.P.LAKSHMAN	MODELING AND REAL TIME IMPLEMENTATION OF ELECTRICAL SYSTEM	NITTTR CHANDIGHAR	5500
2019	M.CHANDRA SEKHAR	MODELING AND REAL TIME IMPLEMENTATION OF ELECTRICAL SYSTEM	NITTTR CHANDIGHAR	5500
		<u>View File</u>		

6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

 5	3	3 ,				
Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Effective Teaching	Nill	15/07/2019	19/07/2019	5	Nill
2020	INDUSRIAL ROBOTICS FIELD INST RUMENTS	Nill	26/11/2019	30/11/2019	22	Nill
2020	Control Panel Designing Field Inst ruments"	Nill	04/02/2020	08/02/2020	20	Nill
2019	One Day Workshop on "Koha and Library Automation	One Day Workshop on "Koha and Library Au tomation"	12/10/2019	12/10/2019	10	5
2020 Nill Training on MS- office 13/03/2020 13/03/2020 Nill 10						10
			<u>View File</u>			

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
EFFECTIVE TEACHING	65	15/07/2019	19/07/2019	5
RURAL DEVELOPMENT THROUGH TECHNICAL INSTITUTION	95	29/07/2019	02/08/2019	8
ADVANCES IN MANUFACTURING	40	09/09/2019	13/09/2019	5
DESIGN AND MANUFACTURING ON 3D EXPERIENCE PLATFORM	37	19/11/2019	23/11/2019	5

INDUSRIAL ROBOTICS FIELD INSTRUMENTS WORKSHOP	34	26/1	1/2019	30	)/11/203	19 5	
IOT IN MANUFACTURING -NITTTR	32	06/0	1/2020	10/01/202		20 5	
GREEN MANUFACTURING -NITTTR	31	03/0	2/2020	07	/02/20:	20 5	
RESENT TRENDS IN AUTOMOBILE TECHNOLOGY	33	24/0	2/2020	28	3/02/202	20 5	
		View	<u>v File</u>				
6.3.4 – Faculty and Staff	f recruitment (r	o. for permanent re	ecruitment):				
	Teaching				Non-tea	aching	
Permanent		Full Time	Per	manent	t	Full Time	
60		60		12		12	
6.3.5 – Welfare schemes	s for						
Teaching		Non-te	aching			Students	
Life Insurar	nce for	EPF for n	on teachi	.ng	Fee concession for		
		500			er		
6.4 – Financial Manage	ement and Re		audits regula	arly (wit	h in 100 v	words each)	
		icm of both i				eudita for all the	
The college has the mechanism of both internal and external audits for all the financial activities carried out in the Institution every Year. Accounts department headed by Deputy Manager (Accounts) maintains financial accounts daily and prepares all financial statements and submits them to all statutory bodies like AICTE, UGC and State Government as and when required. The college has both Internal and External audit system. Internal Audit: The Principal constitutes an Internal Audit Committee with three members. The audit is conducted on a Sampling basis to check the correctness of the financial transactions and statement affairs of the Institution. The Committee verifies Cashbook, Bank accounts, Ledgers, Bills, Vouchers, and statement of cash position and cash flow physically and conducts sample check on the heads of various accounts, balance dates, and postings. External Audit: M/S Muralikrishna and Co., Narasaraopet, have been auditors for the Institution from the past decade. An annual external audit is conducted, and the reports are submitted to the management. The Finance Committee ratifies these reports. Audit of funds received from Government and Non-Government research funding agencies Consultancy is duly done as per the guidelines of the funding agencies as and when required.							
year(not covered in Crite	6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)						
Name of the non go	overnment	Funds/ Grnats	received in F	Rs.		Purpose	

funding agencies /individuals		
MANAGEMENT	250173	Project works
	<u>View File</u>	

6.4.3 - Total corpus fund generated

### No Data Entered/Not Applicable !!!

## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal		
	Yes/No	Agency	Yes/No	Authority	
Academic	Yes	Two Professors from different colleges and universities	Yes	IQAC team	
Administrative	Yes	Two Professors from different colleges and universities and one auditor	Yes	IQAC team	

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Parent teacher meeting is conducted and student progress is informed Daily SMS is sent to the parents of the student absentees Parents of students who have attendance shortage and academically weak are called to the college and informed of their wards performance. Feedback given by parents is used to improve teaching learning process. Parents are included in various committees and their suggestions are implemented. Parents support is taken improve social responsibility in students. Annual meeting is conducted to identify the problems and issues related to students. Regular meetings with parents helps in improvement of performance of students.

6.5.3 – Development programmes for support staff (at least three)

M.S Office KOHA Library software IOT workshop on Arduino Installation Laboratory Safety Management Rural Development through technical education

6.5.4 – Post Accreditation initiative(s) (mention at least three)

• New titles are added in the Library book bank. • Provision of free access to COURSERA MOOCs platform for students and faculty to upgrade their skills during the lockdown period. • Provision of precautions/measures in the campus against COVID-19 unlock was initiated. • Participation in NIRF, ARIIA, TIMES of India. • Boy's hostel built-up area of two floors extended with a capacity of 150 students. in the campus. • Wifi facility is provided in the hostels. • Number of research publications are improved in qualified journals. • Recruited Ph.D qualified faculty for strengthening the Academics and improving the Research and development activities . Many of the faculty members are upgraded their skills in new technology. National conference was organized by the institute Jan 2019 Remote center of IIRS-Isro for conducting outreach programs. To handle the pandemic situation, pending syllabus in the even semester of academic year 2019-20 is completed and remaining internal examinations are conducted in online mode. Provision of free access to courser moocs platform for students and faculty to upgrade their skills during the lockdown period is initiated and 8387 courses are completed by faculty/ students. Provision of hardware and software facilities to conduct the classwork for 2020-21 academic year through online mode was initiated. Provision of precautions measures in the campus against covid-19 unlock was initiated. Initiated extension activity by

	uality Assurance Sys					
a) Subr	ission of Data for AIS	SHE portal	Yes			
	b)Participation in NIF	RF		Yes		
	c)ISO certification			Nill		
d)NE	BA or any other qualit	y audit		Yes		
6 – Number o	f Quality Initiatives ur	ndertaken during the	e year			
Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants	
2019	Carrier guidance program	23/07/2019	23/07/2019	23/07/2019	300	
2019	Carrier guidance program	30/08/2019	30/08/2019	30/08/2019	250	
2019	training program on " Employabilit y Skills" in association with Nandi (NGO) Foundation, Mahindra Mahindra and APSSDC	01/07/2019	01/07/2019	06/07/2019	70	
2019	conducted student training program on "Role Intellectual Property Rights in Innovation Management and Academia Industry Col laboration" association with M/s Novel Patent Service Private Limited, Vizag	22/08/2019	22/08/2019	22/08/2019	150	
2019	Chairperson IQAC, addressed all the	10/07/2019	10/07/2019	10/07/2019	210	

	faculty members on Outcome Based Education (OBE) and motivated the faculty to implement OBE while teaching respective subjects				
2019	internship awareness program was conducted under Internshala internship program.	19/07/2019	19/07/2019	19/07/2019	260
2019	Seminar was conducted on `OBE" by IQAC	06/12/2019	06/12/2019	06/12/2019	204
2020	Organized a guest lecture on "Future Skills-2030: How to prepare for Tomorrows Jobs (Industry 4.0)", resource person for the above program is D r.P.Sreeniva saRao, Global Head, Technical Training, CYIENT, Hy	13/03/2020	13/03/2020	13/03/2020	150
2019	Conducted guest lecture on "Typical software opp ortunities for Mechanical Engineers"	30/12/2019	30/12/2019	30/12/2019	80

	in associa with Ge Elect Ind Indust Pvt I Banga	ation eneral cric ia crial otd, lore							
2020	IQAC success conduc online program "An In; into Re Accredi n Fram of NA	has fully cted FDP ms on sight evised tatio ework AC"	22/06/2020	22/06/2	2020	24/0	6/2020		150
			<u>Viev</u>	<u>v File</u>					
	– INSTITU		ALUES AND	BEST PRA	ACTIO	CES			
'.1 – Institutiona	al Values an	nd Social R	esponsibilitie	S					
7.1.1 – Gender E vear)	quity (Numbe	er of gender	equity promotio	n programme	es orga	anized by	the institut	tion c	luring the
Title of the programme	P	Period from	Peric	od To Number of Partici		cipan	pants		
						Female		I	Vale
Womens d Celebratio	ay 0 ns	8/03/202	0 08/0	08/03/2020		150		25	
Disha Ac	it 1	9/12/201	9 19/1	2/2019		120		30	
Stress Maagement	: 1	.0/11/201	9 10/1	1/2019		170			30
Women Men Health	tal 0	1/01/202	0 01/0	1/2020		125			30
7.1.2 – Environm	ental Conscie	ousness and	Sustainability/	Alternate Ene	rgy ini	tiatives su	ich as:		
Perc	entage of po	wer require	ment of the Univ	versity met by	the re	enewable	energy so	urces	3
	wer requi	rement m	et by renew WH: 420958	able energ Renewable	gy so ener	ources: gy sou	233570 rce: Sol	kWH lar	[ Total
55.48, Pc po	wer requi	rement k	120900						
7.1.3 – Differently	wer requi	angjan) frien	dliness						
7.1.3 – Differently	wer requi vabled (Divya facilities	angjan) frien	dliness Yes	/No		Nu	mber of be	enefi	ciaries
7.1.3 – Differently	ver requi abled (Divy: facilities p/Rails	angjan) frien	dliness Yes	/No Zes		Nu	mber of be	enefi	ciaries
55.48, Po pc 7.1.3 – Differently Item Ran Scribes fo	wer requi abled (Divy: facilities p/Rails or examin	angjan) frien	dliness Yes	/No Zes Zes		Nu	Imber of be	enefi 11 5	ciaries
55.48, Po pc 7.1.3 – Differently Item Ran Scribes fo Res	ver requi vabled (Divy: facilities p/Rails or examin t Rooms	angjan) frien	dliness Yes	/No Zes Zes Zes		Nu	Imber of be	enefi 11 5 1	ciaries
55.48, Po pc 7.1.3 - Differently Item Ram Scribes fo Res Physica	wer requi abled (Divy: facilities mp/Rails or examin st Rooms 1 facilit	angjan) frien ation ies	dliness Yes	/No Zes Zes Zes		Nu	Imber of be Ni	enefi .11 5 1	ciaries
55.48, Po pc 7.1.3 – Differently Item Ran Scribes fo Res Physica 7.1.4 – Inclusion a	wer requi abled (Divy: facilities np/Rails or examin st Rooms 1 facilit and Situated	angjan) frien ation ies ness	dliness Yes	/No Zes Zes Zes		Nu	Imber of be Ni	enefi 11 5 1	ciaries

	locational advantages and disadva ntages	engage with and contribute to local community					and staff
2019	1	1	21/06/2 019	1	Interna tional Day of Yoga	Interna tional Day of Yoga	64
2019	2	2	08/07/2 019	1	Blood Donation Program	Blood Donation Program	32
2019	3	3	20/07/2 019	1	Awareness Program on Career Guidance	Awareness Program on Career Guidance	60
2019	4	4	13/09/2 019	1	Free Eye Check- Up Camp	Free Eye Check- Up Camp	42
2019	5	5	15/09/2 019	1	Blood Grouping Test	Blood Grouping Test	45
2019	6	6	16/09/2 019	1	Awareness on Plastic Waste Pollution Control Program	Awareness on Plastic Waste Pollution Control Program	25
2019	7	7	17/09/2 019	1	Ralley on Plastic Waste Pollution in Narasa raopeta Town	Ralley on Plastic Waste Pollution in Narasa raopeta Town	85
2019	8	8	26/09/2 019	1	Fund Co llection and Donation to a Kidney Diseased student	Fund Co llection and Donation to a Kidney Diseased student	42
2019	9	9	11/12/2 019	1	Vanam - Manam Program	Vanam - Manam Program	200
2019	10	10	Nill	1	Constit utional Week	Constit utional Week	150

<u>View File</u>								
7.1.5 – Human Values and Professional Ethics								
Title	Date of publication	Follow up(max 100 words)						
Code of conduct for Students	02/01/2020	<ul> <li>Hand books on code of conduct of students are distributed to students and widely publicized and students are expected to maintain the highest standards of discipline and dignified manner of behavior inside as well as outside the College campus.</li> <li>If any student violates the rules and regulations of the College, he/she is warned and counseled if necessary.</li> </ul>						
Code of conduct for Staff	02/01/2020	• Hand books on code of conduct of staff are distributed to staff and widely publicized and staff are expected to maintain the highest standards of discipline and dignified manner of behavior inside as well as outside the College campus.						

#### 7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants	
Free Eye Check-Up Camp	13/09/2019	13/09/2019	42	
Awareness on Plastic Waste Pollution Control Program	16/09/2019	16/09/2019	25	
Vanam - Manam Program	19/09/2019	19/09/2019	42	
Road safety Helmet awareness	11/12/2019	11/12/2019	150	
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Solid Waste Management - Establishment of Compost plant Weekly one-day faculty will attend college by sharing the vehicles to reduce the pollution. 2. Plastic free campus 3. Generation of Solar Energy in campus 4. Students, staff using a) Bicycles b) Public Transport c) Pedestrian friendly roads 5. Paperless office 6. Green landscaping with trees and plants 7. Rainwater harvesting 8. College has established In-house pollution testing centre to test pollution levels of student and faculty vehicles

#### 7.2 – Best Practices

7.2.1 - Describe at least two institutional best practices

Best Practice - 1 Title of the Practice: Teaching and Learning Process Objectives of the Practice: Narasaraopeta Engineering College (NEC) desires to impart appropriate knowledge, skill and training to enable the students become qualitative practitioners of their profession. Teaching and learning process is the focal point in the whole of educational activity. Changing face of education and rapid advancement of technology on one hand and changing perceptions among the millennial students as well as induction of new generation of teachers on the other hand challenge the whole gamut of teaching learning process. The crux of this practice is to train the facilitators in better teaching learning processes for enhanced deliverance of learning. The Context: In the past few decades, there has been a paradigm shift in teaching methodologies. It has moved from teacher centric approach where the learner is a passive participant to student centric approach where a teacher is just a facilitator to student's learning. In addition, the massive advancement of science and technology coupled with the expectation from native millennial student generation, has impacted and shaken the concept of teaching. Often, those joining the teaching community recently are also of millennial generation. In this context, it is imperative that the teachers are trained appropriately to carry forward the teaching learning process in an effective and smooth way. The shift in generational outlook, that is, the young tech savvy brigade joining the ranks of teaching and older generation teachers who need to become more versed with technology, can be achieved only through timely and interventional training. The Practice: Since its inception, Narasaraopeta Engineering College (NEC) has taken measures to ensure that teachers are adequately trained in the teaching methodologies. In this regard, faculty development programmes for teacher training are continuously conducted the resource persons for these programmes from reputed Educational Institutions or the senior faculty members within the campus. Sometimes, teachers are given an opportunity to attend such programmes outside the campus. At NEC, newly recruited faculty members having less than two years teaching experience are given orientation by the senior professors. During the orientation programme, the participants are given an opportunity to have practice teaching sessions along with teaching methodologies. All new members are encouraged to observe and be a part of classroom proceedings of senior faculty classes. In 2019, the institute has organised a teacher training programme on Effective Teaching along with the National Institute of Technical Teachers Training and Research (NITTTR) Kolkata. Fifty faculty members along with newly recruited, attended the programme. The feedback on the programme suggests that the training session was productive in terms of supporting teachers understanding their perceptions of class room teaching, methods of assessment and evaluation. Similar programmes are conducted through in house Teaching Learning Centre (TLC). The institute became a consortium member of IUCEE (Indo Universal Collaboration for Engineering Education) in 2018. As a consortium member, the faculty got a chance to attend a series of webinars for self-awareness and up gradation in all disciplines. Faculty has participated in a week long faculty development programme as a part of Teaching Learning centre initiative with IUCEE collaboration. Dr. Rao Vemuri, University of California, Davis was the resource person for the FDP on "Artificial Intelligence" held from 23rd September to 27th September 2019. In this FDP, the faculty were introduced to many concepts of AI courses in UG Level. Faculty are encouraging to do MOOCs courses like SWAYAM / NPTEL. Evidences of Success: The faculty with less than two years become more confident in handling the classes. The perspective shift from a student to a faculty is visible as most often, the newly joined faculty are also millennial. They are tech savvy but their outlook towards teaching is not very informed one. The lockdown during pandemic was a game changer. The above

initiatives helped the faculty to adapt online teaching in no time during the pandemic. The faculty became versatile in implementing active teaching learning methodologies using the technology. The awareness ignited the adaptability and

explorative nature of the faculty that was evident in the successful implementation of online teaching learning. The reluctance to use technology or collaborative teaching methods among the seniors has slowly given way to a more positive acceptance. They are implementing quiz, peer teaching, group or team learning and flipped classroom methods. Blended classroom has been a boon in the post COVID situation. Classes were conducted in both online and off line format. Problems encountered: Many problems are encountered while implementing teaching learning development activities. 1.In flipped class room, students may not be given to advance preparation of the topic. They may skip the pre task assigned by the faculty thereby attending the class with zero prior knowledge

that leads ineffectual learning. 2. Prior preparation by the students may create or promote unhealthy digital divide among the students. 3. Use of technology in blended learning can cause cognitive overload on the learners. 4. Also, IT literacy among the faculty is one of major disadvantages in adapting new technology in learning. 5. The faculty may not be able to keep pace with the student's learning who has advance knowledge of the topics. 6. All students

may not have suitable access to technology or internet bandwidth. Despite adapting latest methods in teaching learning, we cannot ignore the fundamental chalk and talk method. NEC tries to maintain a fine balance between the old and new versions of teaching learning. Best Practice II Title of the Practice: Go Green Campus Goal Environmental issues bring about thoughtful questions on the roles of Institutes in society. Irrespective of whether they are contributing

to a better environment or worsening it, Institutions have to acknowledge environmental or green issues through impact research and measurement. Based on the approach NEC has significant Green Initiatives to 1. Promote sustainability

by creating awareness 2. Share knowledge expertise - Expert talks about environmental problems and possible solutions Deploy eco-friendly technologies for greening and cleaning our campuses The context The main contexts are (i)

Water Management, (ii) Waste management, (iii) Energy (conservation and generation) and (iv) Landscaping and Trees. (v) Beyond the Campus Environmental promotional activities. (vi) Green, Environment and Energy Audits. The Practice Energy conservation 1. The Internal stakeholders take all measures to save the power. 2. More than 60 lighting requirements are met through LED sources and

efforts are under progress to improve it further Use of renewable energy Interactive solar power generating system of 200 KWp is provided on the roof top of the academic buildings. With the installation of this system 45 to 50 of the total electricity requirement is met. Water harvesting: Water conservation is the practice of using water efficiently to reduce unnecessary water usage. According to reports, water conservation is important because fresh clean water is a limited resource, as well as a costly one. Conservation of this natural

resource is critical for the environment. The goals of water conservation efforts include: Ensuring availability of water for future generations where the withdrawal of fresh water from an ecosystem does not exceed its natural replacement rate. Energy conservation as water pumping, delivery and wastewater

treatment facilities consume a significant amount of energy. According to recent researches 15 of total electricity consumption is devoted to water management. Rainwater Harvesting Water is the most important yet neglected resource. The reason is being very low cost. But over period of years, water is gaining its importance. Entire country is facing a tremendous stress due to water scarcity. Irregular rainfall, depleting ground water table, inefficient usage and leakages etc are all forcing people to adopt water management activities. NEC has always paid special care and attention towards water consumption in their buildings. To tackle the issue at source, rain water harvesting systems have implemented across the campus to conserve, capture and aid effective aquifer recharge. To ensure effective capture and aquifer

recharge, the rainwater harvesting pit in the campus at proper place. The water collected is used for plantation purposes at a later stage. Efforts for carbon neutrality By conserving and reusing energy the need for excessive use off oil fuels can greatly reduce, thus reducing carbon emissions. Installing solar panels helps in reducing carbon emissions. The installation of 200 KWp solar power system has saved the amount of carbon dioxide released into the air. Thus the emission of carbon dioxide is well controlled with these efforts in the institute to achieve carbon neutrality. Plantation Every year students along with the garden staff plant trees. Plantation Drives are organized by NSS. Due to this program over the years the campus has become lush and green. E-waste management E-waste generated is first reused in the campus itself and replaced with buy back policy. Apart from the above following activities are promoted to ensure green campus: • Sensor based Environmental monitoring system prepared by students: • Sensor based Automatic Street light • Beyond the campus environmental promotional activities(NSS) • Green, Environment and Energy Audits • Wheeling to Grid

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://www.nrtec.in/wp-content/uploads/2021/08/4.Best-Practices.pdf

#### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

INSTITUTIONAL DISTINCTIVENESS: Out of the thrust areas mentioned above the Institute has a distinction by establishing several Centres of Excellence (CoE) and Industry Collaborative Laboratories. The institute has established 4CoEs and the details are described below. CENTERS OF EXCELLENCE (CoE): Andhra Pradesh State Skill Development Corporation (APSSDC), Govt. of A.P. sanctioned a "CM's Skill Excellence Centre "to bridge the skill gap between the colleges and the industry requirement. This CoE is equipping students with the required competencies to suit industry needs expectations. 37 laptops were provided under this scheme. Students were trained in courses like Python, IOT, Revit structures, Auto CAD, PCB PLC, Embedded Systems etc.. APSSDC in collaboration with Dassault systems, setup a 3D-EXPERIENCE centre to make students industry ready in the field of Automotive, Aerospace Defence and shipbuilding. The center enhances the employability skills of engineering students by making them industry ready through skill enhancement and certification on the 3D-EXPERIENCE platform consisting of 3 modules-Catia, Simulia Delimia which are useful for 3D design, analysis simulation of objects. An Indo-European skilling Centre for Mechatronics Industrial Robotics lab was established on 2nd November, 2019 by APSSDC in collaboration with GC German Centre for engineering Management studies, Germany European Centre for Mechatronics APS GmBH Aachen to establish a framework for initiating innovation models. It consists of 3 modules- ARC 1.0,2.0 3.0. ECE, EEEME students of 85 members are undergone training on ARC Modules. Faculty members are sent to RWTH University, Aachen, Germany for training on ARC Modules. Microsoft Innovation Centre: The College has MOU with Microsoft Pvt Ltd for established Microsoft Innovation Centre. It has equipped with the Promotional material, Technical content and educational content curriculum. Microsoft provide the royalty free licence software like Microsoft Office 365, Microsoft Visual Studio, SQL Server, Windows server, etc. and to use the Microsoft trade mark solely as part of the Microsoft innovation centre organised Technical Training certification Programmes. Faculty are trained on Microsoft Azure Cloud Module. ICTACADEMY: ICT Academy is an initiative of the Government of India in collaboration with the state Governments and Industries. ICT Academy is a not-for-profit society, the first of its kind pioneer venture under the Public-Private-Partnership (PPP) model that endeavours to train the

higher education teachers and students thereby exercises on developing the next generation teachers and industry ready students. To bridge the Industry-Academia skill gap, and to develop the next generation teachers students. ICT Academy providing consultancy and training through industry specific research thereby creating a new generation of talent pool. IUCEE (Indo Universal Collaboration in Engineering Education): NEC has a consortium member of IUCEE in 2018. As a consortium member Faculty got a chance to attend a series of webinars to upgrade Technology and Teaching Learning Process Faculty Outcomes Total IPRs are 11 out of which 10 published and 2 are granted 6 Ph.Ds are awarded under our faculty Research papers published in the Journals and conferences are 85. 248 Faculty are completed MOOCs

Provide the weblink of the institution

https://www.nrtec.in/wp-content/uploads/2021/08/3.Institutional-Distinctiveness.pdf

#### 8. Future Plans of Actions for Next Academic Year

• Planning to Improve Funded R and D projects and consultancy works from various industries/agencies/societies. • Planning to increase more number of MOUs with industries. • Increasing the number of journal and conference publications. • Creating awareness on intellectual property rights among faculty and motivating them to apply for patents. • Preparing documentation for NBA TIER I as per NBA guidelines. • Planning to participate in national ranking system conducted by Government and other reputed agencies. • Planning to apply for reorganization of JNTUK kakinada research center for MECH, ECE and CSE branches. • Planning to conduct awareness programs like workshops seminars on Innovation, Start-up and entrepreneurship through Intuition Innovation Council (IIC). • Planning to strengthen research and development by subscribing various International Journals. • Planning to organize more certificate courses, workshops, and short term courses. • Planning to increase the number participation in online certification courses such as SWAYAM NPTEL, MOOC'S Etc. • Organizing Campus Recruitment Training programs to the students to enhance their employability skills. • Introduction to offer Minor Degree along with major B.Tech Degree • Improving Industry - Institute interaction • Encouraging the departments to establish incubation centers • Planning to complete the construction of new floor in Block 3 and two floors of Boys hostel.