

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY



Internal Quality Assurance Cell (IQAC) and Submission of Annual Quality Assurance Report (AQAR) 2014-15



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An autonomous Institute of University Grants Commission

P.O. Box NO. 1075, Opp. NLSIU, Nagarbhavi, Bangalore – 560072 India

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)*

Part – A

I. Details of the Institution

1.1 Name of the Institution

VNR VIGNANA JYOTHI INSTITUTE OF
ENGINEERING & TECHNOLOGY

1.2 Address Line 1

Vignana Jyothi Nagar, Bachupally

Address Line 2

Nizampet (S.O.)

City/Town

Hyderabad

State

Telangana

Pin Code

500 090

Institution e-mail address

postbox@vnrvjiet.in
principal@vnrvjiet.ac.in

Contact Nos.

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Name of the Head of the Institution:

Dr. C. Kiranmai

Tel. No. with STD Code:

040 - 23041516

Mobile:

9391008138

Name of the IQAC Co-ordinator:

Dr. Poonam Upadhyay

Mobile:

+91 9885280251

IQAC e-mail address:

iqac@vnrvjiet.in

1.3 NAAC Track ID (For ex. MHCOGN 18879)

14570

1.4 NAAC Executive Committee No. & Date:

(For Example EC/32/A&A/143 dated 3-5-2004.

This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

EC/62/A&A/094 dated Jan. 5th 2013

1.5 Website address:

www.vnrvjiet.ac.in

Web-link of the AQAR:

<http://www.vnrvjiet.ac.in/Ref/AQAR2014-15.pdf>

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.21	2013	5 Years
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

18/02/2013

1.8 AQAR for the year (for example 2010-11)

2014-15

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*for example AQAR 2010-11 submitted to NAAC on 12-10-2011*)

- i. AQAR AQAR 2012-13 submitted to NAAC on 23-12-2013 (DD/MM/YYYY)
- ii. AQAR AQAR 2013-14 Submitter to NAAC on 18-09-2014 (DD/MM/YYYY)
- iii. AQAR _____ (DD/MM/YYYY)
- iv. AQAR _____ (DD/MM/YYYY)

1.10 Institutional Status

University State ☐ Central ☐ Deemed ☐ Private ☒

Affiliated College Yes ☒ No ☐

Constituent College Yes ☐ No ☒

Autonomous college of UGC Yes ☒ No ☐

Regulatory Agency approved Institution Yes ☒ No ☐

(eg. AICTE, BCI, MCI, PCI, NCI) - **AICTE**

Type of Institution Co-education ☒ Men ☐ Women ☐

Urban ☒ Rural ☐ Tribal ☐

Financial Status Grant-in-aid ☐ UGC 2(f) ☒ UGC 12B ☒

Grant-in-aid + Self Financing ☐ Totally Self-financing ☒

1.11 Type of Faculty/Programme

Arts ☐ Science ☐ Commerce ☐ Law ☐ PEI (Phys Edu) ☐

TEI (Edu) ☐ Engineering ☒ Health Science ☐ Management ☐

Others (Specify)

B.Tech:

1. Civil Engineering
2. Electrical and Electronics Engineering
3. Mechanical Engineering
4. Electrical and Communication Engineering
5. Information Technology
6. Electrical and Instrumentation Engineering
7. Computer Science and Engineering
8. Automobile Engineering

M. Tech :

1. Geo Technical Engineering
2. Highway Engineering
3. Structural Engineering
4. Power Electronics
5. Power Systems
6. Automation
7. Advanced Manufacturing Systems
8. CAD/ CAM
9. VLSI System Design
10. Embedded Systems
11. Computer Network Information Systems
12. Instrumentation
13. Software Engineering
14. Computer Science and Engineering

1.12 Name of the Affiliating University (*for the Colleges*)Jawaharlal Nehru Technological
University Hyderabad (JNTUH)1.13 Special status conferred by Central/ State Government -- **UGC**

Autonomy by State/Central Govt. / University

Central Government

University with Potential for Excellence

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

✓

UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

1. UGC Minor Research Project
2. TEQIP – MHRD Project
3. AICTE – Research Promotional Scheme

2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="16"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="9"/>
2.3 No. of students	<input type="text" value="3"/>
2.4 No. of Management representatives	<input type="text" value="3"/>
2.5 No. of Alumni	<input type="text" value="2"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="1"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="2"/>
2.8 No. of other External Experts	<input type="text" value="1"/>
2.9 Total No. of members	<input type="text" value="37"/>
2.10 No. of IQAC meetings held	<input type="text" value="2"/>

2.11 No. of meetings with various stakeholders: No. Faculty
Non-Teaching Staff Students Alumni Others

2.12 Has IQAC received any funding from UGC during the year? Yes No ☒

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

1. Awareness of Quality Aspects in the Higher Institution.
2. Quality Teaching & Learning Process
3. POGIL, Learning by Doing Methods

2.14 Significant Activities and contributions made by IQAC

- Quality functional chart, based on NAAC quality criteria was prepared and implemented.
- Seminars for Faculty and Non-Teaching Staff were conducted to create awareness about the quality aspects.
- Quality Indexes for Departments and institute are generated and implemented
- Quality Index for attendance of the Students, faculty and Result.
- Quality Index for Placements, Faculty Quality and Lab Management is prepared.
- Result Analysis is done and improvement measures are suggested.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
<ul style="list-style-type: none"> • Preparation of Quality Indices for Six Factors of the Institute and Departments 1. Research and Quality 2. Personnel Reputation 3. High Quality of Teaching 4. Placements 5. Innovation and Patents 6. Vibrant Mix and Cultural Diversity 	<ul style="list-style-type: none"> • The quality indices are periodically calculated & monitored. • Considerable amount of improvement was noticed in the publications, Quality of teaching & Placements. • The index made a great impact in improving the attendance.

2.15 Whether the AQAR was placed in statutory body

Yes

☒

No

☐

Management

☐

Syndicate

☒

Any other body

Provide the details of the action taken

IQAC is producing Daily Reports on Quality parameters and action is being taken based on the deficiency.
The performance of the departments based on the quality parameters enabled to measure the rating of the department. This enabled mentoring the department based on their strengths & weakness.

Part – B

Criterion – I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	Research Centre for EEE, ECE, CE		All Programs are Self-Financed	19*
PG	14	2		
UG	8	0		
PG Diploma				
Advanced Diploma				
Diploma	4	0		
Certificate				
Others				
Total	26	02		
Interdisciplinary				
Innovative				

* Certificate courses which are career oriented being offered in the Institute.

SNO	Department	Name of the Course
1	CE	Advanced Training in Surveying Practices using Total Station
2		Primavera
3	EEE	Oracle: Module-1
4		Solar Photo Voltaic Technologies and Embedded system Applications
5	ME	CATIA V5 Prima
6		CNC Machine Programming (for R12)
7		Automation
8		CNC Machine Programming (for R13)
9	ECE	Design and Development in Lab View
10		ASIC Design flow using Industry standard EDA tools (for M.Tech)
11	CSE	IBM CE – Enterprise Application Development (J2EE) using RAD
12		IBM CE –Enterprise Application Development in cloud environment (J2EE) using IBM Smart Cloud
13		IBM CE- Essentials of Big Data with Hadoop using IBM InfoSphere BigInsights
14	EIE	PLC and SCADA Programming
15		Lab View
16	IT	Advanced Java Programming
17	AME	Cre-O(Pro-E)
18		ANSYS
19	H&S	Business English

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options – **Elective Option**
(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	22 (8 UG & 14 PG)
Trimester	---
Annual	---

1.3 Feedback from stakeholders* Alumni ☒ Parents ☒ Employers ☐ Students ☒
(On all aspects)

Mode of feedback : Online ☒ Manual ☒ Co-operating schools (for PEI) ☐

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

- Yes.
- The Curriculum changes are based on participation & suggestions from Stakeholders.
- These changes are discussed by the faculty concerned at the Department Academic Committee headed by respective HOD.
- The accepted changes are presented to Board of Studies. The constitution BOS includes members from the faculty, two academic persons from affiliated universities, two members from industry, one member from alumni. After BOS approve the changes they are presented to institute academia council and after this the changes are bought into force.
- New elective subjects are introduced in consultation with industry professionals.
- Certificate courses are introduced to support the curriculum.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

- Yes.**
- Centre of Excellence for “Disaster Mitigation” in the Department of **Civil Engineering**
 - Centre of Excellence Renewable Energy Systems in the Department of **Electrical and Electronics Engineering**
 - Centre of Excellence for Data Sciences in the Department of **Computer Science Engineering**.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Prof.	Assoc. Prof.	Professors	Others
290	212	51	27	-

2.2 No. of permanent faculty with Ph.D.

46

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
67	-	08	-	07	-	-	-	82	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

17

11

3

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	38	28	37
Presented papers	29	18	6
Resource Persons	1	1	1

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- EPR with VJ Spectral Pyramid (TM)
- VNR Lab Protocol (TM)
- Career Vision Approach (TM)
- POGIL
- Show & Tell
- Learn by Doing
- Lesson Plan
- Student Faculty Research interaction
- Art of Teaching
- Chalk & Talk Role play
- Quizzing, Video film, visuals
- Mind maps problem solving game
- Group projects/presentation,
- MOOCS
- WIT& WILL

2.7	Total No. of actual teaching days during this academic year	180		
2.8	Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)		Bar Coding	
2.9	No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop	23	76	23
2.10	Average percentage of attendance of students	80 %		

2.11 Course/Programme wise distribution of pass percentage:

B.Tech. - I Semester:

Title of the Programme	Year of I Semester	Total no. of students appeared	Division				
			Distinction %	I %	II %	III %	Pass %
CE	I	120	40.54	33.78	22.97	2.70	61.67
	II	141	41.38	46.55	8.62	3.45	82.27
	III	145	28.42	66.32	4.21	1.05	65.52
	IV	135	13.49	65.87	20.63	0	93.33
EEE	I	120	64.65	32.32	3.03	0	82.50
	II	143	53.13	37.50	8.33	1.04	67.13
	III	71	55.93	40.68	3.39	0	83.10
	IV	70	19.67	39.34	31.15	9.84	87.14
ME	I	120	52.56	35.90	11.54	0	65.00
	II	144	51.38	43.12	5.5	0	75.69
	III	143	81.45	16.13	2.42	0	86.71
	IV	137	56.56	42.62	0.82	0	89.05
ECE	I	238	81.41	18.59	0	0	83.61
	II	212	80.25	16.67	3.09	0	76.42
	III	144	83.82	13.24	2.94	0	94.44
	IV	139	86.78	11.57	1.65	0	87.05
IT	I	60	56.00	40.00	4.00	0	83.33
	II	60	82.00	16.00	2.00	0	83.33
	III	63	66.67	23.53	9.80	0	80.95
	IV	64	32.65	32.65	32.65	2.04	76.56
EIE	I	120	60.27	38.36	1.37	0	60.83
	II	135	73.56	24.14	2.30	0	64.44
	III	112	62.82	26.92	10.26	0	69.64
	IV	141	36.09	51.13	9.77	3.01	94.33
CSE	I	241	68.95	28.42	2.63	0	78.84
	II	211	85.71	8.47	5.82	0	89.57
	III	145	71.43	20.3	8.27	0	91.72
	IV	144	63.71	26.61	9.68	0	86.11
AME	I	55	33.33	60.00	6.67	0	27.27
	II	69	50.00	35.71	14.29	0	60.87
	III	66	54.17	25.00	20.83	0	36.36
	IV	58	30.43	50.00	19.57	0	79.31

B.Tech. - II Semester:

Title of the Programme	Year of II Semester	Total no. of students appeared	Division				
			Distinction %	I %	II %	III %	Pass %
CE	I	119	48.31	37.08	14.61	0	74.79
	II	141	52.29	34.86	12.84	0	77.30
	III	145	29.09	40.00	30.91	0	75.86
	IV	135	16.28	64.34	19.38	0	95.56
EEE	I	119	44.33	44.33	11.34	0	81.51
	II	143	65.12	32.56	2.33	0	90.21
	III	71	45.59	51.47	2.94	0	95.77
	IV	70	73.02	25.40	1.59	0	90.00
ME	I	120	82.47	17.53	0	0	80.83
	II	143	56.49	32.82	8.40	2.29	91.61
	III	144	85.95	13.22	0.83	0	84.03
	IV	137	5.97	82.09	11.94	0	97.81
ECE	I	240	74.62	20.81	4.57	0	82.08
	II	208	82.23	15.74	2.03	0	94.71
	III	145	66.42	22.63	10.95	0	94.48
	IV	140	97.06	2.94	0	0	97.14
IT	I	60	68.18	22.73	9.09	0	73.33
	II	61	67.92	26.42	5.66	0	86.89
	III	63	75.00	19.23	5.77	0	82.54
	IV	60	83.93	16.07	0	0	93.33
EIE	I	121	50.77	33.85	15.38	0	53.72
	II	137	63.73	30.39	5.88	0	74.45
	III	113	62.20	31.71	6.10	0	72.57
	IV	141	81.82	18.18	0	0	93.62
CSE	I	238	78.49	20.43	0.54	0.54	78.15
	II	211	86.81	9.34	3.30	0.55	86.26
	III	143	91.6	7.63	0.76	0	91.61
	IV	144	66.43	30.00	3.57	0	97.22
AME	I	54	34.62	53.85	11.54	0	48.15
	II	67	44.44	36.11	19.44	0	53.73
	III	70	58.70	39.13	2.17	0	65.71
	IV	58	66.00	32.00	2.00	0	86.21

M.Tech. - I Semester:

Title of the Programme	Year of I Semester	Total no. of students appeared	Division				
			Distinction %	I %	II %	III %	Pass %
Structural Engg.	I	17	66.67	26.67	0	6.67	88.24
Highway Engg.	I	10	25.00	25.00	50.00	0	40.00
Geotech. Engg.	I	13	45.45	27.27	27.27	0	84.62
Power Electronics	I	18	40.00	60.00	0	0	55.56
Power Systems	I	10	33.33	66.67	0	0	60.00
Adv. Manufacturing Systems	I	10	44.44	55.56	0	0	90.00
Automation	I	8	80.00	20.00	0	0	62.50
CAD/CAM	I	9	75.00	25.00	0	0	44.44
Embedded Sys	I	16	75.00	25.00	0	0	50.00
VLSI Sys Design	I	17	71.43	28.57	0	0	82.35
CNIS	I	14	85.71	14.29	0	0	100.00
Instrumentation	I	10	100.00	0.00	0	0	80.00
Software Engg	I	13	55.56	44.44	0	0	69.23
Computer Science & Engg.	I	14	63.64	36.36	0	0	78.57

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

IQAC has prepared a roadmap of quality Teaching and Learning. IQAC continually monitors and evaluates Teaching –Learning by:-

- Evaluating and analysing results and suggesting measures for improvement.
- Analysing the feedback given by students and other stake holders.
- Monitoring the students' and staff attendance on daily / monthly basis.
- Conducting quality related seminars.
- Generating quality indices on diverse teaching-learning parameters in order to specify lag and lead indicators that help further improvement and corrections.
- Conducting regular internal meetings with the Management, Principal, Heads of the Departments for continuous inputs.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	7
UGC – Faculty Improvement Programme	11
HRD programmes	6
Orientation programmes	13
Faculty exchange programme	0
Staff training conducted by the university	4
Staff training conducted by other institutions	9
Summer / Winter schools, Workshops, etc.	118
Others	18

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff & Supporting Staff	89		2	
Technical Staff	54	5	3	3

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- Constant upgradation of Library resources.
- Encouragement to Faculty members to publish research papers in journals and attend conferences etc.
- The research aptitude is inculcated among staff and students through various academic and funded project works.
- Eminent scientists/academicians/technocrats are invited to motivate faculty and students.
- Workshop / seminars / conferences are organised to promote research.
- Financial aids, incentives are given as encouragement for research.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	01	14	03	02
Outlay in Rs. Lakhs	17.00	134.6	26.68	155.00

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	---	16	---	
Outlay in Rs. Lakhs	---	52.28	---	

3.4 Details on research publications

	International	National	Others
Peer Review Journals	67	6	-
Non-Peer Review Journals	17	-	-
e-Journals	2	-	-
Conference proceedings	41	32	-

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	2/ 3 Years	DRDO / AICTE/ITRA	107.8	68.25
Minor Projects	2 Years	UGC	51.37	40.05
Interdisciplinary Projects				
Industry sponsored	2/3 Years	Ananth Technologies/ X_Design/ Mira Consulting Inc./ Drive Lozics	29.04	20.29
Projects sponsored by the University/ College	-	-	-	-
Students research projects (other than compulsory by the University)	-	-	-	-
Any other(Specify)	-	-	-	-
Total			188.21	128.59

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme
INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	-	-	-	-	-
Sponsoring agencies	-	-	-	-	-

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations : International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From funding agency From Management of University/College

Total

3.16 No. of patents received this Year

Type of Patent		Number
National	Applied	3
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
01	01					

3.18 No. of faculty from the Institution who are Ph. D. Guides and students registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level
National level International level

3.22 No. of students participated in NCC events:

University level State level
National level International level

3.23 No. of Awards won in NSS:

University level State level
National level International level

3.24 No. of Awards won in NCC:

University level State level
National level International level

3.25 No. of Extension activities organized

University forum College forum
NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

1. CHEYUTHA (23rd August and 20th September, 2014)

Main objective is to bring awareness among Government school students of Mallampet and Bachupally about the importance of practical education

2. DISTRIBUTION OF CLAY GANESH IDOLS (28th August, 2014)

The main objective is to create awareness among the students of the ill effects of water pollution caused by Plaster of Paris Ganesh idols.

NSS unit VNR VJIET have distributed around 200 clay Ganesh idols to the students at a nominal cost of Rs.20/- in collaboration with HMDA.

3. BLOOD DONATION CAMP (22nd October, 2014)

It was organized in association with NTR Trust to help the thalassemia and sickle cell patients. Around 248 blood sample units were collected.

4. Salute (January 25th, 2015)

NSS has taken an initiative in the college where a common platform was created for all the clubs and student chapters to project their part in nation's development and to showcase the on-going issues in the nation which caught their attention

5. Appreciation drive(January26th, 2015)

Objective is to appreciate citizens for being responsible & people rendering selfless service.

6. Saaradhi –Engineers Leading the Society (2nd-4th march, 2015)

The event was organized by NSS unit VNR VJIET in collaboration with VNRSF and Motivational club of our collage in order to provide engineering solutions to the most common problems in our society using our engineering knowledge.

7. Volunteers as Scribes (11-12 March, 2015)

55 students from II& III B.Tech NSS Volunteers of VNR VJIET wrote intermediate examinations on behalf of blind students as scribes. The subjects were I year and II year Intermediate, Sanskrit at Vikas Junior College, Shamshabad.

8. Swatch Bharath abhiyan (April, 2015)

Inspired by our Prime Minister Sri. Narendra Modi's Swatch Bharath campaign NSS unit VNR VJIET has also organized various events in keep our surroundings clean in the month of April, 2015.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	21.13 Acres	---	Donation from Patrons of the Society	21.13 Acres
Class rooms	111 (72 Classes+ 39 Tutorial Rooms)	---	<ul style="list-style-type: none"> • Donation from Patrons of the Society • Tuition Fee 	111
Laboratories	117	5	•	122
Seminar Halls	10	---	•	10
No. of important equipments purchased (≥ 1 -0 lakh) during the current year.	11	05	Institute	15
Value of the equipment purchased during the year (Rs. in Lakhs)	140.88239	52.74	• Institute	193.62
Others				

4.2 Computerization of administration and library

- Campus Automation Management System
- Complete WIFI in Campus
- Website for public access
- Electronic resource management
- E journals
- Content management
- Computers and printers

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	69,669	1,56,04,133	1799	9,50,000	71468	16554133
Reference Books	11858		991		12849	
e-Books	1520					Downloads
Journals	231	6,44,246	26	105243	257	7,49,489
e-Journals	5 Packages	13,71,930	3 New Packages + Renewal of 5 Packages	2,93,736 + 78795	8	17,44,461
Digital Database						
CD & Video	2372		34		2406	
Others (specify)						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1400	20	100 MBPS	1 (Browsing Facility in all Computer Labs)	1	3	9	1 (Library)
Added	0	0	---	---	---	---	---	---
Total	1400	20	100 MBPS	1	1	3	9	1

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- 1400 Computers
- Wi-Fi Campus with 100mbps
- Guest Lectures
- Faculty Development Programs
- Webinars
- Workshops both for faculty & Students
- Industry interaction through visits/ workshops/ seminars.
- N/W forensics workshop & Cyber forensics workshop

4.6 Amount spent on maintenance in lakhs :

i) ICT	88.66
ii) Campus Infrastructure and facilities	267.18
iii) Equipments	Rs. 97.33
iv) Others	Rs. 26.16
Total :	Rs. 479.33

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Regular update in College web-site for circulating necessary information.
- Information sent from library about the new inclusion of new addition of books, journals and periodicals
- The Placement cell Career Counselling and Guidance
- Career Vision Promotion Centre.
- Attendance monitoring and corrective suggestions
- Relationship management Cell.
- Regular interaction with students in meetings and classrooms.
- Corrective measures based on students' feedback.

5.2 Efforts made by the institution for tracking the progression

- Student progression is recorded in their MTP Book
- Result analysis and improvement is tracked; remedial classes are arranged accordingly
- Review of Seminars/Presentations of Projects at 'Show & Tell' Platform
- Daily Attendance tracking through Campus Automation System and alerting the students, parents through SMS.
- Apart from MID Exams, Assignments and End exams, continuous in-house assessment through tests, assignments, Group Discussions, Presentations etc and continuous feedback.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
3982	384	0	0

(b) No. of students outside the state

(c) No. of international students

Men	No	%	Women	No	%
	2804	64.22		1562	35.78

2013-14						2014-15					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1815	460	175	1512	5	3967	2088	501	198	1570	9	4366

Demand ratio 1:4

Dropout % : 0

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

The Advance English Communication Skills Lab at 3rd year and the Finishing School prepare / train the students for competitive exams along with their support to the placement cell.

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET SET/SLET GATE CAT IAS/IPS etc State PSC UPSC Others

5.6 Details of student counselling and career guidance

- Mentors are available
- Mentor to student ratio 1:20
- Each mentor take care of the academics & welfare of the student assigned.
- Parents of these students are updated about the performance by their respective mentors by meetings and communicated through SMS and Mails.
- Mentoring weekly
- Certificate courses are conducted for various career advancement.

No. of students benefitted

1194

5.7 Details of campus placement (data from placement has to be verified).

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
68	612	495	---

5.8 Details of gender sensitization programmes

- Gender sensitization is taken into account in right from admission to equity action plan so as to ensure a balanced ratio between male-female.
- Institutional Women Cell is instrumental in dealing with issues if any
- The equity factor is evident at objective of the institution in treating everyone equally

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level

507

National level

173

International level

No. of students participated in cultural events

State/ University level

156

National level

18

International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/University level

167

National level

167

International level

Cultural: State/University level

40

National level

International level

5.10 Scholarships and Financial Support

	Number of students	Amount (Rs.)
Financial support from institution	33	45,40,050
Financial support from government	(874+1688) 2562	(1,30,22,600+10,87,01,000) 12,17,23,600
Financial support from other sources		
Number of students who received International/ National recognitions		

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed:

1. To improve the drinking water facilities
2. Not to display the marks in the notice board

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

VISION

To be a World Class University providing value-based education, conducting interdisciplinary research in cutting edge technologies leading to sustainable socio-economic development of the nation.

MISSION

- To produce technically competent and socially responsible engineers, managers and entrepreneurs, who will be future ready.
- To involve students and faculty in innovative research projects linked with industry, academic and research institutions in India and abroad.
- To use modern pedagogy for improving the teaching-learning process

6.2 Does the Institution has a management Information System

Campus Automation Management system (CAMS) is in place. The following modules are used and all the activities are automated through the CAMS software

1. Academics
2. Examinations
3. Finance & Accounts
4. Human Resources
5. Purchase & Stores
6. Web Portal & Alumni
7. Administration
8. E- Learning
9. Training & Placement

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

Every Department has BOS that suggests changes for improvement and up gradation of the curriculum after discussions. The suggestions are implemented after it is ratified by the Academic Council.

After the Autonomy status of the institute, The syllabi were revised twice , with the objective of –

1. Making the curricula at par with the industry requirement
2. Making it sustainable in the international scenario.

It is mandatory to map every course objective with the course outcome. A course end survey is performed at the end of every course and necessary measures are taken. The results of mid exams are mapped with Course Outcomes and the achievement levels are indexed.

6.3.2 Teaching and Learning

Active Learning methods are implemented to bring innovation within classrooms. Continuous seminars/ lectures / workshops are arranged for the faculty to enable them to create a learner centric environment.

The new approaches include:-

- POGIL
- Mind Map / Concept Map
- Learning by Doing (LBD)
- Videos / Visuals
- Group Discussion
- Students' Presentations
- Flipped Classroom
- Projects by Students
- Role Play
- Inquiry based learning

Extensive efforts towards Lab Management in order to bring in quality improvement.

6.3.3 Examination and Evaluation

Reforms in examination & Evaluation

- Assignment Tests are introduced
- Question paper pattern is changed in order to test the students in their overall understanding of the subject.
- Continuous assessment is done through tests, Assignments, Mini Projects, Project Demonstration.
- Objective questions for 1, 2 and 3 marks are introduced both in Mid and Final examinations.

6.3.4 Research and Development

Research and Development is continually promoted through –

- Research & Consultancy Cell
- Encouraging the faculty through lectures / seminars / workshops
- Creation of 'Show and Tell'
- Faculty members are encouraged and supported to publish papers and present papers in conferences through reimbursement, funding and awards
- Incentives are given for good publications and project proposals.
- 'My Big Idea' competition is conducted every month. Best idea is given cash prizes.

6.3.5 Library, ICT and physical infrastructure / instrumentation

- increase in number of computers in the library
- Affordance of digital information
- Constant up gradation of number of books and journals.
- Availability of e- database
- E-learning sources
- ICT and Smart Classroom
- Institute Automation – CAMS
- New computers in Multi-Media Lab

6.3.6 Human Resource Management

- Payroll is as per norms
- Time and Attendance are monitored on daily basis
- Performance record is maintained
- Performance appraisal is conducted
- Faculty and Staff recruitment are always based on merit.
- Seminar / training are conducted to train the newly recruited faculty
- Micro – teaching is done for the new comers
- Several in – house workshops are held to train the faculty and staff to enable them to update their knowledge.
- IQAC creates awareness among faculty regarding quality
- Grievance cell is present to address several issues that both faculty, staff or students may face.

6.3.7 Faculty and Staff recruitment

- Faculty and staff are recruited as per UGC guidelines, chiefly based on merit
- Faculty from different universities and also from various National and international institutions are recruited to improve quality of education
- Faculty are recruited through interviews by properly constituted selection Committee.
- Diversity is maintained while recruiting Faculty and Staff.
- Faculty recruitment is as per the accepted guidelines of the student – teacher ratio
- Ratification of Faculty by University Selection Committee

6.3.8 Industry Interaction / Collaboration

The following approaches of the Institute involves uninterrupted Industry Interaction –

- 'Shadow Engineering'
- 'Engineer in Mirror'
- 'Career Vision'
- Projects
- Guest Lectures
- Placement Training
- IQAC Committee Members

6.3.9 Admission of Students

Students are admitted on the basis of merit through state wide entrance examination EAMCET conducted by State Government.

6.4 Welfare schemes for

Teaching	Yes
Non teaching	Yes
Students	Yes

- Teaching and non teaching – career advancement scheme, study leaves, medical leave, maternity leave, ON-Duty leave, awards, incentives, conference registration and travel support
- Students – fee reimbursement, scholarships, awards, trophies, gold medals, cash prizes.

6.5 Total corpus fund generated

Rs. 25,32,98,480 /-

6.6 Whether annual financial audit has been done

Yes



No

☐

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic			Yes	Academic Audit Cell
Administrative				

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes

Yes

✓

No

For PG Programmes

Yes

✓

No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

- Bar coding is used in the answer scripts.
- Recounting & Revaluation facility is provided to the student.
- CGPA system is used for the award of division.
- Supplementary exams are conducted within Two weeks of result announcement.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

- To promote the academic freedom in autonomous college by encouraging lab linked theory courses in the curriculum.
- To provide more options for elective courses
- To provide options to take value added courses for better employability.
- To bring in a change by introducing Choice based Curriculum

6.11 Activities and support from the Alumni Association

- Alumni association is sponsoring grants for technical and non-technical events.
- Support the placement cell with various training and industry inputs.
- An online portal of the alumni is created who collaborates with the institution for various activities.
- Guest- lectures for students by Alumni as part of career vision approach.
- Alumni are frequently involved in mentoring the students, conducting mock interviews, providing industrial and professional tips etc.

6.12 Activities and support from the Parent – Teacher Association

- Parents are regularly invited to discuss the need / problem / progress of their wards
- Relationship Management Cell is created chiefly to strengthen the parent teacher relation.

6.13 Development programmes for support staff

- 1 Training / workshop/seminars / FDP are conducted
- 2 Academic / study leaves are granted to encourage higher education
- 3 Financial support is given for acquiring higher qualification

6.14 Initiatives taken by the institution to make the campus eco-friendly

- Plantation programmes are organised
- Use of sprinklers to water the plants

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Best Practices

- 1 MTP Programmes For First-Rate Placements
- 2 Education Process Re-Engineering with VJ Spectral Pyramid (TM)
- 3 Shadow Engineering
- 4 Institute Calendar
- 5 VNR Lab Protocol(TM)
- 6 Career Vision Approach(TM)
- 7 Engineer in Mirror
- 8 Show and Tell
- 9 Teaching through Learning by Doing methods

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

- IQAC has developed quality indices to monitor and improve attendance, results, placement, classroom and lab quality etc.
- The Curricula / Syllabi of courses are oriented to ensure outcome.
- Extensive training programs for Faculty members for enhancing Pedagogical approaches are conducted
- Departments have imbibed quality research culture
- Active learning methods are implemented.
- The curricula is revised and improved towards a learner centric approach.
- Faculty are encouraged to submit project proposals

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

- 1) Career Vision Approach
- 2) Show & Tell

****Provide the details in annexure (annexure need to be numbered as i, ii,iii)***

Annexure i and ii is enclosed

7.4 Contribution to environmental awareness / protection

VNRVJIET seeks to provide an education combining with social cultural and environmental awareness with the understanding that promotes wisdom, spiritual growth and contribution to the common good.

VNRVJIET demonstrate its strong commitment to environmental responsibility through these commitments:

- ✓ Strive within the limits of practical considerations to conserve energy and resources, reduce waste, purchase environmentally friendly products, and minimize adverse impact on the surrounding environment.
- ✓ Recognize and promote efforts to increase a deep, aesthetic, spiritually based awareness of our connection to the environment among the students of this institute.
- ✓ Every year plantation program is conducted in the campus.

7.5 Whether environmental audit was conducted?

Yes

☐

No

☒

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

SWOT Analysis is being done.

Strength –

- Excellent student-faculty ratio & Average experience of faculty is 8 – 9 years.
- Masters and PhD degree holders (>90%).
- Well-equipped Library & Laboratory.
- Innovations in Teaching – Learning
- Excellence in planning and implementation

Weakness –

- Inadequate number of lab faculty.

Opportunities –

- Launching new UG & PG programs every year.
- Student hostels and faculty quarters on Campus.

Threats –

- Competition from international players.

8. **Plans of institution for next year**

The Plan for improvement in the next year covers the following areas --

- Student Placements
- Publications
- Patents
- Major and Minor Research Projects
- International Conferences

Name Dr. Poonam Upadhyay

Sd/-

Signature of the Coordinator, IQAC

Name Dr. C. Kiranmai

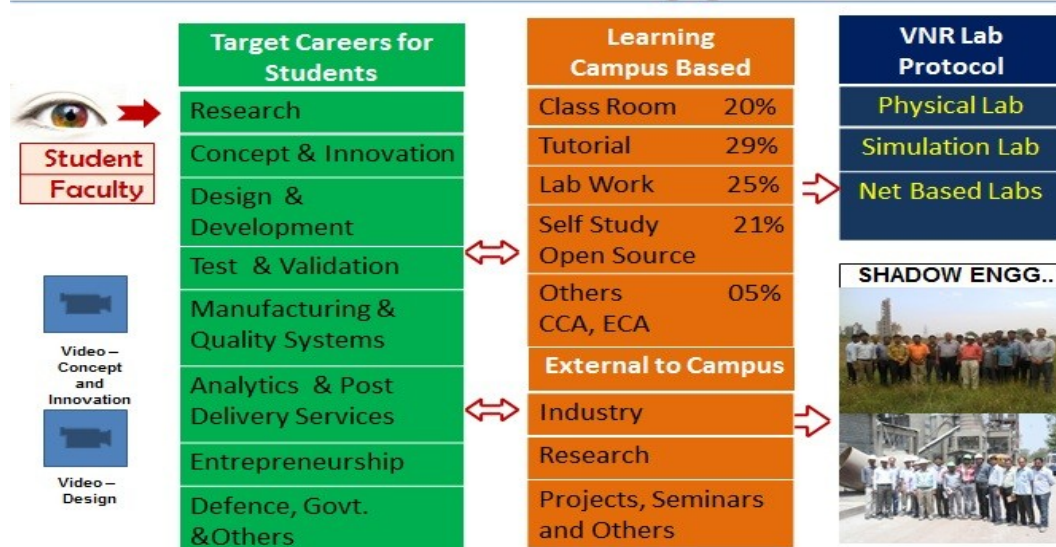
Sd/-

Signature of the Chairperson, IQAC

Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

Career Vision Approach



Excellence in Engineering Education from students' perspective is that students learn in the class rooms and on their own by listening, visualizing, experimenting, experiencing, and going through practical training. The philosophy of education is to work with “END IN MIND”. Hence the teaching learning process of VNR VJIT is structured as ‘Career Vision Approach’ - a student visualizing the nature of work that he/ she will be involved in after completion of the graduate program and the physical environment around their work. Four years prior to their graduation during the first week of registration an Induction program is conducted for the students to provide support for a successful transition and to create a career vision approach. Three years prior to their graduation, the students are sent as resident Shadow Engineers to experience the industrial environment. Two years prior to graduation, students have an opportunity to work on projects to feel like Engineers. And finally During the year of graduation, students are trained to cultivate a sense of accomplishment and are introduced to higher studies and careers.

SHOW N TELL

A new facility is created by name ‘Show and Tell’ as a platform for the students to exhibit and explain projects in a square in an open area.

- The concept involves showcasing and presenting innovative ideas and projects that are developed by students in different labs to motivate other students. This concept tries to create a space where innovative ideas are shared and shaped creating a concrete possibility for research.
- The Show and Tell square provides an opportunity to give a demonstration along with micro-talks structured into 10-20 minutes.
- The goal is to present the key points and differentials of the project during a timeframe that captures the attention of the audience.
- It is mandatory for all the final year (B.Tech/M.Tech) students to exhibit their projects on the Show & Tell platform before attending their viva-voce examination.