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

1. 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.	040 – 23042758/59 Fax: 040-23042760
Name of the Head of the Institution:	Dr. C. D. Naidu
Tel. No. with STD Code:	040 - 23041516
Mobile:	09391008138

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:

www.vnrvjiet.ac.in/aqar2013-14

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	1st Cycle	A	3.21	2013	5 Years
2	2nd Cycle				
3	3rd Cycle				
4	4th Cycle				

1.7 Date of Establishment of IQAC :   DD/MM/YYYY

18/02/2013

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

2013-14

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

   i. AQAR ___AQAR 2012-13 submitted to NAAC on 23-12-2013 (DD/MM/YYYY)
  ii. AQAR_____ _____ (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. Automation
6. Advanced Manufacturing Systems
7. CAD/ CAM
8. VLSI System Design
9. Embedded Systems
10. Computer Network Information Systems
11. Instrumentation
12. Software 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)*	1. **UGC Minor Research Project** 2. **TEQIP – MHRD Project** 3. **AICTE – Research Promotional Scheme**
UGC-COP Programmes	---		

2. IQAC Composition and Activities

2.1 No. of Teachers

| 20 |

2.2 No. of Administrative/Technical staff

| 9 |

2.3 No. of students

| 2 |

2.4 No. of Management representatives

| 3 |

2.5 No. of Alumni

| 2 |

2. 6 No. of any other stakeholder and

   community representatives

| 1 |

2.7 No. of Employers/ Industrialists

| 2 |

2.8 No. of other External Experts

| 1 |

2.9 Total No. of members

| 40 |

2.10 No. of IQAC meetings held

| 1 |

2.11 No. of meetings with various stakeholders: No. | 13 | Faculty | 1 |

Non-Teaching Staff Students | 1 | Alumni | 3 | Others

- Industry Employers – 5
- Parents – 2
- Social Representative (Gram Panchayat) - 1

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. | 3 | International | --- | National | --- | State | 1 | Institution Level | 2 |

(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

- IQAC Manual prepared and Approved.
- 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.

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
• Preparation of Quality Indexes 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	Point No 3. Was implemented for Daily monitoring.

2.15 Whether the AQAR was placed in statutory body   Yes ✔   No ---

Management ---   Syndicate ---   Any other body Institute Planning and Development Committee

Provide the details of the action taken

IQAC is producing Daily Reports on Quality parameters and Action is being taken based on the deficiency.

Part – B

Criterion – I

1. 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			
PG	12	2		
UG	8	0		
PG Diploma			All Programs are Self-Financed	18*
Advanced Diploma				
Diploma				
Certificate				
Others				
Total	20	2		

Interdisciplinary				
Innovative				

*

SNO	Department	Name of the Course
1	CE	Practical Training on Total Station
2		Certificate course on Primavera(Level-4)
3	EEE	Oracle: Module-1
4		Solar Photo Voltaic Technologies and Embedded system Applications
5	ME	CATIA Primer
6		CATIA Advance
7		Solar PV design Installation Commission and Maintenance
8		Product Life cycle management
9	ECE	Lab VIEW: Design and Development
10		Embedded Systems
11		VLSI tools for digital system design
12	CSE	Enterprise Applications development (J2EE) in Cloud Environment using IBM SMART CLOUD
13		Advanced JAVA(J2EE)
14		Mobile Applications Development using IBM Worklite
15		Android Application Development
16	IT	Oracle Certification
17		Java Certification
18	AME	Pro-E(Creo)

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

Pattern	Number of programmes
Semester	20
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 i/p from Stakeholders.
- These changes are discussed by the concerned faculty amongst themselves & finally presented to 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 after consulting industry professionals.
- Certificate courses are introduced as part of 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.**
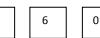
Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Prof.	Assoc. Prof.	Professors	Others
249	161	63	25	

2.2 No. of permanent faculty with Ph.D. | 38 |

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
	76	6	11	5	6	4	0	0	93	15

2.4 No. of Guest and Visiting faculty and Temporary faculty | 11 | | 6 | | 0 |

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	73	83	8
Presented papers	74	31	0
Resource Persons	0	7	2

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

- Engineer in Mirror
- Shadow Engineering
- Domain Engineering
- 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

2.7 Total No. of actual teaching days | 180 |

during this academic year

2.8   Examination/ Evaluation Reforms initiated by

Bar Coding

the Institution (for example: Open Book Examination, Bar Coding,
Double Valuation, Photocopy, Online Multiple Choice Questions)

2.9   No. of faculty members involved in curriculum

37	62	8

restructuring/revision/syllabus development
as member of Board of Study/Faculty/Curriculum Development workshop

2.10 Average percentage of attendance of students

79%

2.11 Course/Programme wise distribution of pass percentage :

I Semester :

Title of the Programme	Year of I Semester	Total no. of students appeared	Division				
			Distinction %	I %	II %	III	Pass %
CE	I	120	63.33	21.67	3.33	0.00	88.33
	II	145	9.66	33.10	22.07	0.00	64.83
	III	141	33.33	26.24	18.44	0.00	78.01
	IV	136	41.91	47.79	5.15	0.00	94.85
EEE	I	120	63.33	9.17	0.83	0.00	73.33
	II	72	66.67	16.67	4.17	0.00	87.50
	III	72	43.06	27.78	6.94	0.00	77.78
	IV	72	50.00	40.28	2.78	0.00	93.06
ME	I	120	60.83	22.50	6.67	0.00	90.00
	II	142	33.10	33.10	5.63	0.00	71.83
	III	138	44.93	21.74	3.62	0.00	70.29
	IV	142	49.30	36.62	1.41	0.00	87.32
ECE	I	179	81.01	10.06	2.79	0.00	93.85
	II	145	73.10	13.10	2.76	0.00	88.97
	III	140	70.71	13.57	1.43	0.00	85.71
	IV	140	80.00	10.71	1.43	0.00	92.14
IT	I	60	60.00	16.67	1.67	0.00	78.33
	II	67	40.30	14.93	7.46	0.00	62.69
	III	67	38.81	31.34	7.46	0.00	77.61
	IV	70	50.00	38.57	2.86	0.00	91.43
EIE	I	119	57.14	21.01	0.84	0.00	78.99
	II	140	15.71	26.43	11.43	0.00	53.57
	III	142	38.73	19.72	4.23	0.00	62.68
	IV	72	36.11	27.78	4.17	0.00	68.06
CSE	I	178	84.83	5.06	0.56	0.00	90.45
	II	142	47.89	22.54	7.75	0.70	78.87
	III	142	42.96	30.99	6.34	0.00	80.28
	IV	142	28.17	37.32	14.79	1.41	81.69
AME	I	60	41.67	8.33	0.00	0.00	50.00
	II	70	10.00	12.86	11.43	1.43	35.71
	III	55	27.27	23.64	1.82	0.00	52.73
	IV	59	18.64	33.90	3.39	0.00	55.93

II Semester:

Title of the Programme	Year of II Semester	Total no. of students appeared	Division				
			Distinction %	I %	II %	III %	Pass %
CE	I	120	54.17	24.17	2.50	0.00	80.83
	II	144	38.89	22.22	3.47	0.00	64.58
	III	137	40.15	30.66	9.49	1.46	81.75
	IV	136	15.44	69.85	13.97	0.00	99.26
EEE	I	119	74.79	14.29	3.36	0.84	93.28
	II	71	73.24	19.72	1.41	0.00	94.37
	III	72	62.50	15.28	5.56	0.00	83.33
	IV	72	86.11	1.39	0.00	0.00	87.50
ME	I	120	84.17	6.67	0.00	0.00	90.83
	II	143	68.53	11.89	0.00	0.00	80.42
	III	137	46.72	23.36	4.38	1.46	75.91
	IV	141	92.91	4.96	0.00	0.00	97.87
ECE	I	179	79.89	13.41	1.68	0.00	94.97
	II	145	64.14	14.48	2.07	0.00	80.69
	III	144	65.97	13.89	0.00	0.00	79.86
	IV	141	37.59	43.26	6.38	0.00	87.23
IT	I	60	55.00	25.00	0.00	0.00	80.00
	II	64	45.31	21.88	12.50	0.00	79.69
	III	64	45.31	25.00	1.56	0.00	71.88
	IV	70	18.57	65.71	10.00	0.00	94.29
EIE	I	118	60.17	16.95	1.69	0.00	78.81
	II	138	31.16	12.32	14.49	13.04	71.01
	III	142	28.17	19.01	11.27	9.86	68.31
	IV	72	76.39	11.11	2.78	0.00	90.28
CSE	I	178	87.64	2.25	0.56	0.00	90.45
	II	141	65.96	12.77	8.51	0.00	87.23
	III	141	60.99	21.28	2.84	0.00	85.11
	IV	142	78.87	17.61	0.00	0.00	96.48
AME	I	60	41.67	11.67	0.00	0.00	53.33
	II	70	25.71	10.00	8.57	1.43	45.71
	III	56	51.79	19.64	1.79	0.00	73.21
	IV	59	83.05	8.47	0.00	0.00	91.53

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :
- By evaluating the results and by suggesting measures for improvement.
- Analysing the feedback given by students and other stake holders.
- Monitoring the attendance on daily / monthly basis.
- Conducting quality related seminars.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	15
UGC – Faculty Improvement Programme	8
HRD programmes	8
Orientation programmes	32
Faculty exchange programme	4
Staff training conducted by the university	14
Staff training conducted by other institutions	22
Summer / Winter schools, Workshops, etc.	147
Others	3

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	86	0	0	0
Technical Staff	52	2	0	2

Criterion – III

3. Research, Consultancy and Extension

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

- Active Research was done by faculty members for the various problems and issues of Institute
- Faculty members are encouraged to publish research papers in journals
- The research aptitude is inculcated among students through project work
- Eminent scientists/academicians/technocrats are invited to motivate faculty and students
- Workshop / seminars / conferences are organised.

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	10	12	Nil	3
Outlay in Rs. Lakhs	219.19	158.34	---	30.5

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	4	7	17
Outlay in Rs. Lakhs	3.50	15.20	26.35	75.985

3.4   Details on research publications

	International	National	Others
Peer Review Journals	50	2	
Non-Peer Review Journals	4		
e-Journals	1		
Conference proceedings	62	18	

3.5 Details on Impact factor of publications:

Range 0 - 3.432   Average ---   h-index 5   Nos. in SCOPUS 1

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	2012-14	AICTE	12.25	12.25
	2012-14	AICTE	11.25	11.25
	2012-14	AICTE	7.00	7.00
	2012-14	AICTE	17.00	17.00
	2012-14	AICTE	15.70	15.70
	2012-14	AICTE	8.25	8.25
	2013-15	ITRA	5.35	1.04
	2013-15	ITRA	30.18	5.81
Minor Projects	2013-15	Ananth Technologies	4.24	0
	2013-14	UGC	8.95	4.95
	2014-16	UGC	4.90	4.90
	2014-16	UGC	3.50	3.50
	2013-14	Ananth Tech. Pvt. Ltd. Hyd.	4.25	0
	2013-14	UGC	5.80	2.00
	2013-14	UGC	3.50	3.20
	2011-14	AICTE	3.50	3.50
Interdisciplinary Projects	2014-15	Advanced Systems Laboratory, DRDO	9.91	4.45
Industry sponsored	2011-15	M/S Drive Lozics	14.20	6.00
	2011-15	M/S Drive Lozics	18.31	7.00
	2012-15	M/s X_Design Ventures	13.05	6.00
Projects sponsored by the University/ College	---	---	---	---
Students research projects *(other than compulsory by the University)*	---	---	---	---
Any other(Specify)	---	---	---	---
Total			201.09	123.80

3.7 No. of books published   i) With ISBN No. ┌─────┐   Chapters in Edited Books ┌─────┐
                                                │ 1 │   │ 1 │
                                                └─────┘   └─────┘

                        ii) Without ISBN No.   ┌─────┐
                                               │ 4 │
                                               └─────┘

3.8 No. of University Departments receiving funds from

        UGC-SAP ┌──────┐   CAS ┌──────┐   DST-FIST ┌──────────┐
                 └──────┘   └──────┘   │ 5 Dept. │
                                                      └──────────┘
        DPE   ┌──────┐   DBT Scheme/funds ┌──────┐
                 └──────┘   └──────┘

3.9 For colleges   Autonomy **Nil**   CPE **Nil**   DBT Star Scheme **Nil**

                 INSPIRE **Nil**   CE **Nil**   Any Other (specify) **Nil**

3.10 Revenue generated through consultancy   **3.52Lakhs**

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	2	2			
Sponsoring agencies	TEQIP-2 & (TCS, Infotech, SK Systems, REC, Ramakrishna Transporters, NEXUS, Raheja Vistas, University of Hyderabad, Computer Society of India, ISTE	TEQIP-2 technically IEEE, AP & VSI. Hyd)			

3.12 No. of faculty served as experts, chairpersons or resource persons   24

3.13 No. of collaborations   :   International   2   National   13   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   Rs. 30.50 Lakhs

   Total   Rs. 30.50 Lakhs

3.16 No. of patents received this Year

Type of Patent		Number
National	Applied	2
	Granted	0
International	Applied	0
	Granted	0
Commercialised	Applied	2
	Granted	0

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
3	1	2	0	0	0	0

3.18 No. of faculty from the Institution
    who are Ph. D. Guides

13

    and students registered under them

55

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

2

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

JRF 0   SRF 0   Project Fellows 0   Any other 1

3.21 No. of students Participated in NSS events:

University level 5   State level 10

National level 0   International level 0

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 [3]

NCC [---]   NSS [3]   Any other [---]

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

1. NSS SPECIAL CAMP (03-07-2013 TO 05-07-2013)

- Camp held at Rajpet Village, kowdipally mandal, Medak Dist**.**
- Conducted health survey for nearly 400 houses.
- Conducted Mega Health Camp in accordance to survey and distributed free medicines.
- Spent a whole day by sharing their experiences in old age home
- Career guidance program to secondary local Govt High School student
- Visited a Blind school (Sai baba andhula patashala) in Narsapur.

2. BLOOD DONATION CAMP (30 Aug, 2013)
- In association with Janani blood bank.
- A total of 242 units were collected and given to them for its use for thalassemia and sickle cell patients.

3. DISTRIBUTION OF CLAY GANESH IDOLS (8th Sept, 2013)

- NSS unit distributed about 200 clay Ganesh idols on 08/09/2011 for a nominal fare of Rs 12 for spreading a positive message of reducing water pollution.

4. Stall at Convergence (03-10-2013 to 05-10-2013)

- The stall was mainly aimed in bringing awareness about our role in rise in rupee value.
- We also collected the pulse of the public in the aspects future of India.
- We also gave some thought provoking challenges like picturing social events

5. Salute – Parade event (25th Jan-2014)

- NSS has taken an initiative for the first time 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.

6. APPRECIATION DRIVE (26 Jan, 2014)

- Objective is to appreciate citizens for being responsible & people rendering selfless service.
- NSS unit divided into 2 groups, each group setting out to appreciate people following traffic rules.
- The other appreciating all the MCH workers and the other group appreciating nurses and lady conductors in APS RTC.

7. Sinti spring at Sintillashunz (06-03-2014 to 08-03-2014)

- The stall was aimed in bringing awareness about the importance of right to vote.
- A demonstration of importance of rupee value by a setup of a mock shop.

8. Open day(11-03-2014)

- Main Objective is to showcase Engineering Education to Govt School Students and encourage them to build up their carrier.
- 75 students from 9th standards of ZPHS School in Bachupally were brought to college.
- Various Labs, Workshops, R & D centre were shown and explained in brief.
- Many Gaming Sessions and cultural programs were conducted and concluded that day with career Guidance Session.

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	95 (62 Classes+ 33 Tutorial Rooms)	16 (10 Classes+6 Tutorial Rooms)	• Donation from Patrons of the Society • Tuition Fee	111
Laboratories	114	0	• Donation from Patrons of the Society • Tuition Fee • MODROBS (AICTE – New Delhi)	114
Seminar Halls	10		• Donation from Patrons of the Society • Tuition Fee	10
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	4	7	Institute	11
Value of the equipment purchased during the year (Rs. in Lakhs)	31.17	109.71239	• Institute • AICTE	140.88239
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	53525	1,42,77,795	3565	12,50,263	69,669 (Central Lib. + Dept. Lib.)	1,55,28,058 Total: 1,56,04,133
Reference Books	11659		199		11858	
e-Books					1520	Downloads
Journals	198	5,37,446	33	1,06,800	231	6,44,246
e-Journals	695	12,23,519	65		630	13,71,930
Digital Database						
CD & Video	2262	Downloads	105	Downloads		
Others (specify)	1. D – Space Digital Library Package 2. Lib Sys – Integrated Lib Automation Software 3. Mobile Learning					

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	1380	15	100 MBPS	1 (Browsing Facility in all Computer Labs)	1	3	9	1 (Library)
Added	120	5	---	---	---	---	---	---
Total	1500	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.)

- 1500 Computers
- Wi-Fi Campus with 100mbps
- Guest Lectures
- Faculty Development Programs
- Webinars
- Workshops both for faculty & Students
- Domain Engg., Engineer in Mirror
- N/W forensics workshop & Cyber forensics workshop

4.6 Amount spent on maintenance in lakhs :

i) ICT

Rs. 20.51 lakhs

ii) Campus Infrastructure and facilities

Rs. 58.74 lakhs

iii) Equipments

Rs. 59.81lakhs

iv) Others

Rs. 19.95 lakhs

Total :

Rs. 159.03 lakhs

Criterion – V
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Career Vision Promotion Centre.
- Training Programs on Attitude, Aptitude and Soft Skills
- Attendance monitoring and corrective suggestions
- Relationship management Cell.
- Finishing School for placement support

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
- Student participation in faculty research projects
- Student skill development certificate courses.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
3614	353	0	0

(b) No. of students outside the state

(c) No. of international students

0

Men
No	%
2631	66.32

Women
No	%
1336	33.67

2012-13						2013-14					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1598	329	131	1081	5	3144	1815	460	175	1512	5	3967

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

515

5.5 No. of students qualified in these examinations

NET [   ]   SET/SLET [1]   GATE [110]   CAT [10]

IAS/IPS etc [   ]   State PSC [   ]   UPSC [   ]   Others [40]

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).

On campus			*Off Campus*
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
52	605	534	

5.8 Details of gender sensitization programmes

- Women Welfare Cell looks into the issues concerning the grievance, welfare and empowerment of women.
- Women empowerment lectures are organized.

5.9 Students Activities

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

State/ University level | 189 | National level | 7 | International level | |

No. of students participated in cultural events

State/ University level | 91 | National level | 14 | International level | 1 |

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

Sports: State/University level | 146 | National level | 9 | International level | |

Cultural: State/University level | 48 | National level | 1 | International level | 0 |

5.10 Scholarships and Financial Support

	Number of students	Amount (Rs.)
Financial support from institution	32	9,72,250
Financial support from government	2356	8,60,67,200
Financial support from other sources	2	68000
Number of students who received International/ National recognitions		

5.11   Student organised / initiatives

Fairs : State/ University level   [2]   National level   [6]   International level   [   ]

Exhibition: State/ University level   [   ]   National level   [1]   International level   [   ]

5.12   No. of social initiatives undertaken by the students

[18]

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:
A deemed university of Academic Excellence for National and International students meeting global standards with social commitment and democratic values

Mission:
To produce global citizens with knowledge and commitment to strive to enhance quality of life through meeting technological, educational, managerial and social challenges

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.

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

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.
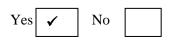
6.4 Welfare schemes for

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. 32,00,00,000/-

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.

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

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 is strengthened and improved in the Academic Year 2013-14
- Application for the Deemed University status is submitted
- 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) Shadow Engineering

*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_____   *Name Dr. C.D. Naidu_____*

_____   _____

Signature of the Coordinator, IQAC   *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 VJIET 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.

Shadow Engineering

1. This unique program called 'Shadow Engineering' allows prospective Engineering students to see industry from a professional perspective and allow them to spend a week time with the current engineering practices in the multidisciplinary area at the industry and experience the industry life.
2. The shadow engineering program is an opportunity for a budding engineer to learn what it means to be an engineer.
3. This program won global recognition under the category of Institute – Industry interaction by bagging the award in the WORLD EDUCATION SUMMIT – 13 conducted on April 23-24th 2013, at New Delhi.