

# **B. V. RAJU INSTITUTE OF TECHNOLOGY**

Vishnupur, Narsapur, Medak District, Telangan  
a

**Annual Report of Academic Year 2017-18**



**Venue:**

**B.V.RAJU INSTITUTE OF TECHNOLOGY  
Vishnupur, Narsapur, Medak District, Telangana**

## ACADEMIC AFFAIRS

### Institutional Front:

#### a. Admissions & Affiliations:

Three new courses in B.Tech. program have been approved by AICTE & JNTUH for 2017-2018 in addition to the nine existing courses in B.Tech. program. The three new courses are:

The approved intake status of UG and PG programs for the academic year 2017-18 is given as follows:

<b>Program</b>	<b>Branch</b>	<b>Intake 2017-18</b>
B.Tech.	Biomedical Engineering	30
	Chemical Engineering	60
	Computer Science and Engineering	300
	Information Technology	120
	Electronics and Communication Engg.	240
	Electrical and Electronics Engg.	120
	Mechanical Engineering	120
	Civil Engineering	120
	Pharmaceutical Engineering	60
M.Tech.	Computer Science and Engineering	18
	VLSI Design	18
	Embedded Systems	18
	Chemical Engineering	18
	Electrical Power systems	18
	Power Engineering and Energy Systems	18
	Engineering Design	18
MBA	MBA	60

### UG Admissions for 2017-2018:

The admission status of UG programs for the academic year 2017-18 is given as follows:

S.No.	Branch	Intake	Filled	Opening Ranks OC Category		Closing Ranks OC Category	
				Male	Female	Male	Female
1	BME	30	30				
2	CHE	60	54				
3	CSE	300	300				
4	IT	120	120				
5	ECE	240	240				
6	EEE	120	120				
7	MECH	120	119				
8	CIVIL	120	120				
9	PHE	60	55				
<b>Total:</b>		<b>1170</b>	<b>1158</b>				

#### b. Accreditations:

- Extension of UGC autonomous status:**  
UGC inspection completed successfully, Autonomous status has been extended for the five more years i.e. 2018-19 to 2023-24.
- National Board of Accreditation (NBA):**  
Self-Assessment Report (SAR) for re-accreditation of seven courses in B.Tech programs (CSE, IT, ECE, EEE, CHE, MECH and CIVIL) has been submitted already and the NBA team visit is awaited.
- National Assessment and Accreditation Council (NAAC):**  
BVRIT has been accredited by NAAC with A grade (3.29) in 2017 and is valid up to 2022. Annual Quality Assessment Report (AQAR) for the year 2019-20 has been submitted.

**c. Recognitions:**

□ **Institution Innovation Council (IIC):**

BVRIT has established “Institution Innovation Council” a scheme promoted by AICTE, MHRD, Government of India in 2019 to inculcate Design thinking, Ideation, Patenting and Entrepreneurial skills among the engineering students.

□ **Unnat Bharath Abhiyan (UBA):**

BVRIT has collaborated with MHRD for bringing the transformational changes in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India. BVRIT has adopted 5 villages named Ramachandrapuram, Chinna Chinthakunta, Reddipalle, Chippalthurthi and Lingapur under UBA and conducted more than 1000 household surveys.

**d. MOUs:**

BVRIT has executed MOUs with the following organizations during 2017-2018 :

- MoU with National Remote Sensing Centre to explore opportunities for academic exchange and collaboration to support Internships and Placements.
- MoU with MSN Laboratories Pvt. Ltd. And Aurore Life Sciences Pvt Ltd for Outcome based trainings, placements and related services.
- MoU with Hysoc Technologies for to provide technology exposure, internships & Core Placements.
- MoU with Avghni Renewable Systems India Pvt Ltd for Training and Placements.
- MoU with Nanochip for Software maintenance.
- MoU with NVIDIA\_Bennett University for Training in Machine Learning, Deep Learning and AI Skills.
- MoU with Neuland Laboratories Limited for Outcome based trainings, placements and related services.
- MoU with Neuland Laboratories Limited for Outcome based trainings, placements and related services.
- MoU with Aurobindo Pharma Limited for Outcome based trainings, placements and related services.

#### **e. R-15 Regulations & Curriculum:**

Few salient features of R15 B.Tech Academic Regulations and Curriculum:

- Total number of Credits: 160
- Introduction of NSS or NSO or Yoga/ Environmental Science and Rural Sensitization, Indian Constitution/Gender Sensitization, Human Values and Professional Ethics as Mandatory Courses
- Performance Assessment (30:70 CIE:SEE)
- Answer book verification and Challenge valuation
- Improvement for Continuous Internal Evaluation

#### **B.Tech. with Honors or Minors in Engineering**

A student will be eligible to get B.Tech. Degree with Honors or Minors in Engineering, if he/she completes additional 20 credits under any ONE of the schemes.

- Honors is for Vertical/ Specialization in his/her OWN Branch for Research orientation.
- Minors is in any OTHER Branch for improving Employability.
- A student can register for either Honors or Minors and not for both.

#### **f. VEDIC – A step towards educational excellence:**

As a collaborative platform it supports SVES institutions through teaching, research and technical development programs for faculty & staff, and holistic and technical competencies programs for students.

#### **The Mission of VEDIC**

The Mission of VEDIC is to facilitate and provide transformative interactive learning experiences for the leadership, faculty, students, and support staff of the institute that will enable them to adapt to the fast pace of changes in the field of education.

#### **VEDIC Goals**

Engage our Institutions faculty members, staff, and students, to work in a collaborative environment to create rich, engaged learning, teaching, and improved behavioural experiences; Contribute to significant increases in student learning retention and graduation rates, and thus Establish our Institution as a System leader in the areas of Educational Research and Academic Leadership.

## Objectives of the distinctive

Design, develop, and deliver training sessions and consultations on innovative educational practices, leadership, emotional intelligence, personality development, research methods, career development, etc. for faculty and students.

- Deliver industry-oriented skill development and placement-oriented training programs in cutting-edge areas for faculty and students.
- Provide a platform for faculty to Promote and share best practices in education, Share expertise in technical domains, and Form interdisciplinary research collaborations
- Build a core team of faculty reviewers and co-facilitators for offering the training sessions and consultations.
- Build innovative educational technology solutions for pedagogical challenges.

### Students Front:

#### a. Examination Results:

2017-2021 batch (final result):

Branch	Admitted		Registered	Passed	Failed	Pass %
	Dir.	LE				
BME	30	8	28	24	4	85.71
CHE	54	11	62	47	15	75.80
CSE	300	31	331	281	50	84.89
IT	120	2	122	102	20	83.60
ECE	240	48	288	264	24	91.66
EEE	120	24	144	130	14	90.27
M ECH	119	28	141	117	24	82.97
CIVIL	120	30	144	118	26	81.94
PHE	55	0	45	11	5	68.75
Over all	1158	182	1355	1036	190	85.73

**b. Placements**

**Placements Status – Company wise as shown in Annexure**

**Placements A.Y. 2017-2018:**

- A total of 50 companies conducted the recruitment processes for the students of BVRIT and a total of 898 students secured the job offers.
- A total of 120 students secured the internship opportunities in 59 companies.

**Placements A.Y. 2018-2019:**

- A total of 40 companies conducted the recruitment processes for the students of BVRIT and a total of 801 students have secured the job offers. The placement drives for this year is still going on and the college is taking all possible care to ensure that the other eligible students will also be placed before completion of the academic year.

**c. Students Achievements**

Year	Name of the award/ medal	Team / Individual	inter-university / state / National/ International	Name of the event	Name of the student
2017-18	3 <sup>RD</sup> PLACE	Team	29 <sup>th</sup> NATIONAL FEDERATION CUP, JIND, HARYANA	THROWBALL	T.SHANMUKA PRIYA(IT)
	AIVSC	Individual	NATIONAL TRAINING, JODHPUR, Rajasthan. 2018-2019	NCC	Kavya hogle
	Representation	Team	SENIOR NATIONAL, cuttack University, Odisha.2017-2018	FOOT BALL	B. MEGHANA BAMAN (CIVIL) 3 <sup>rd</sup> year
	Bronze Medal	Team	SENIOR NATIONALS, Chennai, Tamilnadu.2017-2018	THROWBALL	D.LOHITHA (ECE)/3
	Representation	Team	Inter university, HyderabadKakatiya University, Warangal2017-2018.	HAND BALL	Divya pavani (BME)/4
	Representation	Team	Inter university, Hyderabad. Venkateswara University, Tirupathi.2017-2018.	LAWN TENNIS	G. NIVED CHOWDARY (CSE)
	Representation	Team	inter university, Hyderabad. Venkateswara University, Tirupathi.2017-2018.	LAWN TENNIS	G. ASHISH (ECE)/1
	Representation	Team	Punjab University, Amururthsare.2017-2018	SOFTBALL	B. AKSHARA (CSE)/1
	Representation	Team	JNT UNIVERSITY, HYDERABAD.Mysure University, Karnataka.2017-2018	KHO-KHO	K. GEETH SURYA (IT)/3

**d. Induction program for first year UG students:**

Induction and Orientation has been conducted from 26/07/2017 to 31/07/2017 for the academic year 2017-18.



## Faculty Front:

### a. Faculty Recruitment and Retention:

Recruitment is a continuous process in our Institution as emphasized by the honorable members of the governing body in the previous governing body meetings.

- Based on the requirement, the advertisement for recruitment is given in national level newspapers, placed on the website and applications are called for recruitment of faculty. Interviews are conducted at the institutional level. The selection committee headed by Vice Chairman, Principal, HOD, and Subject experts as members. The selected faculty will be recruited and will be sent for ratification at JNTUH.
- For Ph.D. holders, with higher level of achievement, an open invitation is placed on the website. The competent Ph.D. holders are recruited round the year.

#### Faculty position as on A.Y 2017-18:

Total no. of Teaching Faculty members	No. of faculty members with Ph.D	No. of faculty members pursuing Ph.D	Total no. of Non-Teaching Faculty members
350	81	200	35

#### New faculty recruited / relieved during 2017-2018

Total no. of Teaching faculty recruited	No. of Teaching faculty relieved	Total no. of Teaching faculty as on date	Total no. of Non-Teaching Staff recruited	Total no. of Non-Teaching staff relieved	Total no. of Non-Teaching Staff as on date
30	15	350	7	20	35

**b. Faculty Achievements:**

Details of Journal papers, Conference papers, FDPs, Seminars, workshops, guest lecturers & invited lectures organized at our college and participated outside - Department wise- during 2017:

	No. of Journal Papers	No. of conference papers	No. of W/s, Seminars, FDPs, webinars attended	No. of W/s, Seminars, FDPs, webinars conducted
ECE	8	7	8	2
CSE	7	5	7	3
EEE	5	5	6	
MECH	6	4	6	1
CIVIL	4	4	5	1
CHE	2	2	2	
BME	5	5	5	
IT	5	5	5	1
PHE	2	2	2	1
BS&h	1	1	1	
MBA	3	3	3	
	<b>48</b>	<b>43</b>	<b>50</b>	<b>9</b>

## RESEARCH & DEVELOPMENT ACTIVITIES:

### Journal Publications ( SCI/Scopus) and books / book chapters

	2017	
	Conference	Book/Book Chapter
BS&H	5	4 Book Chapter
CHE	7	
CE	3	4 Book Chapter
CSE	6	4 Book Chapter
ECE	6	1 Book Chapter
EEE	4	
IT	4	1 Book
PHE	4	
ME	4	4 Book Chapter
MBA	0	0
Total	43	18 books, Book Chapters

### Faculty Development Programs 2017-2018

S. No.	Program/Workshop
1.	Workshop on freshmen conclave
2.	Workshop on freshmen conclave
3.	Workshop on-Luminous Sparks Batch _ 2 Level 3
4.	Workshop on-Scientific Educational Practices
5.	Workshop on-C.A.S.T Train the Trainer
6.	Workshop on -Inspire-Impact-Introspect Level-1 Batch 1
7.	Workshop on -Inspire-Impact-Introspect Level-1 Batch 2
8.	Workshop on-QCARES
9.	Workshop on -Inspire-Impact-Introspect Level-1 Batch 3
10.	Workshop on-Inspire-Impact-Introspect Level-1 Batch 4
11.	Workshop on-Inspire-Impact-Introspect Level-1 Batch 5
12.	Workshop on Video Material Creation
13.	Workshop on-Inspire-Impact-Introspect Level-1 Batch 6
14.	Workshop on-Inspire-Impact-Introspect Level-1 Batch 7
15.	Workshop on-Discovery
16.	Workshop on-Inspire-Impact-Introspect Level-1 Batch 8
17.	Workshop on Video Material Creation
18.	Workshop on-Inspire-Impact-Introspect Level-1 Batch 9
19.	Workshop on Video Material Creation
20.	Workshop on-Inspire-Impact-Introspect Level-2 Batch 1
21.	Workshop on Video Material Creation
22.	Workshop on-Inspire-Impact-Introspect Level-1 Batch 10
23.	Workshop on Video Material Creation
24.	Workshop on Data Analytics (NASSCOM)

25.	Workshop on-Inspire-Impact-Introspect Level-2 Batch 2
26.	Workshop on Video Material Creation
27.	Workshop on-Think Technology Transform Level 1
28.	Workshop on-Think Technology Transform Level 1
29.	Workshop on Video Material Creation
30.	FDP on Labview programming and interfacing with MYDAQ
31.	FDP on Labview programming and interfacing with MYRIO
32.	FDP an Embedded system Design
33.	Workshop on Ethical Hacking and Cyber security
34.	FDP on “Advances in Cloud Computing” at BVRIT Narsapur, associated with E&ICT Academy NIT Warangal
35.	Workshop on Machine Learning
36.	FDP on Cloud Computing
37.	Hands on Training on Structural design by STAAD Pro software
38.	Workshop on “Internet of Things” , at BVRIT Narsapur, associated with IIT Varnasi
39.	A National Level event on Internet of Things
40.	National Conference on-RECENT ADVANCES IN POWER INDUSTRIAL DRIVES AND ENERGY EVOLUTIONARY TECHNOLOGIES

### Sponsored Projects and consultancy activities during 2017

#### Ongoing Sponsored Projects

<u>S.N</u> <u>o</u>	Project Title	Principal Investigator	Department	Grant Support Agency	Budget Sanctioned (Rs in Lakhs)	Project Duration
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1	Synthesis of Graphene from Agricultural Waste as Green substitute and its Application in Remediation of Heavy metals in Waste water.	Co-PI: G. Prabhakar PI: Dr V. Madhavi BVRITH	BS&H	TEQIP-III	2,50,000/-	2 years
2	A Companion type assistive system for Elderly People using VLSI based Service Robot	Dr.Chinnaiah	ECE	DST	49.4	3 years (March 2017 - March 2020)
3	Synthesis of Graphene from Agricultural Waste as Green substitute and its Application in Remediation of Heavy	Co-PI: G. Prabhakar PI: Dr V. Madhavi BVRITH	BS&H	TEQIP-III	2,50,000/-	2 years
4	Nano Composite Polymer blend electrolytes-Applications to Solid state batteries.	PI: Dr. E. Laxmi Narsaiah Co-PI: Dr. K. Vijay Kumar, JNTUHCES	BS&H	TEQIP-III	2,50,000/-	2 years
5	Rural Women Technology Park at Vishnupur Village, Narsapur Mandal, Medak Dist, Telangana State	Dr.Laxminarsaiah,	BS&H	DST	93.4	3 years (Jan 2017 - Jan 2020)

<b>Ongoing Consultancy Projects</b>						
<b>S.No</b>	<b>Project Title</b>	<b>Principal Investigator</b>	<b>Department</b>	<b>Consultancy Client</b>	<b>Budget Sanctioned (Rs in Lakhs)</b>	<b>Project Duration</b>
1	Feasibility study	Dr. M.Mallaiah	Chemical	Sun Pharma	3.83	1 year
2	Automatic Ceramic Tile	Dr. V. Murali Krishna, Dr. A.Varun, Dr.	Mechanical, ECE, CSE	Anjani Holding & One Convergence	5	2 years
	Sorting Systems	Suresh Dara, Dr. Apurva Kumari				

### Patents

	<b>2017</b>			<b>2018</b>		
	<b>Patents filed</b>	<b>Patent Published</b>	<b>Patent Granted</b>	<b>Patents filed</b>	<b>Patent Published</b>	<b>Patent Granted</b>
BS&H	0	0	0	0	0	0
BME	1	1				
CHE	1	0		5	3	
CE		0			1	
CSE	1	1	-	6	4	2
ECE	2	0	0	4	0	0
EEE		2			3	
IT	1	2	0	0	2	0
PHE				0	2	
ME	1	2	0	5	1	1
MBA	0	0	0	0	0	0
<b>Total</b>	<b>7</b>	<b>8</b>	<b>0</b>	<b>20</b>	<b>16</b>	<b>3</b>

### Infrastructural Development

- All class rooms have been equipped with infrastructural setup including cameras, systems and internet for conducting online classes in addition to the already available ICT devices.
- Construction of 20 bedded Centennial health Centre completed with a plinth area of 5000 sft.
- Construction of Academic block is in progress with a plinth area 60,000 sft.

- B. V. Raju Park work: Pathways work in progress.
- Installation of Sanitization machines, thermal screening and scanning facilities, UV Light based luggage disinfection system, sanitizer plant, fog machines, etc.

**Proposed Infrastructure developmental projects:**

<b>Proposed Projects</b>	<b>Area</b>
Guest house	6000 sft
New kitchen for hostels	12000 sft
New library block	20000 sft
Super market	3000 sft
Additional Student spaces at B. V. Raju park	3000 sft
B. V. Raju Auditorium	20000 sft

**LIBRARY, COMPUTERS & NETWORK INFORMATION**

**Library:**

The college has a full-fledged central library with books and journals to meet the students and faculty requirements.

- Established the DTH 32 Swayam Prabha education channels.
- Newly Introduced Amazon Kindle e-book readers for effective e-learning for students
- Provided 1067 free e-books to the Students and Faculty members for respective branches through HOD's



- Provided Remote access to the online e-journals i.e. IEEE, Springer, ASCE, Science Direct Elsevier, J-Gate, etc.
- Conducted J-Gate webinar for our SVES Groups of Libraries and Library Coordinators, students and faculty members.
- Conducted Grammarly Webinar for our SVES Groups of Libraries and Library Coordinators and BVRITN Campus faculty members.

**Computers:** Total no. of Computers available: 1765.

**CC cameras:** 154 CC cameras installed in the campus for surveillance.

**Internet:** Bandwidth enhanced from 400 Mbps to 454 Mbps (300+40+114 Mbps) during this year.

**Proposal for new courses, strength enhancement in existing courses, & strengthening existing courses:**

**a) Proposal for New courses :**

- B.Tech. CSE ( Cyber Security)
- B.Tech. Mech ( Robotics)

**b) Strengthening existing courses :**

- **Strengthening B.Tech. Pharmaceutical Engineering:**

It is an interdisciplinary course and the curriculum is a blend of pharmaceutical sciences and Chemical Engineering courses. At present only MPC students are eligible. AICTE has approved the eligibility of Bi.Pc stream students to study the B.Tech Biotechnology. The BOS of PHE considered the above aspect and recommended that the present curriculum is suitable for both M.Pc and Bi.Pc stream students at intermediate. The academic council members also endorsed this view and requested the Principal to pursue this matter with AICTE. Hence the item is placed before the governing body.

- **Strengthening B.Tech. (AI&ML) curriculum**  
Collaboration with Bennett University and Inkers Technology for B.Tech. CSE(AI&ML) curriculum development