

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

Vishnupur, Narsapur, Medak District, Telangana

**Annual Report of Academic Year 2021-22**



**Venue:**

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

## ACADEMIC AFFAIRS

### Institutional Front:

One new courses in B.Tech. program have been approved by AICTE & JNTUH for 2021-22 in addition to the Twelve existing courses in B.Tech. program. The one new course are:

- B.Tech–CSE(AI&DS)

### a. Admissions & Affiliations:

The approved intake status of UG and PG programs for the academic year 2021-22 is given as follows:

Program	Branch	Intake 2021-22
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	60
	Pharmaceutical Engineering	60
	CSE(AI&ML)	60
	CSE ( Data Science)	60
	CSE(AI&DS)	60
	Computer Science and Business System ( CSBS)	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 2021-22:

The admission status of UG programs for the academic year 2021-22 is given as follows:

S.No.	Branch	Intake	Filled	Opening Ranks OC Category		Closing Ranks OC Category	
				Male	Female	Male	Female
1	BME	30	21			24966	61046
2	CHE	60	43	22539	42476		
3	CSE	300	300	3455	8973	3957	9482
4	IT	120	120	5376	14516	9911	12387
5	ECE	240	240	11386	16644	8048	25339
6	EEE	120	120	15066	25450	11268	26447
7	MECH	120	57	64323	97020		
8	CIVIL	120	53	95794	95794		
9	PHE	60	60	36294	76123	67647	67647
10	CSE(AI&ML)	60	60	5576	9020	7530	9333
11	CSE(DS)	60	60	3517	9469	7374	9815
12	CSBS	60	60	7118	14204	7013	14508
13	CSE(AI&D S)	60	60	4652	11990	7600	10681
<b>Total:</b>		<b>1410</b>	<b>1254</b>				

#### b. Accreditations:

- **Extension of UGC autonomous status:**  
UGC inspection completed successfully in Oct 2020 and Autonomous status has been extended for the five more years i.e. 2020-21 to 2024-25.
- **National Board of Accreditation (NBA):**  
Re-accreditation of seven courses in B.Tech programmes (CSE, IT, ECE, EEE, CHE, MECH and CIVIL) has been awarded to all the departments
- **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 2021-22 has been submitted.

**c. Recognitions:**

- **AICTE-CII Survey-2020:**  
BVRIT has been accorded with PLATINUM Category by AICTE-CII Survey for the year 2020.
- **ARIIA-2020:**  
BVRTI has been categorized as “Band A” institution (ranked between 06–25) in category of “Private or Self Financed College” in ATAL Ranking of Institutions on Innovation Achievements (ARIIA)2020.
- **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 2021 :

- MoU with TCS for starting B.Tech – CSBS (Computer Science and Business System) course for capacity building.
- MoU with Dhruva Space Pvt. Ltd. to explore opportunities for academic exchange and collaboration to support the establishment of Vishnu space operation centre.
- MoU with National Highways Authority of India to adoption of Road stretch in Kalyan - Nirmal Km 615,000 to Km 668,600.
- MoU with Ramky Enviro Engineer limited for internships and placements.
- MoU with M/s. EV Retron Energies India Pvt. Ltd. to promote and enhance research interest on Lithium-ion battery packs, electrical vehicle design.

- MoU with NASSCOM for skill development and higher employability opportunity.
- MoU with L4G Solutions Private Limited for International course access to the students for online learning, Skill development opportunities for members of the faculties, access to capstone projects by various foreign universities.
- MoU with Great Lakes E-Learning services Pvt. Ltd collaborative learning to the online platform on popular online resources from IIT curriculum.
- MoU with EduSkills for skills development of faculty.
- MoU with Edx for preparing the students and the faculties for industry standard certifications, International course access to the students for online learning and Skill development opportunities for members of the faculties.
- MoU with eAbyas for building the capacity of hosting own LMS, curation of courses for engineering educations and Achieving Complete automation in eLearning.
- MoU with Course Networking on research interest based collaboration for faculties and showcasing of the highest standards of achievements in Teaching Learning & Research.

#### **e. R-20 Regulations & Curriculum:**

Few salient features of R20 B.Tech Academic Regulations and Curriculum:

- Total number of Credits: 160
- Flexibility in choosing Professional Electives (Either specialization wise or general)
- More number of Open Elective courses to cater to the multi-disciplinary expertise
- Open Electives/ Professional Electives courses offered through MOOCs up to 20% of total credits
- Introduction of Computational Thinking and Problem Solving, Python Programming, Introduction to AI, Fundamentals of Design Thinking and Life Sciences course for all the students
- 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 18 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.

Student Development Initiatives (Few Listed):

- **Career Aspirations Series:** 1-Day Program for I Year students on Mindset change to college life and Communication Skills
- **Intellectual Learning Series:** 4-Day programs for III Year Students on Career Preparation and Life Skills
- **Self Management Skills (SMS)** - A student program to create a sense of positive enthusiasm and a total of 34 sessions conducted for 2031 students during the pandemic.

Faculty Skill Development Initiatives (Few Listed):

- **Vishnu Online Interactive Colloquium on Education (VOICE):** VOICE is a program for faculty to share best practices during the pandemic. Conducted 13 sessions covering all faculty in SVES group.
- **Faculty Programs on Research** (Research Proposal Mentoring, Research Proposal Writing, Research Paper Writing)
- **Faculty Andragogy Skill Development:** A total of 26 programs are conducted and total of 817 faculties benefited.

### **g. Activities during Lockdown period:**

- Online learning started from last week of March 2020 and continued till today. Apart from the curriculum, faculty and students were provided online learning platform such as Coursera, Edx, Eduskills, NASSCOM Future Skills, IEEE Swebok at free of cost.

- The Institute has started the Online Learning cluster at Sangareddy by providing laptops and internet facility for smooth online learning. Nearly 20 students are coming to this center for their online learning.
- The management has distributed Tablet Computers, Smart phones, Internet Dongles for the identified & needy students to continue their online learning.
- Distribution of groceries to the people in need.
- Distribution of sanitizers, face masks, gloves to Government Servants.

**Students Front:**

**a. Examination Results:**

**2018-22 batch (final result):**

Branch	Admitted		Registered	Passed	Failed	Pass %
	Dir.	LE				
<i>BME</i>	20	8	28	24	4	85.71
CHE	51	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	115	26	141	117	24	82.97
CIVIL	120	12	130	95	35	70.37
PHE	16	0	16	11	5	68.75
Over all	856	180	1276	1094	182	85.73



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

Induction and Orientation has been conducted from 02/12/2021 to 09/12/2021 for the academic year 2021-22

**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 2021-22:**

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
332	137	84	102

**New faculty recruited / relieved during 2021-22**

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	25	332	10	02	98

**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 2021-22:

Dept.	No.of Journal Papers	No.of conference papers	No.of W/s, Seminars, FDPS, webinars attended	No.of W/s, Seminars, FDPS, webinars conducted	Online verified certifications
ECE	15	35	82	09	80
CSE	14	42	1036	08	640
EEE	3	24	187	10	75
MECH	12	21	198	05	44
CIVIL	6	28	35	08	128
CHE	10	29	499	13	109
BME	1	0	86	05	88
IT	6	32	260	01	174
PHE	5	18	32	00	04
BS&h	15	22	138	00	46
MBA	1	2	79	06	170
	<b>88</b>	<b>253</b>	<b>2632</b>	<b>65</b>	<b>1558</b>

### Faculty Development Programmes Conducted

S. No.	Program/Workshop
1.	Workshop on VOICE - Vishnu Online Interactive Colloquium on Education
2.	Workshop on Presentation skills of Faculty
3.	Workshop on Instructional Design and Analytics for Teaching Excellence (IDEATE)
4.	Workshop on Moodle for effective course management and analytics
5.	Workshop on-Moodle for effective course management and analytics
6.	Workshop on Getting off to a Good Start on Research
7.	Workshop on Getting off to a Good Start on Research
8.	Workshop on Product development by Sri Panduranga Rao

9.	Workshop on Vishnu Educational Development and Innovation Centre Teaching Conclave
10.	Workshop on Mentoring Students Effectively
11.	workshop on-Instructional Design and Analytics for Teaching Excellence (IDEATE)
12.	Online FDP On Applications in Medical Image & Signal Processing
13.	workshop Integrating Research Portfolio into CN
14.	webinar on inventions and business opportunities through(IoT) programming
15.	2nd international conference on recent advancements in geo-Structural Confluence

## Sponsored Projects and consultancy activities during 2021

### Ongoing Sponsored Projects

<b>S.No</b>	<b>Project Title</b>	<b>Principal Investigator</b>	<b>Department</b>	<b>Grant Support Agency</b>	<b>Budget Sanctioned (Rs in Lakhs)</b>	<b>Project Duration</b>
<b>01</b>	Design and development of a wearable device for motion assistance in paraplegic patients	PI- Dr.K.Prabhakar Rao , CO-PI- Dr.I.A.Pasha CO-PI- Mr.B.Anil Kumar	ECE	DST	57,772,75 /-	3 years (29-03-2020-29-03-2023)
<b>02</b>	Design and Development of On-chip NaadiParikshan Autonomous Healthcare Monitoring System Using Wireless Sensor Networks	Dr.Sanjay Dubey	ECE	DST	63.82 (To be Released)	3 years (2018 - 2021)
<b>03</b>	Development of Open Source Brain Computer Interface Toolbox and Large Scale Public	Dr.Sanjay Dubey	ECE	DST	59.1 (To be Released)	3 years (2018 - 2021)

	Database of EEG Data for BCI Research					
<b>04</b>	Identification and Demonstration of Cost-Effective Technologies to Maximize Habitat Energy Self Sufficiency	Dr.Vijay Kumar	Civil Engg	DST	96.35	3 Years (Jan 2018 - Jan 2021)
<b>05</b>	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
<b>06</b>	Wearable Circular Polarized Antennas for Military Personal Application	Dr.Sanjeeva Reddy	ECE	DST	44.9	3 years (Nov 2016 - Nov 2020)
<b>07</b>	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)
<b>08</b>	Design and Develop a Priority based converter for Micro grid	Dr K Rayudu	EEE	JNTUH/TEQIP-III	3 lakhs	2019-20
<b>09</b>	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

	metals in Waste water.					
10	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
11	Fund for improvement of S&T infrastructure (FIST)	Dr. G. B. Radhika HOD, Chemical Engg.	Chemical Engg	DST	50	5 years (Nov 2015 - Nov 2020)
12	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)

**STTP (Short Term Training Programs) fund received from AICTE during 2019-20**

<u>S.No</u>	<u>File No</u>	<u>Name of the scheme</u>	<u>Funding Agency</u>	<u>Title of the Proposal /project</u>	<u>Name of the PI and Co-PI</u>	<u>Duration of the project (in years)</u>	<u>Date of Starting</u>	<u>Date of Ending</u>	<u>Total Sanctioned Amount (in Rs.)</u>
1	34-65/166/RIFD/STTP/Policy-1/2018-19	STTP	AICTE	Recent developments and Entrepreneurship in sustainable green energy technologies and smart grids	Dr S Saravanan, Professor, EEE	6 months	2020	2020	3,97,333/-
2	34-67 / 66/FDC/FDp /p-1. dated on 30.06.2020	FDP	AICTE	Electric Vehicle (EV) Components, Technologies , Challenges and Future Development .	Dr M Prameela, Professor, EEE	6 months	2020	2020	4,84,500/-
3	Ref. No. 34-65/167/RIFD/STTP	STTP	AICTE	Internet of Things (IoT)	Dr. R. Pitchai	7 month	2020	2020	1,69,666/-

	/Policy-1/2018-19 Dated 12.12.2019			based Green Energy Systems		s			
4	34- 65/212/FDC/STTP/ Policy-1/2019-20	STTP	AICTE	Design of Experiments in Engineering	Dr. A. Varun, Associat e Professo r, Mechani cal Engineer ing Departm ent	6 Month s	2020	2021	4,74,83 3
5	34-65 / 57/RIFD/FDP/Pol icy-1/2017-2018 Dated 10-05-2019	FDP	AICTE	Application of CFD in Process Industries	DR G B Radhika Dr. B V S Praveen Dr G Srinivas	6 month s	2019	2019	4,25,00/ -

### Projects applied for funding

<b>S.No</b>	<b>Project Title</b>	<b>Principal Investigator</b>	<b>Department</b>	<b>Grant Support Agency</b>
1	Ultrasound-assisted synthesis of visible light active metal-organic frameworks (MOFs) for sono-photocatalytic degradation of azo dyes	Dr.B.Bhaskar	Chemical Engg	SERB - TARE 2020
2	Portable hand operated domestic water purification device based on hand pump jet cavitation and ceramic filter	Dr.B.Bhaskar	Chemical Engg	IIT-Roorkee, DIC, Research to Product (R2P) Scheme (2020-2021)
3	Design and development of a physical disinfection system for end use food products	Dr.B.Bhaskar	Chemical Engg	BIRAC-PACE
4	Design and development of a surface floated type disinfection cum aeration system for aquaculture industry based on hydrodynamic cavitation	Dr.B.Bhaskar	Chemical Engg	BIRAC-PACE
5	Intensification of Textile Dye Wastewater Treatment Using Cavitation Technique and Visible Light Active Metal Organic Framework Photo-catalysts	Dr.B.Bhaskar	Chemical Engg	AICTE-RPS
6	Development Of Prototype Hydrogen Generator For Fuel Cell Applications Using Ethanol-water	Dr.M.Mallaiah	Chemical Engg	SERB

7	Effective energy generation and reduction of CO2 emissions from biogas production in municipal solid waste treatment plant	Dr.G.Srinivas	Chemical Engg	DST-waste mangement
8	Development of Low cost eco friendly Adhesive from Waste Expanded Polystyrene Sustainable Management Approach	Dr.Appala Naidu	Chemical Engg	DST-waste mangement
9	Anti Fouling of Nanofiltration membranes applied to pharmaceutical and food industrial effluent	Dr.B.Venkata swamy	BSH	DST-waste mangement
10	Converting Bio-degradable waste into organic fertilizer and track by applying Machine learning and Blockchain Techniques	Dr, K.DasaradhaRamaiah	IT	DST-waste mangement
11	Brain tumor segmentation and prediction Using novel Deep Learning algorithm with densely integrated CRF (Conditional Random Field) for 3D Magnetic Resonance Images (MRI)	Dr. R. Pitchai	CSE	AICTE-RPS
12	AICTE - International Conference	Dr. R. Pitchai	CSE	AICTE
13	An Embedded Assistive Monitoring system for pranayama to survive from COVID Pandemic	PI: Chinnaiah M C, Sanjay Dubey, Nagaraju	ECE	DST
14	An Assistive System for Monitoring the Rhythmic Vedic Chanting and Pranayama	PI: Chinnaiah M C, Sanjay Dubey, I A Pasha, Kausalya Nandan, Nagaraju	ECE	DST
15	Design of Smart and Green Urban Solid Waste Management System for Sustainable Environment	PI: T.Vasudeva Reddy, CO PI: M.C.Chinnaiah, K. Purna Chand B.Venkataswamy	ECE	DST
16	DEVELOPMENT AND FABRICATION OF SIZE MINIATURIZED CIRCULAR	PIs: Dr. B R Sanjeevareddy, Dr. I.A.Pasha	ECE	ISRO-AO
17	Yoga based children psychology analysis and hardware implementation	PI: T.Vasudeva Reddy, CO PI: Shaik shafi	ECE	DST
18	Alternative Augmented communication device for cerebral palsy using gyroscope and mobile application	PI:M.Bhanu Prakash	ECE	DST-TIDE
19	Development of IoT Based Electromagnetic Non-Contact Viatl Sign Monitoring System for COVID19 Pandemic Patients	PI:Dr.B.R.Sanjeev Reddy Co-PI:Dr.I.A.Pasha, R.Anirudh Reddy, Mr.SanjayNekk	ECE	USISTEF-Covid19 Ignition Grants



		anti, Dr.Guru Subramanyam		
20	Development of an Assistive System for Physician to early detection of mental health illness residing in rural and urban community	PIs: Dr. Apurva Kumari , Dr. Chinnaiah M C	ECE	DST
21	Monitoring and Analysis of Mother and Fetal Behaviors: Scientific Responses and Perspectives towards Vedic Chanting	PI: Dr. Apurva Kumari, CO-PIs: Dr. Chinnaiah M C ,Mrs. Vandana Ch	ECE	DBT
22	A Companion based Tether Robot for Elder People Personal Mobility Assistive System in Indoor Environment	PI: Dr. M.C.Chinnaiah, CO PI: Dr. I. A. Pasha Dr. Sanjay Dubey Dr Shaik Shafi	ECE	DST-TIDE
23	Design & Development of Assistive System for Protective Measurement of Elderly People to Avoid Accidents in Wash room	PI-Dr. Chinnaiah M C , CO-PIs: Dr.Sanjay Dubey, Dr.D.Harikrishna Dr. Apurva Kumari	ECE	DST-DDP
24	Investigation of Convective Heat Transfer Characteristics of Metal/Metal oxide-Fiber-Water Hybrid Nanofluid and comparing the performance characteristics with Metal and Metal oxide Nanofluids	PI: Dr. V. Murali Krishna Co-PI: Dr. M. Sandeep Kumar	Mechanical Enigneering	AICTE – RPS
25	Performance Evaluation of DGS based CP multi band antennas for SDR application	PI: Dr Sanjeev reddy, Co-PI: Mrs Jayshree Das	ECE	AICTE – RPS
26	Design of Na, K, Ag -ion Solid state batteries using Nano composite Polymer Electrolytes	PI: Dr Rayudu Co-PI: Lakshmi Narsaiah	BSH & EEE	AICTE-RPS

<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				
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## Patents

	2020			2021		
	Patents filed	Patent Published	Patent Granted	Patents filed	Patent Published	Patent Granted
BS&H	0	0	0	11	4	1
BME				1	1	
CHE	5	3		4	3	1
CE		1		5		
CSE	17	11	2	15	11	2
ECE	7	0	0	6	5	
EEE		6		3	3	
IT	5	5	0	2	2	
PHE	5	5		2	2	
ME	5	5	1	1	3	
MBA	0	0	0			
<b>Total</b>	<b>44</b>	<b>36</b>	<b>3</b>	<b>50</b>	<b>34</b>	<b>4</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:

Proposed Projects	Area
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.

	Added during 2021	Available as on date
Total Titles	0	12065
Total Volumes	0	75416
National and International Journals (Print version)	0	213
Magazines	0	54
Online Journals (e-Journals)	2012	11415

- 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: 1949.

**CC cameras:** 161 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) Strength enhancement in existing courses:**

- B.Tech. CSE ( DS) – 60 to 120
- B.Tech. CSE ( AI&ML) 60 to 120

**c) 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. (Data Science ) curriculum**

Collaboration with Novartis for B.Tech. CSE (Data Science) curriculum development

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