

ANNUAL QUALITY ASSURANCE REPORT (AQAR) 2017 - 2018

Submitted to



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

P. O. Box. No. 1075, Nagarbhavi, Bangalore - 560 072 India

Submitted by



SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

(Approved by AICTE, Programs accredited by NBA, New Delhi and Affiliated to JNTUA, Anantapur)

Sree Sainath Nagar, A. Rangampet, Chandragiri Mandal, Chittoor Dist., Andhra Pradesh – 517 102

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www.vidyanikethan.edu

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

PART – A

1. Details of the Institution

1.1 Name of the Institution

Sree Vidyanikethan Engineering College (Autonomous)

1.2 Address Line 1

Sree Sainath Nagar, A.Rangampet

Address Line 2

Chandragiri Mandal, Chittoor District

City/Town

Tirupati

State

Andhra Pradesh

Pin Code

517102

Institution e-mail address

svecp@vidyanikethan.edu

Contact Nos.

0877 - 3066900, 3066901
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Name of the Head of the Institution:

Dr. P.C. Krishnamachary

Tel. No. with STD Code:

0877-2236600

Mobile:

+91-9160999961

Name of the IQAC Co-ordinator:

Dr. B. Narendra Kumar Rao

Mobile:

+91-9700688450

IQAC e-mail address:

iqac@vidyanikethan.edu

1.3 NAAC Track ID (For ex. MHCOGN 18879) APCOGN80451

1.4 Website address:

http://svec.education

Web-link of the AQAR:

http://svec.education/wp-content/programs/IQAC/AQAR-Report-2017-18.pdf

1.5 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.11	2013	5 Years
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

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

02-07-2013

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

2017-18

1.8 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 submitted on 30/12/2015
- ii. AQAR submitted on 31/12/2015
- iii. AQAR submitted on 27/09/2017
- iv. AQAR submitted on 10/10/2017

1.9 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)

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

1.10 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.11 Name of the Affiliating University (for the Colleges)

Jawaharlal Nehru Technological University
Anantapur (JNTUA), Ananthapuramu, A.P.

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc:

Autonomy by State/Central Govt. / University

University with Potential for Excellence UGC-CPE

DST Star Scheme	<input type="text" value="---"/>	UGC-CE	<input type="text" value="---"/>
UGC-Special Assistance Programme	<input type="text" value="---"/>	DST-FIST	<input checked="" type="checkbox"/>
UGC-Innovative PG programmes	<input type="text" value="---"/>	Any other (<i>Specify</i>)	<input type="text" value="TEQIP-II"/>
UGC-COP Programmes	<input type="text" value="---"/>		

2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="5"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="5"/>
2.3 No. of students	<input type="text" value="2"/>
2.4 No. of Management representatives	<input type="text" value="1"/>
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="1"/>
2.8 No. of other External Experts	<input type="text" value="1"/>
2.9 Total No. of members	<input type="text" value="18"/>
2.10 No. of IQAC meetings held	<input type="text" value="4"/>

2.11 No. of meetings with various stakeholders:	No.	<input type="text" value="1"/>	Faculty	<input type="text" value="3"/>
	Non-Teaching Staff	<input type="text" value="1"/>	Students	<input type="text" value="3"/>
	Alumni	<input type="text" value="1"/>	Others	<input type="text" value="4"/>

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.	02	International	01	National	01	State	1	Institution Level	4
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(ii) Themes

Research, Innovation & Entrepreneurship

2.14 Significant Activities and contributions made by IQAC

- Scrutiny and recommendation of Research proposals for internal funding **(Annexure-1)**
- Recommendation for establishment of 8 Research centers **(Annexure-2)**
- Promoting experiential learning through technical model exhibition.
- Audit of departments was undertaken and remedial measures were suggested
- Monitoring of quality of faculty competence through Faculty performance Appraisals.
- Induction Program in line with the AICTE Model is suggested for implementation from 2018-19
- Monitoring the implementation of courses introduced in 2016 regulations during 2017-18
- Add-on courses were conducted for students
- Research & Semi-technical talks were organized for faculty members
- Activities of PMKVY; SIEMENS tSDI were monitored
- Student Counselling and mentoring were undertaken
- Activities on Placement, training and Entrepreneurship were conducted
- Apprised to Governing Body on all activities of the Institution
- Conduction of events related to gender, National Important Days, Environment.
- Automation of new modules in campus ERP
- Faculty Self appraisal system for monitoring quality and further development.
- Orientation program in line with the AICTE Model with areas Physical activities; Creative Arts; Universal Human Values; Literature and computer proficiency; Lectures by Eminent People; Local Area and Social Awareness; Familiarization to Department/Branch & Innovations has been approved by Academic Council and shall be implemented for 2018-19 I B.Tech Students.

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
1. Preparatory activities for implementation of AICTE Model Curriculum 2. Promoting students experiential learning 3. Internal funding for research 4. Augmentation of research infrastructure 5. Continuous Student Development towards career and higher education 6. Event Management through ERP software 7. Incentivizing faculty and student research outcomes	YES, Attained

2.16 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

The Governing Body approved the AQAR for the year 2017-18 for submitting it to NAAC.

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	3	-	3	-
PG	9		9	-
UG	8		8	-
PG Diploma	-		-	-
Advanced Diploma	-		-	-
Diploma	-		-	-
Certificate	-		-	-
Others (Student Training)	-		-	-
Total	20	-	20	28
Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

**Choice Based Credit System/Core / Professional Elective / Interdisciplinary courses/
Open Electives/GAP Year/ Introduction of MOOC**

(ii) Pattern of programmes: The Institution follows semester system for B.Tech and P.G. Courses.

Pattern	Number of programmes
Semester	17
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.

The revision of Curriculum and Academic Regulation is due and the College is successfully implementing courses for 2017-18 as per SVEC 2016 Regulations. Induction Programs for I B.Tech students as per AICTE Model shall be executed for the Academic Year 2018-19.

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

Advanced Research Centre: The Management has accorded approval to set-up the following Research facilities to augment research activities in advanced domains of Engineering and Technology. Which were inaugurated on 19th March, 2018

Sl. No.	Name of the facility	Team Leader	Budget sanctioned (in Lakhs)
1.	Antenna Simulation Lab	Dr. V. R. Anitha	15.00
2.	Data Analytics Lab	Dr. O. Obulesu	15.00
3.	Industrial Automation Lab	Dr. M. Saravanan	6.00
4.	Bio Signal Lab	Dr. Y. Dileep Kumar	7.25
5.	Water & Environment Research Centre	Dr. M.V. Subba Reddy	20.00
6.	Micro machining Lab	Dr. K.C. Varaprasad	25.00
7.	Geotechnical Research Lab	Dr. O. Eswara Reddy	20.00
8.	Cyber Security and Cryptology Lab	Dr. M. Naresh Babu	13.00
Total			121.25

CRITERION – II

2. TEACHING, LEARNING AND EVALUATION

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	461	370	54	37	--

2.2 No. of permanent faculty with Ph.D. 124

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
	72	-	09	-	02	-	-	-	83	-

2.4 No. of Guest and Visiting faculty and Temporary faculty --- 04 ---

2.5 Faculty participation in conferences and symposia (2017-18):

No. of Faculty	International level	National level	State level
Attended Seminars/ Workshops	77	530	187
Presented papers	114	24	0
Resource Persons	09	12	06

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

- The course transaction was monitored through Faculty Course Assessment Report (FCAR) and attainment of Course outcomes, program outcomes and Program specific outcomes was recorded. **(Annexure – 4)**
- Teaching-Learning assessment and monitoring through ERP - NIVA
- The threshold and beyond the concepts in the syllabus were given as self learning topics to the students through the teaching plan.
- The students continuously interacted with the Faculty during tutorial sessions and beyond the regular class work as part of academic mentoring.
- Seminars and technical association activities were organized for the students in new paradigms of domain and cross domain to promote self learning
- Teaching some of the courses with models, simulation and prototypes contributed to students experience in learning.

- Student feedback on teaching quality was considered as an useful input for quality for teaching-learning
- The student survey on program educational objectives, program outcomes and curriculum was conducted as inputs for curriculum development
- Courses in labs, seminar and project at the undergraduate level were conducted to foster student peer and participative learning
- IITM – QEEE sessions IIT Madras has recognized the College as ‘**Best College Partner**’ for QEEE ‘Direct-to-Student Programme’. This programme offers live lectures/Tutorials/Virtual Labs from IIT Madras. The details of QEEE Live Classes are presented below:

QEEE – (2017- 18 Odd Semester)

S. No.	Offering Course by QEEE	Name of the IIT Faculty	Relevant Course in SVEC Syllabus	Local Faculty Name	Year & Branch	No. of Student Beneficiaries
1.	Programming Style - Programming and Data Structures	Prof. Rajib Mall, IIT Kharagpur	Data Structures (16BT30502)	Dr. M. Naresh Babu	II B.Tech. I Sem. (CSSE-A)	57
2.	Beams - Design of Steel Structures	Prof. S R Satish Kumar, IIT Madras	Steel Structures (14BT70101)	Mr. V. Mahesh	IV B.Tech. I Sem. (CE-A)	66
3.	Operating Systems Overview - Operating Systems	Prof. Sandip Chakraborty, IIT Kharagpur	Operating Systems (14BT51501)	Ms. B. Sangamithra	III B.Tech. I Sem. (CSE-D)	64
4.	Baseband Communication - Digital Communication Techniques	Prof. Arun Pachai Kannu, IIT Madras	Digital Communications (14BT50402)	Mr. Sai Raja Narendra	III B.Tech. I Sem. (ECE-A)	71
5.	Constitution of Alloys and Phase Diagrams - Engineering Material and Metallurgy	Prof. Sushanta Kumar Panigrahi, IIT Madras	Engineering Metallurgy (16BT30301)	Dr. J.S. Binoj	II B.Tech. I Sem. (ME-A)	63
6.	Basic Concepts and First Law of Thermodynamics - Engineering Thermodynamics	Prof. P.M.V. Subbarao, IIT Delhi	Thermodynamics (16BT30305)	Dr. P. Satchuthanathan	II B.Tech. I Sem. (ME-C)	75
7.	MOS Transistor Principle - Digital VLSI	Prof. Deleep Nair, IIT Madras	Digital IC Applications (14BT50403)	Dr. N. Vithyalakshmi	III B.Tech. I Sem. (ECE-B)	70
8.	Design with OPAMP - Linear Integrated Circuits	Prof. Hitesh Shrimali, IIT Mandi	Linear & Digital IC Applications (14BT51003)	Mr. G. Sreenivasulu	III B.Tech. I Sem. (EEE)	56
Total						522

QEEE – (2017- 18 Even Semester)

S.No.	Offering Course by QEEE	Name of the IIT Faculty	Relevant Course in SVEC Syllabus	Local Faculty Name	Year & Branch	No. of Student Beneficiaries
1.	Storage Management - Operating Systems	Prof. Sandip chakraborty, IITK	Operating Systems	Ms. E. Sandhya	II B.Tech. II Sem. (IT-A)	57
2.	Limit State Design of Reinforced Concrete Beams - Design of Reinforced RCC Structures	Prof. Amit Shaw, IIT Kharagpur	Reinforced Cement Concrete structures	Mr. V. Mahesh	III B.Tech. II Sem. (CE-B)	74
3.	Software Aspects - Microprocessor and Microcontroller - 8086	Prof. Venkatesh TG, IITM	Microprocessors & Microcontrollers	Mr. B. Subba Reddy	III B.Tech. II Sem. (EEE-D)	60
4.	Discrete Time signals - Digital Signal Processing	Prof. David Koilpillai, IITM	Digital Signal Processing	Dr. G. Arul Elango	III B.Tech. II Sem. (ECE-A)	73
5.	Gas Turbines - Thermal Engineering -1	Prof. Sreedhara Sheshadri, IITB	Thermal Engineering-II	Mr. N.Vishwanath Reddy	II B.Tech. II Sem. (ME-B)	63
6.	Limit State Design of Reinforced Concrete Columns- Design of Reinforced RCC Structures	Prof. Amit Shaw, IIT Kharagpur	Reinforced Cement Concrete structures	Mr. M. Gokulnath	III B.Tech. II Sem. (CE-B)	64
7.	Runtime Environments - Principles of Compiler Design	Prof. Supratim Biswas, IITB	Compiler Design	Mr. M. Ismail	III B.Tech. II Sem. (CSSE-A)	56
8.	Process Management - Operating Systems	Prof. Chester Rabeiro, IITM	Operating Systems	Mr. P.Basha	II B.Tech. II Sem. (IT-B)	59
9.	Power System Engineering	Prof. Debapriya Das IIT Kharagpur	Power Systems	Mr.D.Praveen Kumar	III B.Tech. II Sem. (EEE-D)	03
Total						509

➤ IITB - Spoken Tutorial program

Spoken Tutorial Project (STP) - NMEICT - IIT Bombay: The Institution has conducted training on C and Java under NMEICT – IIT Bombay during 2017-18. In total 320 students were certified in C, C++ and Java Programming.

Name of the FOSS	Branch	Date of Event Conducted	No. of Students Attended	No. of Students Certified
C++	IT	09-02-2018	64	62
C	IT	09-02-2018	47	25
C	IT	10-02-2018	31	28
C++	IT	09-03-2018	8	7
C	IT	09-03-2018	30	28
JAVA	IT	09-03-2018	51	27
C	CSSE	10-03-2018	82	72
C	CSSE	24-03-2018	93	71
Total			406	320

2.7 Total No. of actual teaching days during this academic year

182

2.8 Examination/Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Improvements in the implementation of the following:

- Question papers are designed using Bloom's levels and evaluated using OBE.
- An indigenous examination system was built as module in NIVA ERP. All activities of the examination section were integrated into NIVA ERP to keep track of the students' data from the day of their registration till graduation. It facilitated online storage and retrieval of the data.
- Using the registration details, seating plans and Hall-tickets generation, posting of attendance and malpractice details, entry of encoding details of answer books, Marks consolidation, Reports generation for Results Committee, Marks Memos, Provisional Pass Certificates and Consolidated Grade Sheets generation were undertaken through NIVA ERP.
- Question bank for each subject was prepared by collecting few sets of question papers from subject matter experts for random generation of question papers.
- For each subject, three sets of question papers are generated, from the question bank, just one hour before the commencement of the examination. Out of which, one set of question paper is selected by the controller of exams and required number of photocopies are made and distributed to the students in the examination halls just five minutes before the commencement of the examination to ensure confidentiality.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

173	173	--
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2.10 Average percentage of attendance of students

86%

2.11 Course/Programme wise distribution of pass percentage:

(2018 passed out batch)

B.Tech:

Branch	Total appeared	Total passed	Distinction	1 st Class	2 nd Class	Pass Percentage
CE	139	124	91	29	4	89.21
EEE	279	261	190	64	7	93.55
ME	208	200	166	34	0	96.15
ECE	273	255	203	46	6	93.41
CSE	246	227	153	66	8	92.28
EIE	104	88	53	31	4	84.62
IT	107	92	66	25	1	85.98
CSSE	96	77	54	21	2	80.21
TOTAL	1452	1324	976	316	32	Average 91.18

M.Tech:

Branch	Total appeared	Total passed	Distinction	1 st Class	Pass Percentage
CS	11	11	11	-	100
EPS	13	13	12	1	100
SE	4	4	4	-	100
DECS	7	7	7	-	100
VLSI	15	15	15	-	100
CMS	7	7	7	-	100
CNIS	3	3	3	-	100
TOTAL	60	60	59	1	Average 100

MCA:

Branch	Total appeared	Total passed	Distinction	1 st Class	Pass Percentage
MCA	40	40	37	3	100

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

The initiatives and measures taken-up in Teaching – Learning process had resulted in improved:

1. Pass percentage of students
2. Learning outcomes
3. Employability of students
4. Progression to Higher Studies and Research

Evaluation BY IQAC:

- The feedback of students on teachers which is an important component of faculty performance evaluation was thoroughly studied and remedial measures such as counselling, remedial training of poor performers were suggested.
- The attainment of COs, POs and PSOs is done after the completion of course. Remedial sessions are carried out during the course based on performance in Formative Tests and Internal exams.
- The data pertaining to placement of students, their progression to higher education and entrepreneurship were studied and inputs were given in cases where improvement is necessary in the recommendations of Academic Audit.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	34
UGC – Faculty Improvement Programme	133
HRD programmes	2
Orientation programmes	5
Faculty exchange programme	1
Staff training conducted by the university	0
Staff training conducted by other institutions	1
Summer / Winter schools, Workshops, etc.	190
Others	360

2.14 Details of Administrative and Technical staff (2017-18)

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	130	--	09	--
Technical Staff	67	--	35	--

CRITERION -III

3. RESEARCH, CONSULTANCY AND EXTENSION

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

The following activities were implemented by the institution based on the recommendations of IQAC

- Academic Experts visited periodically to mentor research interests of the research competent faculty members in various engineering disciplines. **(Annexure-5)**
- Research clusters are active and thrust areas have been pursued **(Annexure-6)**
- Department level research talks by the members of the faculty were organized **(Annexure-7)**
- Workshops and seminars on advanced areas of engineering domain were organized **(Annexure-8)**
- Advanced laboratories for the benefit of faculty and students to carry out research were established **(Annexure-2)**
- Subscription to research journals was made to facilitate literature survey of faculty and students

No. of National Journals : 194

No. of e-Journals : 2929

- The members of faculty were given Academic leave and financial assistance to pursue doctoral degree.
- Two International Conferences were organized promoting research culture in the institution.
- Faculty members were sponsored for presenting papers in reputed conferences.
- Incentives were given to the faculty for their Research outcomes

S.No.	Name of the Faculty	Funded Projects	Incentive Amount (Rs.)
1	Mr. K. Ayyappa Swamy	TIDE-DST	50,000
2	Dr. N. Padmaja	ISRO-RESPOND	31,000
3	Dr. G. Sasi Kumar	DST – CSRI	33,500
TOTAL			1,14,500

List of Interactions with Research Advisors :

S. No	Name of the Expert	Designation and Organization	Dates of Interaction	Duration (in hours)	Event Details
1	Dr.Lazar Mathew Advisor – Research	Former Director, DRDO	19 th to 23 rd June, 2018	23	Research Advisory & Mentoring
			24 th Apr. to 28 th April 2018	25	
			18 th to 20 th March. 2018	14	
			20 th to 24 th Feb. 2018	26	
			23 rd to 29 th Jan. 2018	22	
			26 th to 30 th Dec. 2017	22	
			26 th to 30 th Nov. 2017	20	
			17 th -18 th & 25 th - 27 th Oct. 2017	20	
			23 rd to 27 th Sep. 2017	20	
			28 th Aug. to 1 st Sep. 2017	22	
			21 th to 26 th July, 2017	22	
2	Dr. Madhusudan Atre, Adjunct faculty	CEO & Founder, Vegashakti Consultants, Bangalore Former Country Head – AMD India.	12 th Nov. 2017	6	Research Advisory & Mentoring
			12 th Sep. 2017	6	
			16 th Aug. 2017	6	
			17 th July. 2017	6	
3	Dr. Prahlada, Professor Emeritus	Padma Shri Awardee, Advisor, S-VYASA, Former Distinguished Scientist & CC R&D DRDO, Former Director, DRDL.	8 th June, 2018	6	Research Advisory & Mentoring
			7 th Apr. 2018	6	
			31 st Jan – 1 st Feb 2018	10	
			20 th Nov. 2017	6	
			22 nd Aug. 2017	6	

3.2 Details regarding major projects

(Rs. in lakhs)

	Completed	Ongoing	Sanctioned	Submitted
Number	02	08	01	16
Outlay in Rs. Lakhs	29.0	170.65	54.13	425.14

3.3 Details regarding minor projects

(Rs. in lakhs)

	Completed	Ongoing	Sanctioned	Submitted
Number	04	09	01	04
Outlay in Rs. Lakhs	14.8	30.84	4.0	15.50

3.4 Details on research publications

	International	National	Others
Peer Review Journals	159	--	--
Non-Peer Review Journals	50	--	--
e-Journals	143	--	--
Conference proceedings	95	9	--

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 (Rs. In lakhs)	Received (Rs. In lakhs)
Major projects	2017-18	DST-TIDE	54.13	17.88
Minor Projects	--	INUP	4	4
Interdisciplinary Projects	--	--	--	--
Industry sponsored	(SIEMENS, TSDi, CM's Center of Excellence – 60 laptops)			
Projects sponsored by the University/ College	2017-18	SVET	0.10	0.10
Students research projects <i>(other than compulsory by the University)</i>	--	--	--	--
Any other(Specify)	2017-18	SVET	121.25	121.25
Total	--	--	179.48	143.23

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	2	-	-	-	-
Sponsoring agencies	AICTE/DST-SERB	-	-	-	-

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	<input type="text" value="Rs.21.88 lakhs"/>	From Management of University/College	<input type="text" value="Rs 121.25 lakhs"/>
Total	<input type="text" value="Rs. 143.13 lakhs"/>		

3.16 No.of patents received this year

Type of Patent		Number
National	Applied	4
	Granted	1
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
18	9	5	3	--	--	03

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

The extension activities were planned and conducted which were relevant to the program domain and contribute to the student holistic development. Also the technical associations of the Departments have conducted activities in the college neighbourhood as part of Institutional Social Responsibility

➤ National Service Scheme (NSS) (Annexure-9)

National Service Scheme (NSS) unit has on its rolls 100 student volunteers who actively participate in service oriented activities.

Regular Camps such as Blood Donation Camp, Open Defecation free survey, Workshops on the days of National Importance were organized by the NSS Unit during the academic year 2017-18. The following Regular Camps were organized by the Unit:

S. No.	Name of the Event	Venue	No. of Volunteers	Date
1	Vanamahothsavam -Mass Tree Plantation	Bandarla Palli (Adopted Village)	80	08-07-2017
2	Swachh Pakhawad		50	06-08-2017
3	NSS Foundation Day	Sree Vidyanikethan Engg. College	80	12-09-2017
4	Awareness and Preventive Education Program on Smoking-Drinking And Drugs		80	24-10-2017
5	Open Defecation Free Survey	Ramireddypalli, Ithepalli, Kotala	30	30-12-2017
6	International Women's Day	Sree Vidyanikethan Engg. College	60	08-03-2018
7	Blood Donation Camp		50	19-03-2018

Special Camp

50 NSS students participated in the NSS special camp organized from 1st March, 2018 to 7th March, 2018. The day-to-day activities during the special camp were as follows:

Day	Activity of the Day	No. of Volunteers participating	Date
1	a. Inauguration of 7-Day Special Camp b. Identify Needs, Problems and Resources of the Village.	50	01-03-2018
2	Organized Sessions for School students and Villagers separately. The sessions focused on: <ul style="list-style-type: none"> Cleanliness and healthy habits practices. Display of Posters over the Village about Water Conservation 	50	02-03-2018
3	The following measures were taken by NSS Team of Volunteers on "SWACHHA BHARATH": <ul style="list-style-type: none"> Cleaning of village area. Campaigning on Usage of Toilets. 	50	03-03-2018
4	Awareness programme for uneducated women by the Girl volunteers about social rights.	50	04-03-2018
5	Awareness Programme to improve the status of Girl Child in Society.	50	05-03-2018
6	"Environment Enrichment and Conservation" programme: <ul style="list-style-type: none"> Tree Plantation Various practices to Prevent Soil Erosion. 	50	06-03-2018
7	Construction of Dust Bins in Village Area, Distribution of Books and stationery and valedictory	50	07-03-2018

Blood Donation Camp

As part of the Annual Day Celebrations of Sree Vidyanikethan Engineering College, Blood Donation Camp was organized in the campus on 19th March, 2018. About 630 donors came forward enthusiastically for this noble gesture.

➤ Outreach Activities :

a. Digital Literacy:

An outreach program was organized by Department of Information Technology, Sree Vidyanikethan Engineering College, A. Rangampet at Z.P Girls High School, Chandragiri on January 04, 2018. About 60 students participated actively and made it a grand success. The exuberant students were enthralled by the abundance of knowledge they gained and were thankful to the resource persons for the programme conducted for their benefit.

b. Open Defecation Free Survey:

The event was held on 23rd December, 2017. 30 student volunteers and 6 members of faculty visited Ramireddypalli, Ithepalli and Kotala villages and collected data for survey which was posted in Swabhimaan Andhra App.

c. Off-Campus Outreach Certificate Programme:

The department of ECE conducted totally 3 Off-Campus online outreach Certificate Programmes under the aegis of Indian Institute of Remote Sensing (IIRS), Dehradun. The conducted programmes were: "UAV Remote Sensing and Applications" from 03-07-2017 to 07-07-2017, "Close Range Photogrammetry and Terrestrial Laser Scanning" from 08-01-2018 to 12-01-2018, and "Hyperspectral Remote Sensing and its Applications" from 19-02-2018 to 13-03-2018. The total number of beneficiaries were 107 students.

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	30.2 Acres		--	30.2 Acres
Class rooms	97		--	
Laboratories	139		--	
Seminar Halls	9		--	
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	--	66	Sree Vidyanikethan Educational Trust	66
Value of the equipment purchased during the year (Rs. in Lakhs)	Rs. 154.18 lakhs	Rs. 79.3 lakhs		Rs. 233.48 lakhs
Others	--	160.30 lakhs (Research Labs)		160.30 lakhs

4.2 Computerization of administration and library

The Institution is using an ERP-NIVA solution for complete automation of the academic, administrative and financial activities. Few modules are deployed and other Modules are under thorough testing for final deployment.

Faculty attendance, payroll and event management modules were implemented in the Academic Year 2017-18.

Library is automated with KOHA software.

4.3 Library Services:

	Existing		Newly added		Total	
	No.	Value (Rs)	No.	Value (Rs)	No.	Value (Rs)
Text Books	102135	2,81,28,492	9151	45,09,150	111286	3,26,37,642
Reference Books	18769	51,69,077	1264	6,22,836	20033	57,91,913
e-Books	--	--	37,250	--	37,250	--
Journals	191	3,66,628	200	4,12,103	--	--
e-Journals	2929	13,80,807	2929	13,97,049	--	--
Digital Database	--	--	75	--	75	--
CD & Video	--	--	--	--	--	--
Others (specify)	KOHA (Library Software) Rs. 2,24,000.00					

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	2029	1605	480 MBPS	-	200	36	188	0
Added	93	93	-	-	0	0	0	
Total	2122	1698	530 MBPS	-	200	36	188	0

Note : Figures represent the number of Computer Systems

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

Computers	: 2122
Internet Speed	: 530 MBPS
e-Journals	: 2929
(IEEE-ASPP) & POP	
NPTEL Videos are provided for faculty and students.	
Training programs on implementation of ERP - NIVA modules	
(Faculty attendance-2; Payroll - 2, Event Management-2)	
Demonstration of operations of new equipment/software conducted periodically.	

4.6 Amount spent on maintenance in lakhs :

i) ICT	Rs. 66.49 lakhs
ii) Campus Infrastructure and facilities	Rs. 771.58 lakhs
iii) Equipments	Rs. 860.32 lakhs
iv) Others	Rs. 4913.99 lakhs
Total :	Rs. 6612.39 lakhs

CRITERION – V

5. STUDENT SUPPORT AND PROGRESSION

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Monitoring the activities of different committees of the Institution undertaking the student support systems

- Continuous student training programs
- Increased number of companies for placements and internships
- Easy facilitation of services through campus ERP
- Mentoring through Mentor Mentee system
- Expert interaction on Career Guidance and personality development

5.2 Efforts made by the institution for tracking the progression

The Institution monitors the progression of students through

- Strong Mentor-Mentee system to check student progress
- Diagnostic tests
- Formative Tests
- Remedial and Reinforcement classes to improve learning outcomes among slow learners.
- Day-to-day evaluation strictly followed in laboratories.
- Advanced learners are encouraged to take up new and on-demand courses beyond curriculum and also to pursue higher education
- Faculty Course Assessment Report (FCAR) is recorded, which indicates attainment of Courses Outcomes, Program Outcomes and Program Specific Outcomes to study class performance and progression.
- Alumni Cell tracks the progression of students after the program (admissions in higher educational Institutions, placements in Industry and entrepreneurs)

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
5615	275	09	-

(b) No. of students outside the state

49

(c) No. of international students

13

Men	No	%	Women	No	%
	3735	63.31		2164	36.68

Last Year (2016-17)						This Year (2017-18)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
2802	620	186	2281	-	5889	2767	629	201	2299	03	5899

Demand ratio 1:2

Dropout % **Negligible**

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

- Conducted in-house training for students preparing for GRE, TOEFL & IELTS and even for CAT
- NPTEL videos are provided in Central Library for advanced learning.
- Financial support was proposed to aspiring students for civil services examinations.
- Online, add-on courses were organized by the Departments in training students towards competitive examinations.
- Library subscribes to current periodical and journals for updating current affairs

No. of students beneficiaries

1550

5.5 No. of students qualified in these examinations

NET	-	SET/SLET	-	GATE	72	CAT	8
IAS/IPS etc	-	State PSC	-	UPSC	-	Others	84

5.6 Details of student counselling and career guidance

The mentor-mentee system facilitates the counseling of all the students in academic and personal issues. Also teacher provide career guidance during counseling.

No. of students benefitted

5899

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
94	1324	959	87

5.8 Details of gender sensitization programmes

➤ Commemoration of Women's Day

International Women's Day was celebrated on 8th March, 2018 to recognize the active participation and equality of women required for peace and social progress and to acknowledge the contribution of women to international peace and security.

Smt. T. Vanaja, Executive Director, APSPDCL, Tirupati, the Chief Guest and Dr. S. A. Thasleema Sulthana, Director, Abhaya Kshethram Charitable Trust, Tirupati, the Guest of Honour graced the occasion. The Chief Guest Smt. T. Vanaja, stressed on the current situation of Women in the present society and elucidated work-life balance with her experiences. Guest of Honour Dr. S .A. Thasleema Sulthana, presented the service provided by Abhaya Kshethram Charitable Trust to the orphans and destitute and appreciated the contribution of many helping hands.

➤ An Invited Talk on “Road Safety, Security –Contemporary Issues regarding Women”

An invited talk was organized by Women Empowerment Cell on the “Road Safety, Security – Contemporary Issues regarding Women” by Smt. K. Sukumari, Deputy Superintendent of Police-Traffic, Tirupati on 27th November 2017.

Road Safety and Security of youth, especially girls have been a pressing issue for decades now. However, technological advancements have led to endangering scenarios challenging the safety of all, this point was emphasized upon to the students of I B.Tech simultaneously Smt. Sukumari provided useful information to cope with these challenges.

➤ An Expert Talk on “Gender Sensitization- Need of the hour”

An expert talk was organized under Women Protection Cell on the “Gender Sensitization –Need of the Hour”. Mrs.Sumera, Assistant Professor of Commerce, Department of Basic Sciences and Humanities, SVEC delivered a lecture on meaning and essentials of gender sensitization on 18th May, 2018.

5.9 Students Activities

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

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

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

Sports : State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount (Rs.)
Financial support from institution	119	Rs.1,01,71,970
Financial support from government	3243	Rs. 17,74,45,900
Financial support from other sources (AICTE / TEQIP-II)	GATE – 05	Rs.7,44,000
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: 3

CRITERION – VI

6. GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 State the Vision and Mission of the institution

Vision:To be one of the Nations's premier Engineering Colleges by achieving the highest order of excellence in Teaching and Research.

Mission: Through multidimensional excellence, we value intellectual curiosity, pursuit of knowledge building and dissemination, academic freedom and integrity to enable the students to realize their potential. We promote technical mastery of Progressive Technologies, understanding their ramifications in the future society and nurture the next generation of skilled professionals to compete in an increasingly complex world, which requires practical and critical understanding of all aspects.

6.2 Does the Institution has a management Information System

Yes, the Institution is using an ERP solution called Ez-School for automation. A new ERP solution ERP-NIVA is being developed and is under phase-wise deployment. Admissions, Students attendance, Students Feedback, implementation of academic calendar etc.. are under usage.

New Modules Faculty attendance, Payroll and event management were implemented during the academic year 2017-18.

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

6.3.1 Curriculum Development

- Adherence to Outcome Based Education Principles.
- Implementing Choice Based Credit Systems (CBCS).
- GAP Year concept introduced for UG programs for flexibility
- MOOC courses introduced for UG and PG programs.
- Internalizing the concepts of blooms taxonomy for student development and evaluation
- Periodic feedback on curriculum from stakeholders such as experts from academia, industry, alumni, students and senior teachers.

6.3.2 Teaching and Learning

The processes suggested by IQAC to promote quality of Teaching are and implemented for quality are:

1. Preparation of Academic calendar for the program for adherence and thorough implementation. **(Annexure – 11)**
2. Teaching plan for each course was made based on the number of instruction hours and given to the students
3. Pedagogical training was organized for junior faculty members
4. Modern teaching techniques like power point presentation, simulation through computers, NPTEL Video lectures in the domain areas of the concerned engineering Discipline, IITM QEEE lectures on current areas were practiced for effective teaching to promote students' better learning.
5. Concepts were taught with case studies, demonstrations, working models, and real time examples for core and elective courses.
6. The advanced learners were encouraged to undertake minor projects, literature collection on advanced areas in the respective engineering domain
7. Also Guest / Expert lectures were arranged for students in advanced areas of the respective engineering domain besides, Personality Development, career guidance to enhance their breadth of knowledge and learning outcomes.
8. Self – learning topics beyond the syllabus were indicated in the teaching plan for the benefit of the students in all the program courses.
9. Tutorial sessions and Assignments were utilized to discuss the extent of self – learning experience.
10. The laboratory sessions were conducted to verify the protocol of experiments, recording the data, analysis of data and writing the results and conclusions. Day-to-day evaluation of laboratory exercises was conducted to assess learning process.
11. The student feedback on faculty is taken twice in a semester to monitor the teaching process and the faculty with low feedback is advised to undertake FDPs and is counselled for enhanced performance. **(Annexure-10)**

Learning

The initiatives and measures taken-up in Teaching helped in better Learning to achieve improved:

1. Pass percentage of students
2. Learning outcomes
3. Employability of students
4. Progression to Higher Studies and Research

6.3.3 Examination and Evaluation

- Continuous evaluation
- Diagnostic tests
- Formative tests
- Summative tests
- Assignments
- Internal and external evaluation

6.3.4 Research and Development

- Establishment of research centres sponsored by the institute in the thrust areas of the Departments.
- Seeking proposals for Internal funding for Research to facilitate preliminary bench work and literature survey. **(Annexure-1)**
- Research clusters were formed involving students at UG and PG level.
- Research incentives and awards were given to members of faculty for publishing in reputed and high impact factor journals
- Research meetings were conducted periodically to deliberate on funding agencies, thrust areas and possible collaboration.

6.3.5 Library, ICT and physical infrastructure / instrumentation

➤ **Modern Central library**

- The library with a plinth area of 4500 Sq.M. is stacked with 1,17,439 volumes with 17,123 titles, 2929 online journals, and 191 print journals.
- The College has E-Resources access to IEEE, ASCE, and ASME.
- Students are also given facility to access Open Source Online Video Lectures in NPTEL.
- The institute is a member of DELNET.
- Memberships in National Digital Library (NDL); American Council Library and British Council Library
- The library is using Integrated Open Source Software – KOHA for check-in and check-out transactions. Digital Library is installed with 60 systems.

- Wi-Fi is enabled in the library enabling 500 faculty and students to access Wi-Fi at a single stretch.
- Equipment and software were procured for the newly established research laboratories and a few academic laboratories
- Refurbishments are made to existing class rooms to convert them into Smart Class Rooms with interactive boards and modern audio visual equipment.

6.3.6 Human Resource Management

- | |
|--|
| <ul style="list-style-type: none"> a) A self-devised faculty-Self appraisal system is followed to mentor and monitor faculty competence. b) Continuous training for faculty in domain, research and pedagogy was organized to enhance the learning outcomes of students and faculty research endeavors. c) Incentives are provided for faculty with exemplary performance in academics and research. d) A decentralized Organization structure and committees help manage and develop human resources on campus. |
|--|

6.3.7 Faculty and Staff recruitment

- | |
|---|
| <ul style="list-style-type: none"> ➤ The faculty and staff requirements are assessed based on the workload as per the AICTE norms. ➤ Faculty from premier institutions are prioritized for invitation during recruitment process ➤ Faculty with competence in research are recruited to undertake faculty research and mentor student research. ➤ Involvement of External experts during faculty selections is made mandatory to ensure transparency. |
|---|

6.3.8 Industry Interaction / Collaboration

The institute has signed Memorandum of Understandings (MoUs) with the following industries to have enhanced Industry Interaction during the academic year 2017-18:

- BSCPL Infrastructure Ltd, Hyderabad
- Maccaferri Environmental Solutions Pvt. Ltd., Gurgaon
- nVipani Technology Solutions Pvt. Ltd, Bengaluru
- Amplify Cleantech Solutions Pvt. Ltd, Bengaluru
- Involute Automation Pvt Ltd, Hyderabad
- Incumed Pvt Ltd, Hyderabad

➤ Expert Lectures(IIC)

Sl.No.	Lecture Topic	Name of the Expert and Affiliation	Date(s)
1.	Recent Trends in Big Data Analytics	Mr.SivaSundar Karthikeyan Sr. Data Analyst Latentview Analytics Ltd.	23-09-2017
2.	Current Trends in Latest Software Technologies	Mr. G. Gopinath, Java Developer, USA	23-09-2017
3.	Data Visualization Using Tableau	Mr.N Suresh Reddy, BI Developer service, Hyderabad	15-09-2017
4.	Awareness on Intellectual Property Rights (IPR)	Mr. M. P Venkata Kiran Kumar, Registered Patent Agent & Executive Officer, APTDC, CII	16-09-2017
5.	Artificial Intelligence and Big Data Analytics	Mr.Rajaraman Subramanian, Operations Manager, Calligo Technologies, Bangalore	13-10-2017
6.	3D Printing-Hands on Training	Mr. Ravi, Regional Manager, Think 3D solution, Hyderabad	23-10- 2017 & 24-10-2017
7.	A Two-Day Hands-on MATLAB Training Program on “Soft Computing: Artificial Neural Network, Fuzzy Logic and Genetic Algorithm”	Dr.S.Mahesh Anand, Founder & CTO Scientific Computing Solutions Chennai	14 -10-2017 & 15 -10- 2017
8.	Seismic Rehabilitation Structures	Dr.K.Rama Raju Chief Scientist and Head, Vibration Control Group, Structural Engineering Research Centre, Chennai	28-10-2017
9.	Energy Conservation & Latest Promising Technologies	Mr.H. Harinadh Rao Superintending Engineer, APSSDCL Mr.D.V. Chalapathi, General Manager (Energy Audit) APSPDCL, Tirupati	18-12-2017

Sl.No.	Lecture Topic	Name of the Expert and Affiliation	Date(s)
10.	Geotechnical Engineering – Case Studies	Mr. P Suresh K Gupta, Lead Engineer- Geotechnical, Hyderabad – 500081 Telangana.	08-01-2018
11.	A Demo on overview of Android and its applications by APSSDC	Mr.K Masthan vali, APSSDC Skill Trainer, APSSDC	17-2-2018
12.	Data Analytics	Mr.B.V. Venkata Kalyan, Dataism Technologies	17-2-2018
13.	Futuristic Technology for Next Generation Jobs by ICT	Mr. T. Srinivasa Rao, CEO, Transient Technologies, Vijayawada	06-03-2018
14.	Basic Refrigeration and Air Conditioning	Mr. A.P. Rao, Asst. Manager, LG,Vijayawada.	06-03-2018
15.	Indian Welding Society (IWS) Student's Forum	Dr. G. Madhusudhan Reddy, Outstanding Scientist, DMRL, Hyderabad Dr. K. Thyagarajan, IWS Chairman, Hyderabad Chapter, South Zone and Dr. K. Asok Kumar, AGM & Dy. Head, CoE in Welding Engineering and Technology, PSG College of Technology, Trust Coimbatore.	09-03-2018
16.	Conceptual Design and Innovative Manufacturing using Solid Works	Mr. Mahender Ganna, Senior Design Engineer Shreya Global Technologies, Hyderabad Mr. J. Sharath Chandra, Mechanical Engineer (Design), Shreya Global Technologies, Hyderabad	23-03-2018 & 24-03-2018

➤ Consultancy Activities

Sl. No	Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details
1.	Supreme Kethana Solutions Pvt. Ltd.	Development of Mobile Android APP for online home services	S. Pavan, SUKES, # 8-65/1, Royal Nagar, Tirupati-517501, A.P.Ph:9000999192
2.	Dr. H. Prasad Raju	Testing of treated sewage two samples (pH, TDS, Total suspended Solids, COD, Bio Chemical Oxygen demand, E. Coli)	JNTUA CE, Kalikiri Campus
3.	Mr. V. Mahesh	Cube compressive strength (M30 grade - 7 days), Y block pile	M/s Consolidated Construction Consortium Ltd
4.	Mr. V. Mahesh	Cube compressive strength (M30 grade - 7 days)	M/s Consolidated Construction Consortium Ltd
5.	Mr . M Gokul Nath	Cube compressive strength (M30 grade - 7 days)	M/s Consolidated Construction Consortium Ltd
6.	Mr. V. Mahesh	Cube compressive strength (M25 grade - 28days)	M/s Consolidated Construction Consortium Ltd

Sl. No	Name of the consultant	Name of consultancy project	Consulting/Sponsoring agency with contact details
7.	Mr. V. Mahesh	Testing of cement (Zuari OPC 53 Grade - Initial & final setting, Consistency)	M/s Consolidated Construction Consortium Ltd
8.	Mr. V. Mahesh	Cube testing (M30 Grade - 7 day strength)	M/s Consolidated Construction Consortium Ltd
9.	Mr . M Gokul Nath	Cube compressive strength (M25 grade - 7 days)	M/s Consolidated Construction Consortium Ltd
10.	Mr. R. Vinod Kumar	Crushing strength of Coarse aggregate (Sri Lakshmi Srinivasa Stone Crusher)	M/s Consolidated Construction Consortium Ltd
11.	Mr. V. Mahesh	7 day cube crushing strength	M/S MK INFRATECH
12.	Dr. P. Ramesh	Silt and Clay content	M/S MK INFRATECH
13.	Dr. P. Ramesh	Sieve analysis	M/S MK INFRATECH
14.	Mr. R. Vinod Kumar	Crushing strength of Coarse aggregate	M/S MK INFRATECH
15.	Mr. R. Vinod Kumar	Sieve analysis	M/S MK INFRATECH
16.	Mr. V.Mahesh	28day cube crushing strength	M/S MK INFRATECH
17.	Mr. V.Mahesh	7 day Pile Concrete Cube crushing strength	M/s Unigold Infra (P) Ltd.
18.	Mr. V.Mahesh	7day cube crushing strength	M/s Consolidated Construction Consortium Ltd
19.	Mr . M. Gokul Nath	7day cube crushing strength	M/s Consolidated Construction Consortium Ltd
20.	Mr. M. Gokul Nath	7day cube crushing strength	M/s Consolidated Construction Consortium Ltd
21.	Dr. P. Indiramma	Sieve analysis (SVEC Phase 11 - TC939)	M/s Consolidated Construction Consortium Ltd
22.	Dr. P. Indiramma	Silt & Clay (SVEC Phase 11 - TC939)	M/s Consolidated Construction Consortium Ltd
23.	Mr. R. Vinod Kumar	Particle size distribution	M/s Consolidated Construction Consortium Ltd
24.	Mr. R. Vinod Kumar	Crushing strength of Coarse aggregate	M/s Consolidated Construction Consortium Ltd
25.	Mr. R. Vinod Kumar	Particle size distribution	M/s Consolidated Construction Consortium Ltd
26.	Mr. R. Vinod Kumar	Crushing strength of Coarse aggregate	M/s Consolidated Construction Consortium Ltd
27.	Mr. R. Vinod Kumar	Particle size distribution	M/s Consolidated Construction Consortium Ltd

➤ **Students internships**

S. No	Company Name	No of Students
1.	BHEL. Ramachandra Puram, Hyderabad	6
2.	BHEL. Ramachandra Puram, Hyderabad	3
3.	BSNL Office, Tirupati	3
4.	Sri Damodaram Sanjeevaiah Thermal Power Station, Nelatur Village,Nellore	15
5.	Technical Training Institute, Vizag Steel Plant, Visakhaptnam	10
6.	Technical Training Institute, Vizag Steel Plant, Visakhaptnam	10
7.	Technical Training Institute, Vizag Steel Plant, Visakhaptnam	8
8.	Technical Training Institute, Vizag Steel Plant, Visakhaptnam	5
9.	Deputy Director (T/F),PSTI, Banglaore-70	6
10.	Shiridi Sai Electricals, Industrial Estate, Kadapa-516004	1
11.	Supraja Technologies, Anantapur	2
12.	AP GENCO	4
13.	ALSTOM	3
14.	All India Radio Station, Annamaiah Circle, Tirupati - 517 501	1
15.	Operation & Maintenance Circle, APGENCO, SRBPH, Srisailam Project	5
16.	Tirumala Tirupati Devasthanam, Tirupati.	8
17.	Satish Dhawan Space Center	1
18.	Consolidated Construction Consortium Limited (CCCL), Rangampeta, Tirupati.	6
19.	Mantha Associates, Hyderabad.	5
20.	VR2 Infra Solutions, Hyderabad.	3
21.	BSCPL Infrastructure Ltd., Hyderabad.	5
22.	Bangalore International Airport Limited, Bangalore.	3
23.	Bureau Veritas India Private Limited, Mangalore.	4
24.	Indian Institute of Technology, Indore.	2
25.	Entirz Engineering and Constructions Private Limited, Thazhambur, Chennai.	4
26.	BCV Developers Private Limited, Bangalore.	8
27.	Sarathy Geotech & Engineering Services Pvt. Ltd. Bangalore.	2
28.	APSSDC - Sree Vidyanikethan Engineering College	38
29.	Srisailam Left Bank Power House, Srisailam, Telangana-518101	9
30.	Royalaseema Thermal Power Project (Rtpp),Vv Reddy Nagar, Kallamalla, Yerraguntla-516312	8
31.	Royalaseema Thermal Power Project (Rtpp),Vv Reddy Nagar, Kallamalla, Yerraguntla-516312	6
32.	Royalaseema Thermal Power Project (Rtpp),VV Reddy Nagar, Kallamalla, Yerraguntla-516312	2
33.	Verzeo Edutech Pvt.Ltd	1
34.	Bharathi Cement Corporation Ltd	7
35.	ONGC	1

S. No	Company Name	No of Students
36.	Technical Training Institute, Vizag Steel Plant, Visakhapatnam	19
37.	Vizag Steel Plant, Vizag	5
38.	Rayalaseema Thermal Power Project (Rtpp), Vv Reddy Nagar, Kallamalla, Yerraguntla-516312	9
39.	Tirumala Milk Products, Narasaraopet	5
40.	Ministry of Electronics and Information Technology, Government of India, New Delhi	3
41.	Rayalaseema Thermal Power Project (Rtpp), Vv Reddy Nagar, Kallamalla, Yerraguntla-516312	3
42.	APSSDC, Amaravati.	6
43.	MAQ Software, Hyderabad	1
44.	MAQ Software Hyderabad	1
45.	Internshala, Gurugram	1
46.	MAQ Software Hyderabad	1
47.	Productable Solutions	1
48.	APSSDC	49
49.	Bitonic Technology Labs Private Ltd., Bangalore.	1
50.	Ankalan Web Solutions Pvt.Ltd	1
51.	THOUGHTCLAN Technologies Pvt. Ltd. Bangalore	1
52.	FP Tech Science Pvt.Ltd, Bangalore	1
53.	THOUGHTCLAN Technologies Pvt. Ltd. Bangalore	1
54.	Travel Tripper, Hyderabad	1
55.	Hashedin Technologies Pvt Ltd., Bangalore	1
56.	SASNEE Technologies Pvt Ltd., Bangalore	1
57.	HASHEDIN Technologies Pvt Ltd., Bangalore	1
58.	Product Labs Solutions Hyderabad	1
59.	Intern & Job International, Hyderabad	4
60.	Richard King Chatragadda, Hyderabad	1
61.	Happiest Mind Technologies Pvt Ltd., Bangalore	1
62.	O.C Tanner, Hyderabad	1
63.	Yellow Messenger, Hyderabad	1
64.	Satish Dhawan Space Centre Srihari Kota Psr Nellore	2
65.	Dataism Technologies, Tirupathi	1
66.	Siemens Laboratories, Sree Vidyanikethan Engineering College	27
67.	Dataism Technologies Pvt. Ltd, Tirupati, Chittoor	4
68.	Hashedin Technologies Pvt. Ltd, Bangalore	1
69.	Mahathi Software Pvt.Ltd, Visakhapatnam	1
70.	Siemens Laboratories, Sree Vidyanikethan Engineering College	27
71.	VAIZVA Tech Pvt Ltd	2
72.	NIT Suratkal	4
73.	SASNEE Technologies Pvt.Ltd, Bangalore	1

S. No	Company Name	No of Students
74.	Intern & Job International,Hyderabad	4
75.	DATAISM Technologies Pvt. Ltd, Tirupati Chittoor	1
76.	HAPPIEST MINDS Technologies Pvt.Ltd, Bangalore	1
77.	OC Tanner India Pvt Ltd, Hyderabad	1
78.	TCS,HYDERABAD	1
79.	Satish Dhawan Space Center Shar	2
80.	ENSAAR Global Pvt. Ltd. Hyderabad	1
81.	HASHEDIN Technologies Pvt.Ltd, Bangalore	1
82.	CEI India Pvt. Ltd. Chennai	1
83.	Skill Development Center, Amara Raja Batteries Pvt. Ltd., Karakambadi	1
84.	Carriage Repair Shop, Tirupati.	5
85.	Helicopter Division,Hal,Bangalore	3
86.	Bharat Heavy Electricals Limited	15
87.	Electrical Maintenance, Oil and Natural Gas Commission,Rajahmundry, East Godavari(dt).	3
88.	Skill Development Center, Amara Raja Batteries Pvt Ltd.,	4
89.	Royalaseema Thermal Power Project (RTPP),	3
90.	Royalaseema Thermal Power Project (RTPP),	11
91.	400/220 KV Substation,Uravakonda(M),Anantapuram (Dt)	3
92.	Bharat Heavy Electricals Limited	2
93.	Muthukur(m) Sri Damodaram Sanjeevaiah Thermal Power Station,	9
94.	Royalaseema Thermal Power Project (RTPP)	4
95.	Bharat Heavy Electricals Limited, Ramachandrapuram,Hyderabad	21
96.	Technical Training Institute, Vizag Steel Plant,Visakhaptnam	3
97.	The Superintended Engineer, O & M, A P Transco Nilayam, Near Apsara Circle,Kadapa	3
98.	GOLD Fields	1
99.	Satish Dhawan Space Centre, Srihari Kota,Psr Nellore	4
100.	Royalaseema Thermal Power Project (RTPP), VV Reddy Nagar, Kallamalla,Yerraguntla	4
101.	Learning and Development Centre, NLC India Ltd, Neyveli	4
102.	Bharat Heavy Electricals Limited, Ramachandrapuram, Hyderabad	1
103.	K-lite Industries,Ambattur Industrial Estate, Ambattur, Chennai.	1
104.	GOLD Fields	1
105.	GOLD Fields	1
106.	APSSDC	13
107.	APSSDC	15
108.	APSSDC	31
109.	ZNO Mesfet and its Application For Hydrogen Sensing	1
110.	Aigan/Gan Based Hydrogen Sensors Using Hemt Structures	1
111.	SIEMENS Laboratories, Sree Vidyanikethan Engineering College	30

S. No	Company Name	No of Students
112.	IIS Technologies	2
113.	APSSDC Training, Guntur	24
114.	APSSDC Training, Vijayawada	57
115.	Rayalaseema Thermal Power Project (RTPP), VV Reddy Nagar, Kallamalla, Yerraguntla.	09
116.	3I TECHSO Technologies, 74, 5 th AVE, V Block, Anna Nagar, Chennai, Tamilnadu.	05
117.	Carriage Repair Shop, Renigunta.	02
118.	Ee Public Health, Nellore	01
119.	V K Buildings and Services	01
120.	Roads and Buildings Department, Kadapa	01
121.	Tirumala Tirupati Devasthanams (TTD), Tirupati	06
122.	Ultra Tech Cement Limited Tadipatri	02
123.	Amara Raja Infra Private Limited, Renigunta	02
124.	Hetero Drugs, Tuni, Rajamandri	04
125.	SLC & SB Circle, Nellore	02
126.	Keller Ground Engineering India Pvt. Ltd., Chennai	01
127.	Engineering Projects (INDIA) LTD. (A Government of India Enterprise), Chennai.	04
128.	TGP Circle, Nandyala	04
129.	Sarathy Geotech & Engineering Services Pvt. Ltd., Bangalore	02
130.	Starworth Infrastructure & Construction Ltd., Bangalore.	15
131.	Nagarjuna Construction Company Limited, Hyderabad.	04
132.	STUP Consultants, Bangalore.	15
133.	Satyavani Projects And Consultants Private Limited (SVPCPL), Hyderabad	12
134.	MY HOME Constructions Pvt. Ltd., Hyderabad	15
135.	Dr Narla Tata Rao Thermal Power Station (VTPS), Ibrahimpatnam, Krishna (Dist).	08
136.	Sri Damodaram Sanjeevaiah Thermal Power Station, Apspdcl, Nelatur(V),Muthukur(M) S. P. S. R. Nellore (DIST).	08
137.	Rayalaseema Thermal Power Project (RTPP), VV Reddy Nagar, Kallamalla, Yerraguntla	13
138.	Bharat Heavy Electricals Limited, Ramachandrapuram, Hyderabad.	06
139.	Mandal Praja Parishad, Yerraguntla (M), Y. S. R. Kadapa(DIST).	03
140.	Satish Dhawan Space Centre, Srihari Kota PSR Nellore.	03
141.	CABS (DRDO), Belur, Yemalur (P), Bangalore.	01
142.	SIEMENS Pvt Ltd, Hyderabad	30
143.	WIPRO	90
144.	Efftronics Systems Pvt. Ltd. Vijayawada	09
145.	Amphenol Advanced Sensors	05
146.	BINATE Technologies Pvt. Ltd.	17

➤ **Companies visited for placement**

S. No.	Name of the Company
1.	Efftronics Systems Pvt. Ltd., Vijayawada
2.	SoCtronics Technologies Pvt. Ltd., Hyderabad
3.	WIPRO Ltd., Hyderabad
4.	Hashedin Technologies, Bangalore
5.	Mobis Technical Center of India (Hyundai Motor Group)
6.	CEI India Pvt. Ltd., Chennai
7.	ZENQ, Hyderabad
8.	ADOBE, Bangalore
9.	GlobalEdge Software Ltd., Bangalore
10.	Directi Internet Solutions Pvt. Ltd., Bangalore
11.	Cognizant Technology Solutions, Hyderabad
12.	DXCorr Hardware Technologies Pvt. Ltd., Bangalore
13.	IBM India Pvt. Ltd., Bangalore
14.	Medha Servo Drives Pvt. Ltd., Hyderabad
15.	Value Momentum, Hyderabad
16.	CADVision Engineers Pvt. Ltd., Hyderabad
17.	Toppr (KPO & IT), BAN
18.	Numerify, Bangalore
19.	O.C Tanner India Pvt. Ltd., Hyderabad
20.	Visteon, Chennai
21.	Inforica, Hyderabad
22.	Just Dail, Hyderabad
23.	Abyeti Technologies, Bangalore
24.	Sankalp Semiconductors, Hyderabad
25.	Amazon, Hyderabad
26.	Detect Technologies, Chennai
27.	Just Dial Ltd., Hyderabad
28.	Zopper, Hyderabad
29.	HealthAsyst, Bangalore
30.	Wheels India Limited, Chennai
31.	Lekha Wireless, Bangalore
32.	Learnyst, Bangalore
33.	ThoughtClan Technologies, Bangalore
34.	Click Labs, Chandigarh
35.	HSBC Software Development, Hyderabad
36.	Head Infotech India Pvt Ltd., Bangalore
37.	DhruvSoft Services Pvt. Ltd., Hyderabad
38.	TopRankers, Bangalore
39.	Employee Experts, Bangalore
40.	Rivigo, Hyderabad
41.	ZOHO, Chennai
42.	Yellow Messenger, Bangalore
43.	Global Shiksha, Bangalore
44.	SoCtronics Technologies Pvt. Ltd., Hyderabad (A consortium VEDA IIT) (at SRM Uni.)

S. No.	Name of the Company
45.	Rivigo, Vijayawawda
46.	STUP Consultants Pvt. Ltd., Bangalore
47.	Hexaware, Hyderabad
48.	Erwin India Pvt. Ltd., Hyderabad
49.	Flutura, Bangalore
50.	Head Infotech Pvt. Ltd., Hyd
51.	Tinystep, Bangalore
52.	Perpule, Bangalore
53.	Conflux Technologies, Bangalore
54.	Creya Learning and Research, Hyderabad
55.	TEK Systems, Bangalore
56.	Maker Global, Hyderabad
57.	Skill Launcher, Hyderabad
58.	Kloh Internet, Bangalore
59.	Affairal, Bangalore
60.	Capital First, Hyderabad
61.	Cusmat Technologies, Chennai
62.	eLitmus Evaluation Pvt. Ltd.
63.	Valued Epestimics Pvt. Ltd., Chennai
64.	MAQ Software, Hyderabad
65.	Rane Group, Hyderabad
66.	Prime Numbers, Bangalore
67.	GingerCup, Bangalore
68.	Rockman Industries, Hyderabad
69.	Psiong Digital Pvt. Ltd., Chennai
70.	Brand Works, Hyderabad
71.	AVL India Pvt. Ltd., Chennai
72.	Nucleus School of Banking Technology
73.	Great India Software Pvt. Ltd., Bangalore
74.	Cryptware Technology, Bangalore
75.	365innovative, Bangalore
76.	Hinduja Global Solutions, Bangalore
77.	Cogent, Bangalore
78.	Intelenet Global Solutions, Bangalore
79.	Eureka Forbes, Bangalore
80.	1POINT1, Bangalore
81.	Asahi India Glass Ltd., Chennai
82.	Multiplier Solutions Pvt. Ltd., Hyderabad
83.	BSCPL Infrastructure Ltd., Hyderabad
84.	Focus Academy for Career Enhancement (FACE), Chennai
85.	Gayam Motor Works, Tirupati
86.	Infosys Ltd., Hyderabad (APITA)
87.	HCL Technologies Ltd., Chennai (APITA)
88.	Avenue Supermarts Ltd.(Dmart), Hyderabad
89.	Golden Sun Technology, Hyderabad
90.	Netafim India Pvt. Ltd., Hyderabad
91.	Teamware Solutions, Hyderabad

S. No.	Name of the Company
92.	GREedge, Chennai
93.	Sunera Technologies, Hyderabad
94.	Cognizant Technology Solutions, Hyderabad

➤ **Skill development programs through APSSDC**

S. No.	Workshop	Duration	Participants
1	Google Android Developer Fundamentals Phase-I	12 th October to 14 th October 2017	IV B.Tech CSE-82
2	Google Android Developer Fundamentals Phase-II	15 th February to 17 th February 2018	IV B.Tech CSE-82
3	Workshop on Data Structures	05 th March to 07 th March 2018	II B.Tech CSE Students -204
4	IOT Fundamentals	12 th March to 14 th March 2018	III B. Tech CSE Students 131
5	Python Programming Phase-I	27 th March 2018 to 29 th March 2018	III B. Tech IT Students 92
6	Auto CAD	02 nd April to 04 th April 2018	III B.Tech Civil Students- 60
7	Progressive Web Apps	02 nd April to 04 th April 2018	III B. Tech CSSE Students - 59
8	Python Programming Phase-II	09 th April to 11 th April 2018	III B.Tech IT Students- 92
9	Python Programming	09 th April to 11 th April 2018	II B. Tech CSSE Students- 74

6.3.9 Admission of Students

All admissions into all courses of study in category – A and B, offered are strictly made as per the guidelines of APSICHE with due weightage to meritocracy.

6.4 Welfare schemes for

Teaching	<ul style="list-style-type: none"> ✓ Group Insurance Policy ✓ 50% of fee waiver for children of employees of SVEC.
Non teaching	
Students	<ul style="list-style-type: none"> ✓ Student Welfare Fund for fee waivers and concession. ✓ One way travel allowance for attending conferences & workshops. ✓ Conduct of student initiated techno-cultural events at institute level

6.5 Total corpus fund generated

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	IQAC, SVEC
Administrative			Yes	IQAC, SVEC

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?

- Revaluation
- Recounting
- Grading System
- External Evaluation
- Early publication of results online

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

6.11 Activities and support from the Alumni Association

Alumni Contributions:

- Alumni interactions with students
- Alumni as part of Board of Studies
- Alumni established start-ups on campus
- Alumni mentoring for entrepreneurship development

Department/ Discipline	Alumni Member
Electrical and Electronics Engineering (EEE)	Mr. Sreevatsav RSSD Alstom Transport Pvt. Ltd., Bangalore
Electronics and Communication Engineering (ECE)	Mr. K. Sagar Design Engineer-II , Advanced Micro Devices India Pvt. Ltd. Hyderabad
Electronics and Instrumentation Engineering (EIE)	Mr. A. Jaswanth Co-Founder, SiliConch Systems, Bangalore.
Computer Science and Engineering (CSE)	Mr.A.Jayaprakash Principal Software Engineer, Oracle India Pvt.Ltd., Hyderabad
Computer Science and Systems Engineering (CSSE)	Mr.A.Pavan Kumar Senior Staff Manager, Qualcomm, Bengaluru
Information Technology (IT)	Mr. P. S. V. Ravi Kumar Team Leader, Web Publish Stirred Creative Advertising Pvt. Ltd., Bangalore
Master of Computer Applications (MCA)	Mr. Krishna Pradeep Project Manager, ADP India Pvt. Ltd., Hyderabad
Civil Engineering (CIV)	Mr. A. Lakshmi Narayana Engineer, Maccaferri Environmental Solutions Pvt. Ltd, Chennai
Mechanical Engineering (ME)	Mr. M.V.Tulasiram Sharma, Asst. System Engineer, TCS Garima Park, Gujarat

6.12 Activities and support from the Parent – Teacher Association

- Parents' Meet was conducted on 19th August, 2017 & 06th January, 2018. More than 800 parents attended the programme and interacted with the respective Student Counsellors and HODs. The objective of the meet was to brief the parents about the quality education imparted, attendance and discipline regulations and facilities provided by the college.
- Feedback on facilities
- Feedback on student progression

6.13 Development programmes for support staff

- Staff Development programs in skills and communications

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

- Rain water harvesting by providing rain water harvesting structures (Soak Pits, Trench Pits, Ponds, Sumps, Porous/Permeable Pavements, Collection Points and Conveyance System) at different locations on the campus.
- Ground water is treated through two Reverse Osmosis (RO) systems (1000 Liters per hour capacity each) installed in the institute for potable purpose.
- The recycled water from the two Sewage treatment plants (Capacities: 200 KLD and 150 KLD) is used for watering the trees and lawns on the campus.
- A small section of non-teaching staff use bicycles for mobility within the campus and nearby
- A large number of faculty and students of the institution use the transport provided by the management
- A small section of the students and staff use public transport also
- Many of the members of the faculty are encouraged to do vehicle pooling to reduce the vehicular usage and pollution
- The campus possesses well laid roads which are friendly to the inmates of the campus
- Vehicles are parked away from the academic buildings to reduce the sound and air pollution
- Electric cars are available on campus for the benefit of the movement of the people on campus
- Automation of the entire academic and administrative practices are underway which shall reduce the use of paper
- Different types of dustbins are provided on campus to collect the plastic for careful disposal
- Also on all events regular announcements are made to reduce the use of plastics as an awareness exercise
- The entire campus is well maintained with a rich collection of trees and plants that make the environment carbon dioxide free and to maintain inmate's good health.
- The campus is enriched with greenery of 40% of total area which includes landscapes with grass, bushes, trees and ornamental trees by maintaining biodiversity.
- The landscaping is made brilliantly to bring aesthetic sense and ambience to the campus.
- Energy Efficient electronic gadgets like 5* rated air conditioners are used and maintained regularly.
- Unwanted usage of power is discouraged in Institute

- LED bulbs were used for newly constructed buildings and some of the incandescent and fluorescent tube lights are replaced with LED bulbs. Majority of the class rooms, laboratories, administrative blocks, computer centers, libraries, seminar halls and staff rooms were provided with LED lighting system which are supposed to be the energy efficient. Now, the power consumption through lighting system about 20 percentage is met by LED bulbs.
- Roof Top Solar Power Plant of capacity 500 kVA is installed and it will meet most of the power demand by the institute. There are 5 solar street light systems in the campus installed along the roads.
- Green construction materials and construction practices have been used in the construction of college infrastructure.
- Weather monitoring station is installed to remotely measure and monitor wide range of weather data viz. temperature, rainfall, wind speed, wind direction, relative humidity and atmospheric pressure.
- Posters on awareness on energy conservation and water conservation are made available in all relevant locations.
- Campus has Sprinkler Irrigation system for better water infiltration in soil and also to avoid water losses.
- Institution has organized outreach activities on green practices for the benefit of society.
- Education on Environment and Sustainability is part of the contemporary curriculum to create awareness among students on environment and sustainability.
- Institute has participated in AICTE Clean Campus Awards 2017, AP Green Awards 2017 and participating in Swachh Campus Rankings of Higher Educational Institutions 2018.
- Institute conducts green audit annually to enhance green practices.
- Institute conducts energy audit annually to improve energy conservation.

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.

- Implementation of Faculty attendance, Event Management, Transportation and online fee payment modules for convenience of faculty and students.
- Submission of research proposals for funding after thorough review by research advisors visiting Sree Vidyanikethan Engineering College.
- Parent Orientation Meet by Senior Management enlightening best practices of the institution

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

1. Boards of Studies discussed elaborately on the implementation of AICTE Model Curriculum from the Academic year 2019-20.
2. Modern teaching learning mechanisms like experiential learning were adopted for the benefit of the students.
3. Proposals were invited for internal research funding from faculty members of the departments.
4. Eight Research centres were established in the Institution.
5. Training programmes were organized by the Departments and Placement and Training Cell for improved career and higher education prospects among students.
6. Event management module was successfully deployed and effectively used by staff and faculty members.
7. Incentives were given to the faculty for their Research outcomes

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

1. Title of the Practice : Comprehensive training for students

Objectives of the Practice:

- To provide training in employability skills for gainful placement in industry
- To deliver domain skills for progression to Higher Education in Engineering/allied areas
- To imbibe attitude and develop skills among students for entrepreneurship

The Context:

The education objectives set for the program are providing gainful placement / promoting progression to Higher Education / developing aptitude for entrepreneurship among students. With the diversity of students - social and academic, the need for attaining program outcomes needs a definite add-on program as training. The short term training doesn't help student learn holistically, hence comprehensive training (four years) has been planned to produce productive alumni. This program delivers - goal setting, career planning, training and progression to success post completion of course. The imperative needs to develop students for future, training plan encompassing the life cycle of the program need to be organized.

The Practice:

- Training need analysis is conducted to identify their interest (Higher Education/ Career/ Entrepreneurship)
- Training plan is prepared and embedded into the time table for implementation
- Interaction with experts from industries and high impact training from professional organization are organized
- Continuous assessment of training through standardized online tests offered by popular portals
- Feedback from students on training and remedial sessions for enhancing the impact
- Liaison with IT & core companies for student placement
- Career guidance for progression to Higher Education and entrepreneurship

Evidence of Success:

- Increased rate of placement in corporate and government firms
- Enhanced number of students taking admissions in Higher Education in Engineering/ Management in India & abroad
- Increase in number of alumni start-ups and better awareness on entrepreneurship

Problems Encountered and Resources Required:**Problems:**

1. Understanding the need analysis of students
2. Embedded the training plan with curriculum

Resources Required:

1. Identification of experts and good training agencies for top-up events
2. Strong internal teams to handle training and associated logistics

Notes: Since attainment of the program outcomes is reflected in achieving quantitative success factors in placement, progression & Higher Education and entrepreneurship continuous internal training becomes a critical quality initiative

2. Title of the Practice : Interdisciplinary Research Clusters**Objectives:**

1. To identify & promote research in thrust areas of each department
2. To bring close researchers of different disciplines to work on interdisciplinary problems
3. To establish physical infrastructure to undertake multidisciplinary research

The context:

The College established in 1996 is mostly working on the thrust area of Teaching-Learning for a very long time producing alumni suitable for industry. However since 2010, the Institution expanded its vision to focus on research also as it directly impacts the quality of teaching, student experiential learning, development of new knowledge and possible internal revenue generation through intellectual property rights.

The Practice:

- Identified faculty with potential for research
- Created interdisciplinary clusters with faculty members of multiple disciplines (List)
- Established twelve (12) research labs for conducting advanced practical work (List)
- Periodic meetings among the clusters and with other clusters
- Preparation of project proposals for external funding
- Publication of research outcomes in national and international journals
- Applying for patenting, for some of the innovative work arising out of these clusters

Evidence of Success:

- Established advanced research centres in Eight domains:
- Increased publication outputs
- Enhanced funding from central funding agencies
- Filing of patents as intellectual property rights

Problems Encountered and Resources Required:**Problems:**

1. Bringing people from multiple disciplines to work in one interdisciplinary clusters
2. Raising the level of project proposals with problems of multidisciplinary nature

Resources Required:

1. Mentoring from experts
2. Collaboration with national institutions for mentorship, analysis of samples and literature survey

Notes: The quality of Higher Education Institution depends on development vertical such as research and hence the institution is seriously pondering to extract the best out of faculty and student research.

7.4 Contribution to environmental awareness / protection

Army green activities: Environmental awareness and tree plantation.

NSS activities on tree plantations

Event	Regular activities conducted	No. of Volunteers participated	Date
1	“Vanamahotsavam Week”, Mass Tree Plantation at Kuchivaripalli	80	08-07-2017
2	Swachh Pakhawad	50	06-08-2017

7.5 Whether environmental audit was conducted?

Yes

No

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

➤ **NBA Accreditation:**

Three departments namely, Computer Science and Engineering, Information Technology and Electronics and Communications Engineering offering UG programs in B.Tech were accredited by NBA for duration of THREE years.

➤ **AICTE-CII Survey-Platinum status:**

The institute has attained Platinum status for having high industry linkages ,in the recent AICTE-CII survey 2018 ,which is being organized to identify best industry linked technical institutes in India.

➤ **Pradhan Mantri Kaushal Vikas Yojana**

The College has been selected for 2nd time, as an Institute under PMKVY for Technical Institutions of AICTE (PMKVY-TI) to offer engineering Skills training to unemployed youth, free of cost. During Academic Year 2017-18, four courses were sanctioned and a total number of 100 unemployed youth from neighboring villages are undergoing the training. The total number of hours approved for giving training ranges between 180 to 480 hours. 25 Eligible Diploma holders in Electrical/Civil have been enrolled for **Solar PV Installer (Electrical/Civil) course**, under the mentorship of Skill Council for Green Jobs and NSDC. 25 Eligible B.Tech graduates enrolled for **Industrial Automation Specialist course** are being trained under the mentorship of Instrumentation Automation Surveillance & communication under the aegis of the Department of Electrical and Electronics, and mentorship Construction Skill Development Council of India (CSDI) and NSDC, 25 trainees of **Assistant Electrician** course are being trained.

➤ **CM Skill Excellence Centre (CMSEC)**

APSSDC identified the College as a CM Skill Excellence Center and sanctioned advanced Computing lab and Design, 3D Automation & Simulation labs

Labs are established with knowledge partners Google, Amazon, Microsoft training and certification courses are being offered from Google, Udacity, Courseera, Dassault Systemes, and Autodesk.

➤ **Centers of Excellence – AI / Deep Learning sanctioned**

The College is sanctioned with Centers of Excellence on Artificial Intelligence/Deep Learning by APSSDC Skill Development for students and members of faculty. The College has been recognized as Zonal Lead Partnership in association with Bennett University, Greater Noida; Royal Academy of Engineering, London; Brunel University, London; and nVIDIA. 6 members have been nominated to be trained as Master Trainers.

➤ **American Society of Civil Engineers Sree Vidyanikethan Engineering College (ASCE SVEC) Student Chapter was Established**

➤ **Gold Medals and Endowment Medals. (2017 Passed out Batch)**

Sl. No.	Donors	Branch	Gold Medal Winner	Roll No.	Percentage
B. Tech (2013-2017 Batch)					
1	Sri Manchu Narayana Swamy Naidu Memorial Gold Medal	CE	Yellapragada Meenakshi	13121A01C0	90.71
2	Sri Rajinikanth, Movie Artiste	EEE	Peddakotla Bhargavi	13121A02B9	90.56
3	Smt. Yarlagadda Rajani Gold Medal	ME	Kollu Sathvic	13121A0370	91.31
4	Sri K. Chiranjeevi, Movie Artiste	ECE	Mullapudi Mouneesh Krishna	13121A04A8	91.09
5	Sri Tatineni Rama Rao, Movie Director	CSE	Gandla Sreelakshmi	13121A0543	90.53
6	Sri T. Subbarami Reddy, Movie Producer	EIE	Pujari Vyshnavi	13121A1081	86.22
7	Sri Akkineni Nagarjuna, Movie Artiste	IT	D V Harika	13121A1217	90.36
8	Sri M.Srikanth Gold Medal	CSSE	Radha Eepuri	13121A1583	87.20
M. Tech (2015-2017 Batch)					
9	Smt. M. Hemalaya Kumari Gold Medal	EPS	Kambam Gireeshma	15121D0710	86.53
10	Sri Krishna Giri Gold Medal	VLSI	Adimulam Sudarsini	15121D5701	90.88
11	Smt. Koneru Sunitha Gold Medal	CNIS	Kaliki Alekhya	15121D6302	90.71
MCA (2014-2017 Batch)					
12	Smt. Nellore Lakshmiddevamma Memorial Gold Medal	MCA	Pundla Lavanya	14121F0045	86.97

➤ **Prathibha Awards**

The initiative of the state government of Andhra Pradesh to recognize and reward the meritorious students in the form of Prathibha awards has been an opportunity for the students of the College to prove themselves. 22 Prathibha awards were bestowed to students for their outstanding academic achievement on 15th Oct. 2017. Awards included a cash prize, a certificate and a memento.

Programme	No. of Awards Received
B. Tech	15
M. Tech	07
Total	22

➤ **Graduation Day**

The 6th Graduation Day of Sree Vidyanikethan Engineering College (Autonomous) was celebrated on 15th July 2017. Dr. A. S. Kiran Kumar, Chairman, Indian Space Research Organization (ISRO), the Chief Guest presented the Provisional Pass certificates under Autonomous regulations to the fifth batch of 1168 B.Tech students, Seventh batch of 56 M.Tech Students and the Sixth batch of 78 MCA students.

➤ **Techno-Cultural Fest**

Sree Vidyanikethan Engineering College's Techno-Cultural Fest, Mohana Mantra 2017 (MM2k17), was held during 25th, 26th and 27th September, 2017. Dr. M. Mohan Babu, Hon'ble Chairman of SVET, presided over the inaugural function. Speaking on the occasion he said "Mohana Mantra was initiated with a noble aim of bringing out the creativity and innovation in students and that Mohana Mantra, at its heart is all about unity in diversity, as it unifies students from every corner of our country on a pro-active platform".

The three day fest was attended by more than 25,000 students from around 50 colleges and universities, who participated in 100 plus different contests and competitions. The participants came from every nook and corner of the nation. MM2k17 also conducted an array of custom-built workshops, in coalition with Robokart, designed to appease young technology enthusiasts thirst for knowledge and innovation. MM2k17, for the first time since its inception, conducted Robo Wars. The phenomenal response to the event from spectators and students alike with participants coming all the way from Delhi, Uttar Pradesh, Goa and Tamilnadu, is worth a special mention.

A Science Exhibition was organized on 25th and 26th September 2017 at Sree Vidyanikethan Engineering College. With ten contemporary themes and over 125 exhibits, the exhibition had around 25, 000 visitors on both the days. All the Departments of the Engineering College displayed their exhibits with a theme, the gamut of the exhibits included working models, prototypes, posters, charts, power point presentations and videos.

➤ **Distinguished Lectures**

a) Lecture by Shri. M. Badri Narayana Murthy, Senior Scientist, Associate Director,SDSC, SHAR, on National Technology Day

Sree Vidyanikethan Engineering College commemorated 20th National Technology day on 11th May, 2018 in Dasari Auditorium. Every Year National Technology Day is celebrated across India on 11th May. It was on 11th May, 1998, that India achieved a major technological breakthrough by successfully carrying out a series of nuclear tests at Pokhran. Also the first, indigenous aircraft "Hansa-3" was test flown from Bangalore on this day; Added to it, India performed successful test firing of the Trishul missile on the same day.

Shri. M. Badri Narayana Murthy, Senior Scientist, Associate Director at SDSC, SHAR, Andhra Pradesh was the chief guest for the National Technology day at Sree Vidyanikethan Engineering College.

The Chief Guest, Shri. M.Badri Narayana Murthy presented on the topic “Technology for a Sustainable Growth” with emphasis on Technology addressing Human Needs, Impacts of different technologies: Pros and Cons, Technology related risks, Recent Technological achievements of ISRO, Indigenous development of Process Control System and other relevant topics.

b) Lecture by Prof. C. V. R. Murthy, Director, IIT Jodhpur

Prof. C. V. R. Murthy, Director, IIT Jodhpur 07th February 2018 visited the institution on 7th February, 2018. Prof. Murthy, in his interaction emphasized on three important pillars of any higher learning institute: faculty with good attitude, good physical infrastructure, and better industry-institute interaction. He strongly opined that faculty strength is of outmost importance for overall development of the institute. He reiterated the importance of student discipline in achieving any academic outcome. Further, he suggested to start PG Programs and to establish research centres in all the departments without any delay, to gear up research and collaboration with IIT Tirupati and other reputed organizations. Prof. Murthy felt that one faculty in-charge should follow up one MoU for better outcomes. He advised to focus on research in the classical areas of engineering apart from new technologies in IT and Computer Science. Further, he assured all his support for the development of the institution in all frontiers.

c) Lecture by Dr. D. Sujaya Lakshmi, Professor, North Carolina Central University, Durham, USA

Dr. D. Sujaya Lakshmi, Professor, North Carolina Central University, Durham, USA addressed the members of faculty on “Emotional Resilience”, highlighting the Dimensions of Resilience, Facts on Emotions, and Importance of Emotional Intelligence. The event was held on 27th June, 2017.

d) Lecture by Acharya Ajith Kumar, founder Chairman of VDM – INDIA ON THE MOVE, NGO

Acharya Ajith Kumar, founder Chairman of VDM – INDIA ON THE MOVE, NGO delivered an expert talk on 20th Spetember, 2017 on the topic ‘Unearthing and Maximizing Hidden Talent’, and familiarized the students with the emerging ideas and trends on how to develop personality in the 21st century contexts.

e) Lecture by Sri. Yandamoori Veerendranath

Renowned writer and motivational speaker, Sri. Yandamoori Veerendranath addressed I B.Tech students on “How to Sell Yourself for a Better Price”. This was organized on 30th August, 2017.

f) IPR Awareness Workshop Sponsored by Ministry of Electronics and Information Technology

The Department of Electronics and Instrumentation Engineering, SVEC organized a one day IPR Awareness Workshop on 16th December, 2017. Dr. A. K. Garg focused on IPR initiatives and emphasized on the importance of intellectual property rights specifically in the area of Electronics & Information Technology. He also described the support offered by the government in Patents filing and processing. Shri. S. Thangapandian, presented on IPR basics and explained clearly the steps involved in filing and processing patents. He shared his experience in Patent filing procedures with various case

studies. Mr. I. Prem Charles, Director, Allinnov Research and Development Pvt. Ltd, presented a detailed explanation on 'Prior Art Search' and discussed about the importance of prior art search before proceeding to patent filing. Dr. K. C. Varaprasad, Professor, SVEC, shared his expertise on Basics of Trademark and Copyrights. 139 faculty members attended this programme and were benefitted.

g) Lecture by Dr. DVR Sai Gopal, Professor, Department of Virology and Chairman, BOS, Virology, Sri Venkateswara University

Dr. DVR Sai Gopal, Professor, Department of Virology and Chairman, BOS, Virology, Sri Venkateswara University, delivered a Semi-Scientific Lecture on 23rd February, 2018 on 'Viruses are Friends Not Foes', expounding on the pivotal role played by friendly viruses in fields like agriculture, medicine and environmental sanitation.

8. Plans of institution for next year

Accreditation by NAAC for second cycle with top most grade.

Institutional Participation in NIRF ranking.

Augment infrastructure facilities for curricular and co curricular activities

Creating ambient environment for start-ups in the institution.

Collaborate with institutes of international repute to provide short-term degree programs for its students

Encourage students for internships, which foster employability.

Dr.B.NARENDRA KUMAR RAO

Coordinator, IQAC

Sree Vidyanikethan Engineering College
(Autonomous)
Sree Sainath Nagar, A.Rangampet

Dr. P.C. KRISHNAMACHARY

Principal & Chairman, IQAC

Sree Vidyanikethan Engineering College
(Autonomous)
Sree Sainath Nagar, A.Rangampet

Signature of the Coordinator, IQAC

Dr. B. NARENDRA KUMAR RAO, Ph.D.
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Sree Sainath Nagar, A. Rangampet
Chittoor (Dt.) - 517 102, A.P.

Signature of the Chairperson, IQAC

Dr. P.C. KRISHNAMACHARY
B.Tech., M.E., Ph.D.
PRINCIPAL
SREE VIDYANIKETHAN ENGINEERING COLLEGE
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Chittoor (Dt.) - 517 102, A.P.



ANNEXURES

Details of Project Proposals for Internal funding

S. No.	Research labs	Investigators	Project title	Amount (Rs.)
1.	Intelligent Computing Lab	Dr. V. Anantha Natarajan	Wood and Pest Detection in Agricultural Farms from Drone captured images using Deep Learning Techniques	325000
2.	Intelligent Computing Lab	Dr. K. Ramani	A Dynamic object Recognition System for Visually Impaired	150000
3.	Center for Energy	Dr. R. Satya Meher	Performance Evaluation of Water Cooler Cum water Heater with Tube in Tube Heat Exchanger	148000
4.	Micromachining Research Center	Dr. S. Ragu Nathan	An Extensive study on wire Electrodes performance for Machining HSLA Steel	260000
5.	Advanced Renewable Energy research Center	Dr. S. Krishnama Raju	IT -2 Fuzzy Logic based Hybrid Active Power Filter for Power Quality improvement in Distribution Networks	500000
		Mr. C. Kumar Reddy		
6.		Dr. V. Arun	Design, Analysis and Prototype Modeling of Reduced Switch Compact Multilevel Inverter for Medium Power Solar PV System	165040
		Mr. G.S. Arun Kumar		
7.	Centre for VLSI & Embedded Systems	Dr. N. Vithyalakshmi	Low Power CMOS Piezoelectric Energy Harvesting system for Automatic Vehicle Tire Pressure Monitoring	270000
8.	National MEMS Design Centre	Dr. P. Geetha	Implementation of Force sensor of robotic exoskeleton to ease the balance for elderly and orthopedically challenged	243000
9.	Antenna Research Lab	Ms. K. Neelima	Resonance – Based wireless Power Transfer System for Miniaturization of Bio-electronics Devices	355000
10.	Centre for Communication and Signal Processing	Dr. T.V.S. Gowtham Prasad	Driver Assistance System under Bad Weather Conditions	250000
11.		Mr. Jaya Krishna Sunkara	Design and Implementation of New Biorthogonal Wavelets and its application to Image processing	135000
12.	Bio-Signal Research Lab	Dr.Y. Dileep Kumar	Wearable Sensor Patient Monitoring Systems using IoT.	400000
		Dr. P. Srinivasa Rao		
13.	Data Analytics Research Lab	Dr. O. Obulesu	Prediabetes Information Investigation system by using Analytical Methods	78120
		Dr. Vellingiri J		
14.	Cyber Security and Cryptology Research Lab	Mr. G. Hemanth Kumar	Design and Implementation of A Distributed IoT System for the Monitoring of water quality in aquaculture	380000
		Mr. D.R. Kumar Raja		
TOTAL				36,59,160

**SREE VIDYANIKETHAN ENGINEERING COLLEGE**
(AUTONOMOUS)

SREE SAINATH NAGAR, TIRUPATI-517 102

Research Centre / Labs sanctioned by SVET

Sl. No.	Name of the facility	Team Leader	Budget approved (in Lakhs)
1.	Antenna Simulation Research Lab	Dr. V. R. Anitha	15.00
2.	Data Analytics Research Lab	Dr. O.Obulesu	15.00
3.	Bio Signal Research Lab	Dr. Y. Dileep Kumar	7.00
4.	Water & Environmental Centre	Dr. M.V. Subba Reddy	20.00
5.	Mirco Machining Research Lab	Dr. K.C. Varaprasad	25.00
6.	Geotechnical Research Lab	Dr. O. Eswara Reddy	20.00
7.	Cyber Security and Cryptology Research Lab	Dr. M. Naresh Babu	13.00
8.	Applied Renewable Energy Research Lab	Dr. S. Farooq	45.30
Total			160.30



SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)

SREE SAINATH NAGAR, TIRUPATI-517 102

I year Student Induction Program
2018-2019

Need:

- Students of first year engineering course should feel at ease
- Acclimatize to the new environment of the college and
- Create a bonding between the teacher and a student.

Duration of the program: Two weeks (11 days)

Broad areas planned:

Physical activities:

- Physical activity with games and sports or yoga
- Each student should pick one game and learn it for three weeks.
- Gardening or other suitably designed activity where labor yields fruits from nature.

Outcome: Develop physical fitness and team work

Creative Arts: Learning an art form

- Every student shall choose one skill related visual arts or performing arts. (Painting, sculpture, pottery, music, dances etc).
- The student shall pursue it every day for the duration of the program.

Outcome: Develop creative expression; a sense of aesthetics and which would, hopefully flow into engineering design later.

Universal Human Values:

- Discussions would be conducted in small groups of about 20 students with a faculty mentor each
- Best taught through group discussions and real life activities rather than lecturing

Outcome: Character Building; Experience the joy of learning; Stand up to peer pressure; take decisions with courage; aware of relationships with colleagues

Literature and computer proficiency:

Literary activity would encompass reading, writing and possibly, debating, enacting a play etc in English and introduction of computer familiarity

Outcome: Bettering pass percentage of students by countering problems arising due to lack of English and basic computing skills

Lectures by Eminent People

At least three lectures by eminent people.

Outcome: Exposure to people who are socially active or in public life.

Visits to Local Area and Social Awareness

A couple of visits to the landmarks of the city, or a hospital or orphanage shall be organized.

Outcome: Expose students with the area and also the underprivileged.

Familiarization to Department /Branch & Innovations

- Different methods of study
- What is it getting into a branch or department?
- Role it plays in society through its technology.
- Visit to the laboratories, workshops & other facilities

Outcome: Facilitates student goal setting, scheme of study and career planning

Program planning:

Student categorization: For every 10 undergraduate first year students, there would be a senior student as a student guide, and for every 20 students, there would be a faculty mentor.

Schedule:

Initial phase (1 day):

Day-1:

Welcoming the freshers by Principal, Deans and HoDs
(10.00AM - 11.30AM)

Visit to respective Departments, Central library, campus tour
(11.35 AM – 12.30 PM)

Day-2:

- Mentor-mentee groups - Introduction within group

Regular phase (9 days):

- **Physical activity** **(9h)**
 - Significance and Demonstration of few Yoga exercises - 3h
 - Awareness and rules and regulations of few popular sports and games - 6h
(Basketball, Football, Baseball, Rugby, Volleyball and Chess)
- **Creative Arts** **(3h)**
 - Drawing and painting – 1h
 - Significance and varieties of Indian music forms – 1h
 - Significance and varieties of Indian dance forms – 1h
- **Universal Human Values** **(3h)**
 - Introduction to value education– 1h
 - Understanding the harmony at various levels– 1h
 - Implications of right understanding in life and profession– 1h
- **English language proficiency modules** **(5h)**
 - Words building -1h
 - Parts of speech – 1h
 - Active voice and passive voice – 1h
 - Sentence making- 1h
 - Story telling – 1h
- **computer proficiency modules** **(3h)**
 - MS word – 1h
 - MS Excel – 1h
 - MS Powerpoint – 1h

- **Special Lectures by Eminent People** **(3h)**
 - Lecture-1: Personality Development – 1h
 - Lecture-2: Personality Development – 1h
 - Lecture-3: Goal Setting – 1h
- **Familiarization to Dept./Branch & Innovations** **(6h)**
 - Different methods of study – 1h
Basic Teaching learning methods
 - What is it getting into a branch or department?-1h
Significance of the respective branch of study
 - Role it plays in society through its technology – 1h
Applications of the domain to society and industry
 - Visit to the laboratories, workshops & other facilities 3h
Familiarization of labs, software, equipment and other department facilities

8th Day

Regulatory Affairs

Forenoon: Academic regulations, course structure and planning **(3h)**

Co-Curricular Activities

Afternoon: conducting student debates and seminars **(3h)**

9th Day

Forenoon: Lecture by senior professors of the department **(3h)**

- Higher education opportunities - 1h
- Career in research - 1h
- Career in entrepreneurship - 1h

Afternoon: Informal interactions

Student talents like singing, mimicry, storytelling **(1h)**

Presentation of student groups on learning from orientation **(1h)**

Closing phase (1 day):

- Discussions and finalization of presentation on learning within each group **(3h)**
- Formative assessment (comprehensive objective type test) **(1h)**

Follow Up after Closure

A student should feel free to approach his faculty mentor or the student guide, when facing any kind of problem, whether academic or financial or psychological etc.

Follow Up after Closure – Same Semester

It is suggested that the groups meet with their faculty mentors once a month, within the semester after the 3-week Induction Program is over. This should be a scheduled meeting shown in the timetable.

Follow Up – Subsequent Semesters

- It is extremely important that continuity be maintained in subsequent semesters.
- It is suggested that at the start of the subsequent semesters (upto fourth semester), three days be set aside for three full days of activities related to follow up to Induction Program.
- The students are shown inspiring films, do collective art work, and group discussions be conducted.
- Subsequently, the groups should meet at least once a month.

Implementation:

Program: I year B. Tech Student Orientation Program (2018-2019)

Program Coordinator: Dr. AVM Prasad Head, Department of BS&H

Group – I: CSE, IT, CSSE & Mech

Group Coordinator: Mr. S. Srinivasa Chakravarthy Asst. Professor
Department of CSE

Group – II: EEE, ECE, EIE & Civil

Group Coordinator: Mr. M. Balaji Asst. Professor, Department of ECE

Tentative Dates: 02.07.2018 to 14.07.2018 (Effectively 11 days)

Report Writing: Submission of Report on conduction of orientation program by each HOD

SREE VIDYANIKETHAN ENGINEERING COLLEGE (Autonomous)

Sree Sainath Nagar, Tirupati

Schedule of Induction Program for Group - I

Day & Date		10:00 to 11:00	11:00 to 12:00	12:00 to 1:00	2:30 to 3:30	3:30 to 4:30
W E E K 1	Day 1: Monday 02-07-2018	Welcome Note & Introduction		Visits to the Departments by Mentors	-	-
	Day 2: Tuesday 03-07-2018	Introduction to Mentor & Mentee Groups by Mentors		<i>Creative Arts: Drawing & Painting</i> by Art & Literary Club (Dasari Auditorium)	<i>Computer Proficiency: MS Word</i> by C-Branch Faculty (Dasari Auditorium)	<i>Physical Activity: Yoga - I</i> by Dr. M. S. Sujatha, Professor of EEE, SVEC (Dasari Auditorium)
	Day 3: Wednesday 04-07-2018	<i>Special Lectures: Personality Development</i> by Dr. B. Mohan, Director, SVIM (Dasari Auditorium)	<i>Universal Human Values: Introduction to Value Education</i> by Dr. N. Gurunadha Naidu, Professor, SVIM (Dasari Auditorium)	<i>Familiarisation to Departments: Significance of Branch of Study</i> by Departments (Respective Classrooms)	<i>Computer Proficiency: MS Excel</i> by C-Branch Faculty (Dasari Auditorium)	<i>Physical Activity: Yoga - II</i> by Mr. Ramachandra Babu, Assistant Professor of English, BS & H (Dasari Auditorium)
	Day 4: Thursday 05-07-2018	<i>Special Lectures: Time Management</i> by Dr. N. Gurunadha Naidu, Professor, SVIM (Dasari Auditorium)	<i>Universal Human Values: Understanding the Harmony at various levels</i> by Dr. I. Sudarsan Kumar, COO, SVET (Dasari Auditorium)	<i>Cocurricular Activities: Debates / Seminar - I</i> by Department's Technical Associations (Respective Classrooms)	<i>Computer Proficiency: MS PowerPoint</i> by C-Branch Faculty (Dasari Auditorium)	<i>Physical Activity: Awareness on Volleyball</i> by Mr. Anji Babu, PET, & Mr. M. Balaji, Sports Coordinator, SVEC (Dasari Auditorium)
	Day 5: Friday 06-07-2018	<i>Special Lectures: Goal Setting</i> by Dr. I. Sudarsan Kumar, COO, SVET (Dasari Auditorium)	<i>Creative Arts: Significance and Varieties of Indian Music</i> by Music Teacher (Dasari Auditorium)	<i>Universal Human Values: Implication of Right Understanding in Life and Profession</i> by Dr. D. V. S. Bhagavanulu, Director, SVEC (Dasari Auditorium)	<i>English Language Proficiency: Word Building</i> by Department of BS & H (Dasari Auditorium)	<i>Physical Activity: Awareness on Basketball</i> by Mr. Noor Ahmed, PET (Dasari Auditorium)
W e e k 2	Day 6: Monday 09-07-2018	<i>English Language Proficiency: Parts of Speech</i> by Department of BS & H (Dasari Auditorium)	<i>Creative Arts: Significance and Varieties of Indian Dance</i> by Dance Teacher (Dasari Auditorium)	<i>Familiarisation to Departments: Basic Teaching Learning Methods</i> by Departments (Respective Classrooms)	<i>English Language Proficiency: Active & Passive Voices</i> by Department of BS & H (Dasari Auditorium)	<i>Physical Activity: Awareness on Chess</i> by Dr. V. R. Anitha, Professor of ECE, SVEC (Dasari Auditorium)
	Day 7: Tuesday 10-07-2018	<i>English Language Proficiency: Sentence Formation</i> by Department of BS & H (Dasari Auditorium)	<i>Familiarisation to Departments: Application of Domain to Society and Industry</i> by Departments (Respective Classrooms)	<i>Lectures by Senior Professors: Higher Education Opportunities</i> by Senior Professors in Departments (Respective Classrooms)	<i>English Language Proficiency: Story Telling</i> by Department of BS & H (Dasari Auditorium)	<i>Physical Activity: Awareness on Football</i> by Mr. Sunsuma, PET (Dasari Auditorium)
	Day 8: Wednesday 11-07-2018	<i>Familiarisation to Departments: Visits to Labs Workshops & Other Facilities</i> by Departments			<i>Lectures by Senior Professors: Career in Research</i> by Senior Professors in Departments (Respective Classrooms)	<i>Physical Activity: Yoga - III</i> by Dr. L. V. Reddy, Professor of IT, SVEC (Dasari Auditorium)
	Day 9: Thursday 12-07-2018	<i>Regulatory Affairs: Regulations</i> by Dr. C. Subhas, Dean (Academics), SVEC, Dr. K. Saradhi, CoE, SVEC and HoDs (Dasari Auditorium)			<i>Cocurricular Activities: Debates / Seminar - II</i> by Department's Technical Associations	
	Day 10: Friday 13-07-2018	<i>Lectures by Senior Professors: Career by Entrepreneurship</i> by Ms. A. Sumera, Assistant Professor of Commerce, BS & H Mr. Vishnu Vardhan Naidu, Assistant Professor of Mech, SVEC (Dasari Auditorium)	<i>Informal Interactions: Story Telling / Mimicry / Singing</i> by Art & Literary Club & Music Teacher (Dasari Auditorium)	<i>Physical Activity: Awareness on Baseball</i> by Dr. B. Palakshi Reddy, Assistant Professor of Chemistry, SVEC (Dasari Auditorium)	<i>Physical Activity: Awareness on Rugby</i> by Mr. S. Sreenivasa Chakravarthi, ARO, SVET & Mr. C. Ravindra Murthy, Assistant Professor of EIE, SVEC (Dasari Auditorium)	<i>Informal Interactions: Presentation of Student Groups</i> by Department's Technical Associations (Respective Classrooms)
	Day 11: Saturday 14-07-2018	<i>Feedback & Assessments: Decisions & Finalizations on Activities</i> by Mentors & Department's Technical Associations			<i>Feedback & Assessments: Formative Assessment</i> by Mentors & Dr. A. V. M. Prasad, HOD, Department of BS & H, SVEC	



SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

SREE SAINATH NAGAR, TIRUPATI-517 102

Department of Electronics and Communication Engineering

Faculty Course Assessment Report

Course Code:	14BT70403	Program:	IV B. Tech I Sem ECE
Course Title:	Light wave communications	Acad. Year:	2017-18
Faculty :	Dr. P. V. Ramana, Dr. A. B. Yadhav, Mr.P. V. Mahesh, Ms.V, Mounika reddy	Section:	A ,B,C & D

COURSE TITLE: LIGHT WAVE COMMUNICATIONS (14BT70403)

Course Outcomes

- CO1** Gain Knowledge in: Mode theory of optical communication, Various losses occurring in optical fibers, Optical sources and detectors, Power Launching and coupling techniques, Optical links, WDM concepts & Optical Networks.
- CO2** Analyze single & multimode fibers and analog & digital links.
- CO3** Design and develop Optical sources, Detectors and links.
- CO4** Solve problems in optical fibers, sources and detectors for better optical communication systems.

Program Outcomes

Engineering Graduates will be able to:

- PO1:** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2:** Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3:** Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4:** Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5:** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO6:** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO7:** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8:** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9:** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10:** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear

instructions.
PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
Program Specific Outcomes
PSO1: Apply the knowledge of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems to the solutions of real world problems.
PSO2: Analyze complex engineering problems in the domains of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems.
PSO3: Design and Develop solutions in real time in the domains of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems.
PSO4: Conduct investigations and address complex engineering problems in the domains of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems.
PSO5: Apply appropriate techniques, resources, and modern tools to complex engineering systems and processes in the domains of Electronics, Signal Processing, Communications, and VLSI & Embedded Systems.

I. Mapping of Course to Program Outcomes and Program Specific Outcomes:

Program Outcomes & Program Specific Outcomes	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4
Mapped Course Outcomes (Level of mapping – HR: Highly Relevant R: Relevant)	CO1 (HR)	CO2 (HR)	CO3 (HR)	CO4 (HR)	CO1 (HR)	CO2 (HR)	CO3 (HR)	CO4 (HR)

II. Course Assessment:

Course Outcomes		Tool/ Task	% Score for selected program outcome				CO Attainment (%)
			PO1	PO2	PO3	PO5	
CO1	Gain Knowledge in: Mode theory of optical communication, Various losses occurring in optical fibers, Optical sources and detectors, Power Launching and coupling techniques, Optical links, WDM concepts & Optical Networks.	M1Q1	69				77
		M1Q3B	96				
		M1Q4	99				
		M1Q5B	95				
		M2Q1	16				
		M2Q2	98				
		M2Q5B	83				
CO2	Analyze single & multimode fibers and analog & digital links.	M1Q2		99			81
		M1Q5A		80			
		M2Q3A		72			
		M2Q3B		83			
		M1Q5A		56			
CO3	Design and develop Optical sources, Detectors and links.	M1Q3A			79		79
CO4	Solve problems in optical fibers, sources and detectors for better optical communication systems.	M2Q4				97	97
Aggregate % score for each selected program outcome			77	81	79	97	-
Outcome satisfied			Yes	Yes	Yes	Yes	-

Note: %= Percentage of students who got 60% or more marks.

Minimum Level for PO attainment: 60%

III. Comments

All the course outcomes and corresponding program outcomes showed expected level of attainment. From assessment, it is observed that students require some preparatory classes on dispersion in optical fibers.

IV. Recommendations For Improvement

More exercises on dispersion in optical fibers need to be done during tutorial classes.

V. COURSE OUTCOMES & CORRESPONDING QUESTIONS

CO1: Gain Knowledge in: Mode theory of optical communication, Various losses occurring in optical fibers, Optical sources and detectors, Power Launching and coupling techniques, Optical links, WDM concepts & Optical Networks.	
M1Q1	a) Write expression for critical angle in ray theory of transmission. b) How number of guided modes in a graded index fiber is determined. c) List the materials used for core and cladding of an optical fiber. d) Draw the structure of optical fiber cable. e) What is evanescent field? f) Classify bending losses.
M1Q3B	Demonstrate any two methods of fiber fabrication
M1Q4	List the advantages of Optical Fibers with explanation
M1Q5B	Summarize different attenuation losses associated with optical fiber
M2Q1	a) Which optical source has narrow spectral emission width? b) Write the expression for Responsivity of APD. c) Draw 3 types of mechanical misalignment of fibers. d) List various losses in 2X2 coupler. e) Define Relative Intensity Noise. f) What is Impact Ionization in avalanche effect.
M2Q2	Demonstrate how temporary and permanent joints are made between two fibers using splicing techniques?
M2Q5B	List the applications of Fiber bragg grating and write short notes of each
CO2: Analyze single & multimode fibers and analog & digital links	
M1Q2	Derive expressions for ray theory transmission and make use of it to obtain Numerical Aperture.
M1Q5A	What is dispersion in optical fibers? Analyze how the dispersion limits the capacity of optical fibers.
M2Q3A	Justify why double hetero structure is preferred in LED optical source.
M2Q3B	Interpret the role of Fabry-Perot resonator cavity for a LASER diode.
M1Q5A	Compare photo detectors using generic operating parameters.
CO3: Design and develop Optical sources, Detectors and links	
M2Q4	Estimate link power budget and rise time budget for point-to-point fiber optic link
CO4: Solve problems in optical fibers, sources and detectors for better optical communication systems	
M1Q3A	A light wave is travelling in a semiconductor medium (GaAs) of refractive index 3.6. It is incident on a different semiconductor medium (AlGaAs) of refractive index 3.4 and the angle of incidence is 80° . Conclude whether this can result in Total Internal Reflection.

Attainments of 2014 admitted Batch for the course Light Wave communications

COURSE OUTCOMES ATTAINMENT (%)			PROGRAM OUTCOMES ATTAINMENT (%)			PROGRAM SPECIFIC OUTCOMES ATTAINMENT (%)		
	Internal	External		Internal	External		Internal	External
CO1	77		PO1	77		PSO1	77	
CO2	81		PO2	81		PSO2	81	
CO3	79		PO3	79		PSO3	79	
CO4	97		PO4	97		PSO4	97	

Periodic Interactions with Experts in various Engineering Disciplines

Sl. No.	Name of the Event	Dates of the event	No. of participants
1.	Faculty Development Program on Electrical Panel Board Design and Erection	23-03-2018	25
2.	Faculty Development Program on “Embedded based Power and Motor control solutions using ST CAE”	12-07-2017	30
3.	29th IIRS Outreach Programme on, “Hyperspectral Remote Sensing and its Applications”	19-02-2018 to 13-03-2018	38
4.	FDP on, "MATLAB-Signal Processing with Simulink"	07-02-2018 to 09-02-2018	20
5.	FDP on, "Antenna Design and Simulation using FEKO – EM Simulation Tool"	19-01-2018 to 20-01-2018	48
6.	Twenty-eight IIRS Outreach Programme On “Close Range Photogrammetry and Terrestrial Laser Scanning”	08-01-2018 to 12-01-2018	39
7.	AICTE Sponsored National Seminar on, "Research issues on Nano-Particles and Nano-Bio Sensor in Agriculture"	24-11-2017 to 25-11-2017	120
8.	FDP on, "Project Based Learning with MATLAB"	12-10-2017	78
9.	IIRS out-reach Program on, "UAV Remote Sensing and Applications"	03-07-2017 to 07-07-2017	30
10.	Faculty Development Program on ‘IOT and Big Data Analytics’	20-11-2017 to 25-11-2017	67
11.	A Two Day National Level Seminar on “Emerging Trends and Research Challenges in Software Defined Networks”	15-12-2017 to 16-12-2017	69
12.	AICTE Sponsored A Two Week Faculty Development Programme on Challenges and Current Solutions of Cyber Physical Systems (CCSCPS)	11-12-2017 to 23-12-2017	75
13.	Two Day Faculty Development Programme on “MoodleCloud: An ICT for Effective Educational Communication”	01-01-2018 to 02-01-2018	35
14.	AICTE & SERB Pre Conference Workshop on ”Machine Learning and its Applications: Theory and Hands On”	03-01-2018	100
15.	DST SERB sponsored International Conference on ”Cognitive Science & Artificial Intelligence	03-07-2017 to 05-07-2018	75
16.	AICTE - SERB sponsored Second International Conference on ”Cognitive Science & Artificial Intelligence	04-01-2018 to 05-01-2018	115
17.	A Two Day Short Term Training Programme on “Conceptual Design and Innovative Manufacturing using SOLIDWORKS”	23-03-2018 to 24-03-2018	66

Research Clusters

S.No.	Name of the Research Cluster	Focus Areas	Department
1.	MEMS	<ul style="list-style-type: none"> • Micro Cantilevers • Bio Sensors • Energy Harvesting • Carbon Nanotubes • Gas Sensors • RF MEMS 	ECE (Inter-disciplinary)
2.	VLSI & Embedded Systems	<ul style="list-style-type: none"> • System-on-chip Design • Reconfigurable Computing • Intelligence Systems for on board Data Processing & Control • Automotive Systems • Smart Cities, Medical & Military Applications 	ECE
3.	Signal Processing	<ul style="list-style-type: none"> • Digital Image Processing • Radar and Lidar Signal Processing • Bio-signal Processing • Speech Signal Processing 	ECE
4.	Communications	<ul style="list-style-type: none"> • Cognitive radio, Network protocol • 5G communication, Big data • OFDM and 4G communication • Efficient communication for telemedicine 	ECE
5.	Energy Systems	<ul style="list-style-type: none"> • Solar, Wind & PV Integration. • Energy storage and management systems. • Energy Harvesting; • Renewable / Alternate energy • Solar Thermal Energy Technology and Energy Material Development 	EEE
6.	Power Systems	<ul style="list-style-type: none"> • Power Quality • Voltage stability, SVC compensation and Soft Computing techniques applied to power systems • Contingency analysis, state estimation and optimal operation. • Power Electronics applied to power systems • Smart Grid and Micro Grid 	EEE
7.	Computer Vision	<ul style="list-style-type: none"> • Video Analytics • Image and Video retrieval Process 	Computer Science
8.	Software Development	<ul style="list-style-type: none"> • Software Engineering • Software Testing • Optimization Techniques • Software Application 	Computer Science
9.	Network Security	<ul style="list-style-type: none"> • Improvement of Quality of Service (QoS) • Analysis of cyber security issues • Protection method of Cyber security • Forensics analysis on Cyber attacks 	Computer Science

S.No.	Name of the Research Cluster	Focus Areas	Department
10.	Data Mining	<ul style="list-style-type: none"> • Data Analytics • Machine Learning • Opinion Mining • Web Mining 	Computer Science
11.	Manufacturing	<ul style="list-style-type: none"> • Micromachining • Tool Design • Additive Manufacturing • Development of Metal Matrix composites • Optimization Techniques • Industrial automation • Mechatronics • Robotics 	ME
12.	Water and Environment	<ul style="list-style-type: none"> • Water Resources Engineering & Management • Environmental Engineering • Water Treatment • Remote sensing and GIS 	CE
13.	Geotechnical and Transportation	<ul style="list-style-type: none"> • Geotechnical Engineering • Transportation Engineering 	CE
14.	Biomedical Instrumentation	<ul style="list-style-type: none"> • Image Processing • Signal Processing • Bio-Signal/Image Processing • Rehabilitation Engineering 	EIE

Technical Talks organized by Research Advisory Committee: (32)

Sl.No.	Faculty Name	Research Topic	Date of presentation
Department of EEE (1)			
1.	Dr. S. Krishnama Raju	Research scope for Electrical engineers	16-08-2017
Department of ECE (5)			
2.	Mr. Sai Rajanarendra Assistant Professor ECE	Nano Sensors: Design, Principles and Applications	07-07-2017
3.	Dr. P Nagarajan, Associate Professor ECE	Low Power VLSI Design Methodologies Design Tools	21-09- 2017
4.	Dr. N Padmaja Professor ECE	Analysis of Teager Energy Estimation using Teager Energy Operator and Hilbert Huang Transform	19-12-2017
5.	Mr. V.M.S.N Pavan Kumar Assistant Professor ECE	Technical Challenges in Femtocell Networks	08-03-2018
6.	Ms.K Sudha Assistant Professor ECE	Antenna Parameters	19-04-2018
Department of CSE (7)			
7.	Mr. S. Sreenivasa Chakravarthi	Test Driven Development- an Agile Approach	11-09-2017
8.	Dr. A. Senguttuvan	How to Improve Research skills	15-09-2017
9.	Mr. K. Munivara Prasad	Detection and Mitigation of Application Layer DDoS Attacks using Machine Learning and Ensemble Classifiers	22-09-2017
10.	Mr. Shaik Salam	Spatio Temporal Mining	05-10-2017
11.	Dr. A. Senguttavan	Internet of Things	01-11-2017
12.	Mr. N. Papanna	Supporting efficient and scalable multicasting over mobile ad hoc networks	13-12-2017
13.	Mr. E. Hari	Live data analytics for internet of things	22-12-2017
Department of IT (5)			
14.	Dr. Vellingiri Jayagopal Associate Professor	Software Security Issues in Embedded Systems	13-09-2017
15.	Dr. K. Khaja Baseer, Associate Professor and Ms. C. Silpa, Assistant Professor	Open Educational Resources (OERs) and Creation of Audio or Video Lectures using Open Source Tools	30-12-2017
16.	Ms. Ch. Prathima Assistant Professor	Smart Agricultural Techniques	07-02-2018
17.	Mr. Ch. Sreenu Babu, Assistant Professor	Emergence of Deep Learning	14-03-2018

Sl.No.	Faculty Name	Research Topic	Date of presentation
18.	Ms. B. Sangamithra, Assistant Professor	Test Driven Approach on Agile Environment	24-04-2018
Department of CSSE (2)			
19.	K.Lalitha, Assistant Professor(SL)	Alternate Type Step Pseudo Random Number Generator Using Shift Register	22-07-2017
20.	Ashraf Ali Shaik, Assistant Professor(SL)	Biometric based Cryptography for Digital content protection without any key storage	05-08-2017
Department of EIE (3)			
21.	Mr.C.Kalakrishna	Patient Monitoring System	18.10.2017
22.	Dr.A.Yasmine Begum	Physiological animal Color	24.01.2018
23.	Mrs.V.Kalpana	Early detection of ILD with imaging technique	24.01.2018
Department of MECH (9)			
24.	Dr. B. Sachuthanathan, Professor	Renewable Energy and Sustainable Environment	26.07.2017
25.	Mr. G.V.V.S. Reddy Prasad, Asst. Professor	3D Printing & Additive Manufacturing Technologies	14.09.2017
26.	Mr. G. Dileep Kumar, Asst. Professor	Evolutionary algorithms and Multi-Criteria decision making analysis	21.09.2017
27.	Mr. M. Gangaraju, Asst. Professor	Contemporary Advances in Materials & Manufacturing Engineering	10.10.2017
28.	Dr. K.C. Varaprasad, Head & Professor	Recent advances in Welding and Research Perspectives	03.11.2017
29.	Dr. J.S. Binoj, Assoc. Professor	Environmental Degradation of Materials in Power Industry and its Control	20.12.2017
30.	Dr. S. Sree Sabari, Assoc. Professor	Welding Metallurgy and Weldability of Non-Ferrous Alloys	20.12.2017
31.	Dr. R. Satya Meher, Professor	Recent Advances in Mathematical Science for Engineering Applications	03.01.2018
32.	Mr. R.L. Krupakaran, Asst. Professor	Recent and Future Trends in Automobile Engineering	15.03.2018

FDPs/ SDPs organized : (20)

Sl. No.	Name of the Event	Convener/ Coordinator	Resource Persons and their affiliations	Dates of the event	No. of participants
Department of EEE (2)					
1.	A short term course on Electrified Mobility	Mr. T. Kosaleswara Reddy Mr. A. Munisankar Mr. U. Kamalkumar	Mr. Krishna Jaasti CEO, Amplify Cleantech Solutions, Bangalore Mr. Mahesh Patil Mr. Kiran Mr. Hitesh Thakkar Mr. Pankaj Rodey From Amplify Cleantech Solutions, Bangalore	14-05-2018 to 19-05-2018	55
2.	Faculty Development Program on Electrical Panel Board Design and Erection	Dr. T. Nageswara Prasad, Mr. B. Subba Reddy	Dr. N. M. G. Kumar, Professor, SVEC Dr. S. Krishnamaraju, Associate Professor, SVEC, Mr. M. Manohara, Associate Professor, SVEC	23-03-2018	25
3.	Faculty Development Program on "Embedded based Power and Motor control solutions using ST CAE"	Dr. S. Hemachandra Professor Department of EEE	Mr. Bhooshan Iyer, Vice President, Mr. Athiesh Kumar, Engineer ESS Pvt Ltd, Bangalore. Mr. Sreeram Mohan, Director, Development, Altair Engineering India Pvt. Ltd., Bangalore.	12-07-2017	30
Department of ECE (7)					
4.	29th IIRS Outreach Programme on, "Hyperspectral Remote Sensing and its Applications"	Dr. A. B. Yadav,	1. Shri Vinay Kumar Scientist/Engineer – SG, IIRS, Dehradun. 2. Mrs. Manu Mehta, Scientist/Engineer – SG, IIRS, Dehradun. 3. Mrs. Richa U Sharma Scientist/Engineer – SG, IIRS, Dehradun. 4. Dr. Anil Kumar Scientist/Engineer – SG, IIRS, Dehradun. 5. Shri Justing George K Scientist/Engineer – SG, IIRS, Dehradun. 6. Dr. Hitendra Padalia Scientist/Engineer – SG, IIRS, Dehradun. 7. Ms. Asfa Siddiqui Scientist/Engineer – SG, IIRS, Dehradun. 8. Dr. Vaibhav Garg Scientist/Engineer – SG, IIRS, Dehradun.	19-02-2018 to 13-03-2018	38
5.	FDP on, "MATLAB-Signal Processing with Simulink"	Dr. P.V. Ramana,	Ms Elza Jhon, Trainee Engineer, Mathworks Pvt Ltd, Bangalore.	07-02-2018 to 09-02-2018	20

Sl. No.	Name of the Event	Convener/ Coordinator	Resource Persons and their affiliations	Dates of the event	No. of participants
6.	FDP on, "Antenna Design and Simulation using FEKO – EM Simulation Tool"	Dr. V. R. Anitha,	Ms. Soundarya Venkatesan, Application Engineer, Altair India Ltd., & Silicon Microsystems, Bengaluru	19-01-2018 to 20-01-2018	48
7.	Twenty-eight IIRS Outreach Programme On "Close Range Photogrammetry and Terrestrial Laser Scanning"	Dr. A. B. Yadav,	1. Dr. Poonam S. Tiwari, Scientist/Engineer – SG, IIRS, Dehradun. 2. Dr. Hina Pande, Scientist/Engineer – SG, IIRS, Dehradun. 3. Mr. S. Raghavendra, Scientist/Engineer – SG, IIRS, Dehradun	08-01-2018 to 12-01-2018	39
8.	AICTE Sponsored National Seminar on, "Research issues on Nano-Particles and Nano-Bio Sensor in Agriculture"	Dr. P. Geetha,	1. Dr T.N.V.K.V. Prasad, Senior Scientist Regional Agricultural Research Station, A.N.G.Ranga Agricultural University Tirupati-517502 2. Dr P. Sudhakar, Professor & Head, Department of Crop Physiology, S.V. Agricultural College, Tirupati-517 502 3. Dr. V.Sumathi, Professor & Head, Department of Anthropology, S.V. Agricultural College, Tirupati-517 502. 4. Dr.V.Sudhakar, Scientist, ADA, Bangalore.	24-11-2017 to 25-11-2017	120
9.	FDP on, "Project Based Learning with MATLAB"	Dr. P.V. Ramana,	1. Naga Chakrapani Pemmaraju, Sr. Application Engineer, Math Works PVT. LTD, Bengaluru. 2. Prasanna Deshpande, Sr. Application Engineer, Math Works PVT. LTD, Bengaluru, 3. Jenukuti Prem Kumar, Product Manager, Capricot Technologies PVT LTD., Hyderabad.	12-10-2017	78
10.	IIRS out-reach Program on, "UAV Remote Sensing and Applications"	Dr. A. B. Yadav,	1. Ms. Shefali Agrawal, Scientist/Engineer – SG, IIRS, Dehradun. 2. Mr. Chirag Gupta, Scientist/Engineer – SG, IIRS, Dehradun. 3. Mr. Raghavendra Sara, Scientist/Engineer – SG, IIRS, Dehradun. 4. Ms. Minakshi Kumar, Scientist/Engineer – SG, IIRS, Dehradun. 5. Mr. Shashi Kumar, Scientist/Engineer, SG, IIRS, Dehradun	03-07-2017 to 07-07-2017	30

Sl. No.	Name of the Event	Convener/ Coordinator	Resource Persons and their affiliations	Dates of the event	No. of participants
Department of CSE (1)					
11.	Faculty Development Program on 'IOT and Big Data Analytics'	Coordinator: Dr. M. Sunil kumar Co- coordinator: Mr. D. Ganesh, Mr. Sreenivasa Chakravarthi,	Prof. DVLN Somayajulu NIT Warangal Dr R B V Subramanyam NIT Warangal DrRashmiRanjan Rout NIT Warangal Sri Madhusudhan, Orange Research Labs, Hyderabad Aravinda Reddy, GainSpan India, Bangalore S Pavan Kumar, Citi Bank - Data Science Division, Bangalore	20-11-2017 to 25-11-2017	67
12.	A Two Day National Level Seminar on "Emerging Trends and Research Challenges in Software Defined Networks"	Dr. V. V. Rama Prasad Dr. M. Sakthivel	Dr. Meena Narayan, VIT, Vellore Dr. S. Kailash, CDAC, Chennai Prof. G. Siva Shanmugam, VIT, Vellore Prof. Abdul Gafer, VIT, Chennai Prof. C. Madhusudhana Rao Sree Vidyanikethan Engg.College	15-12-2017 to 16-12-2017	69
Department of IT (2)					
13.	AICTE Sponsored A Two Week Faculty Development Programme on Challenges and Current Solutions of Cyber Physical Systems (CCSCPS)	Dr. K. Ramani, Convener Mr. Shaik Munwar Mr. P. Bhasha Coordinators	Prof. C. S. R. Prabhu Director, KMIT, Hyderabad Dr. S. Selvakumar Professor, NIT, Trichy Dr. K. Kanchana Associate Professor, SSN College of Engg., Chennai Dr. K. Ramani Professor & Head of IT, SVEC, Tirupati Prof. A. Krishnamoorthy VIT, Vellore Dr. K. Khaja Baseer Associate Professor of IT SVEC, Tirupati Mr. Shaik Munwar Assistant Professor of IT SVEC, Tirupati Dr. V. Saritha Professor of CSE, SVEC, Tirupati Dr. N. M. G. Kumar Professor of EEE, SVEC, Tirupati Mr. A. Srinivasulu Associate Professor of IT SVEC, Tirupati Dr. S. Magesh Professor of CSE, Savitha School of Engg., Savitha University, Chennai	11-12-2017 to 23-12-2017	75

Sl. No.	Name of the Event	Convener/ Coordinator	Resource Persons and their affiliations	Dates of the event	No. of participants
			Dr. K. C. Vara Prasad Professor of ME SVEC, Tirupati		
			Mr. T. Sivarama Krishna Assistant Professor of CSE, JNTUK, Vijayanagaram		
			Dr. K. Saruladha, Professor of CSE, Pondicherry Engineering College, Puducherry		
			Dr. B. Narendra Kumar Rao Professor of CSSE, SVEC, Tirupati		
			Mr. P. Bhasha Assistant Professor of IT SVEC, Tirupati		
			Mr. G. Hemanth Kumar Assistant Professor of EIE SVEC, Tirupati		
			Dr. O. Obulesu Associate Professor of IT, SVEC, Tirupati		
			Dr. M. Rajasekhara Babu Associate Professor, School of Computer Engineering VIT University, Vellore		
			Dr. L. D. Dhinesh Babu Associate Professor, School of Information Technology and Engineering, VIT University, Vellore		
			Dr. V. Madhu Viswanatham Associate Professor School of Computer Engineering VIT University, Vellore		
			V. Siva Mani Srinivasa Varma Assistant Professor, IIIT, Kanchipuram		
			Mr. Mohammad Zafar Ali Khan IIT, Hyderabad		
			Dr. Venkata Krishna Professor SPMVV, Tirupati		
			Mr. Srinivasa Kongara Infosys, Bangalore		
			Dr. Noor Mahammad Assistant Professor, IIIT, Kanchipuram		
			V. Siva Mani Srinivasa Varma Assistant Professor, IIIT, Kanchipuram		
			Mr. Srinivasa Reddy JNTUH, Hyderabad		
			Rajesh Ekkaladevi Cyber Forensics & Information Security of CSE, JNTUH, Hyderabad		

Sl. No.	Name of the Event	Convener/ Coordinator	Resource Persons and their affiliations	Dates of the event	No. of participants
14.	Two Day Faculty Development Programme on "MoodleCloud: An ICT for Effective Educational Communication"	Dr. K. Khaja Basheer, Ms. C. Silpa	Dr. K. Khaja Baseer Associate Professor of IT SVEC, Tirupati. Ms. C. Silpa Assistant Professor of IT SVEC, Tirupati.	01-01-2018 to 02-01-2018	35
Department of CSSE (3)					
15.	AICTE & SERB Pre Conference Workshop on "Machine Learning and its Applications: Theory and Hands On"	Mr. B. Rakesh	Dr. Naresh Manwani Assistant Professor Machine Learning Lab IIIT Hyderabad Dr M Naresh Babu Associate Professor Dept. of CSSESree Vidyanikethan Engineering College	03-01-2018	100
16.	DST SERB sponsored International Conference on "Cognitive Science & Artificial Intelligence"	Dr.M.Naresh babu, Mr.Ashraf Ali Shaik	Dr. Maode Ma Assoc.Professor School of Electrical & Electronic Engineering Nanyang Technological University Nanyang Avenue Singapore -639798 Dr. B.K.Tripathy School of computer science and engineering,VIT University,Vellore,Tamilnadu Dr. Bapi Raju,IIIT-H,University of Hyderabad Dr S. Pushpa, Prof & Head Dept of Computer Science and Engineering St.Peters University,Avadi,Chennai	03-07-2017 to 05-07-2018	75
17.	AICTE - SERB sponsored Second International Conference on "Cognitive Science & Artificial Intelligence"	Dr.M.naresh babu, Mr.DR Kumar Raja	Prof. V S Chandrasekhar Pammi, University of Allahabad, Allahabad Dr. Annappa, Associate Professor, National Institute of Technogy annappa@nitk.ac.in annappa@gmail.com Dr. Pruthvi Sekhar Pagala Specialist,KPIT,Bangalore	04-01-2018 to 05-01-2018	115
Department of MECH (3)					
18.	A Two Day Short Term Training Programme on "Conceptual Design and Innovative Manufacturing using SOLIDWORKS"	Mr.A.Venkatesh, Mr. G. Dileep Kumar	Mr. Mahender Ganna, Senior Design Engineer, Shreya Global Technologies, Hyderabad Mr. J. Sharath Chandra, Mechanical Engineer, Shreya Global Technologies, Hyderabad	23-03-2018 to 24-03-2018	66
19.	APSSDC Siemens Skill Development Training Programme for APSWREIS, Pileru Girl Students	Dr.K.C.Varaprasad, Mr. A. Venkatesh	Mr. Arun, Mr. Karthik, Mr. Murali, Mr. Ravindra Siemens Trainers,SVEC	27-03-2018 to 09-04-2018	42
20.	APSSDC Siemens Skill Development Training Programme on Welding for Government ITI	Dr.K.C.Varaprasad, Mr. A. Venkatesh	Mr. Karthik Siemens Trainer,SVEC	23-04-2018 to 05-05-2018	14

Volunteers in NSS regular camps and a special camp during 2017-18.



Volunteers interacting with villagers during Door to Door Campaign on Swachh Phakwad



Volunteers planting saplings near village panchayath school premise



Volunteers Conducting Swachh Bharath Rally in an adopted village



Volunteers getting the data during a survey



Volunteers educating the children about Global Warming



Volunteers planting tree saplings

Blood Donation Camp (19th March, 2018)



Mr. Vishnu Manchu, CEO , SVET at Blood Donation Camp



SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)

SREE SAINATH NAGAR, TIRUPATI-517 102

Department of _____
STUDENT FEEDBACK ANALYSIS FORMAT

Class:

Subject:

Sl. No.	Parameter	Very Good	Good	Satis factory	Un Sat	Attempted	Omitted
1.	Knowledge base of the teacher						
2.	Communication Skills						
3.	Sincerity/Commitment of the teacher						
4.	Interest generated by the teacher						
5.	Ability to explain the relevance and applications of the subject						
6.	Ability to combine content with other courses						
7.	Accessibility of the teacher in and out of the class						
8.	Ability to design quiz/test/assignment/examination and project to evaluate students' understanding of the course						
9.	Provision of sufficient time for interacting and clearing doubts						
10.	Overall rating						

PRINCIPAL

Academic Calendar for the Year 2018-19

For

I B. Tech – I Semester

Induction Training	02.07.2018 to 14.07.2018	2 weeks
<i>I Spell of Instructions</i>	16.07.2018 to 08.09.2018	8 weeks
Diagnostic Tests	From 30.07.2018 (3 working days)	
I Mid-term Examinations	10.09.2018 to 15.09.2018	1 week
<i>II Spell of Instructions</i>	17.09.2018 to 17.11.2018	9 weeks
Remedial Classes	From 24.09.2018 (10 working days)	
II Mid-term Examinations	19.11.2018 to 24.11.2018	1 week
Preparation and Practicals	26.11.2018 to 08.12.2018	2 weeks
Semester-End Examinations	10.12.2018 to 20.12.2018	2 weeks
Semester-Break	21.12.2018 to 29.12.2018	1 week
Commencement of Class work for II- Semester	31.12.2018	-

I B. Tech – II Semester

<i>I Spell of Instructions</i>	31.12.2018 to 23.02.2019	8 weeks
Diagnostic Tests	From 16.01.2019 (3 working days)	
I Mid-term Examinations	25.02.2019 to 01.03.2019	1 week
<i>II Spell of Instructions</i>	05.03.2019 to 03.05.2019	9 weeks
Remedial Classes	From 21.03.2019 (10 working days)	
II Mid-term Examinations	06.05.2019 to 10.05.2019	1 week
Preparation and Practicals	11.05.2019 to 25.05.2019	2 weeks
Semester-End Examinations	27.05.2019 to 08.06.2019	2 weeks
Summer Vacation	10.06.2019 to 22.06.2019	2 weeks
Commencement of Class work for II B. Tech. I Semester	24.06.2019	-

Date: 12-07-2018


DEAN (Academics)


PRINCIPAL

Academic Calendar
For
M. Tech
(for 2018-2019 admitted batch)

I-Semester		
<i>I-Spell of Instruction</i>	27.08.2018 to 20.10.2018	8 weeks
I Mid-term Examinations	22.10.2018 to 27.10.2018	1 week
<i>II-Spell of Instruction</i>	29.10.2018 to 29.12.2018	9 weeks
II-Mid-term Examinations	31.12.2018 to 07.01.2019	1 week
Preparation & Practicals	08.01.2019 to 19.01.2019	2 weeks
Semester-End Examinations	21.01.2019 to 05.02.2019	2 weeks
Semester Break	06.02.2019 to 16.02.2019	2 weeks
Commencement of II Semester	18.02.2019	--

II-Semester		
<i>I-Spell of Instruction</i>	18.02.2019 to 13.04.2019	8 weeks
I Mid-term Examinations	15.04.2019 to 22.04.2019	1 week
<i>II-Spell of Instruction</i>	23.04.2019 to 25.05.2019	5 weeks
Summer Vacation	27.05.2019 to 22.06.2019	4 weeks
<i>Continuation of II-Spell of Instruction</i>	24.06.2019 to 20.07.2019	4 weeks
II-Mid-term Examinations	22.07.2019 to 27.07.2019	1 week
Preparation & Practicals	29.07.2019 to 10.08.2019	2 weeks
Semester-End Examinations	13.08.2019 to 28.08.2019	2 weeks
Commencement of Project Work (III & IV Semesters)	29.08.2019	--

Dt. 23-08-2018


Dean (Academics)


PRINCIPAL

Academic Calendar for the Year 2018-19

Master of Computer Applications (2018-19 Admitted Batch)

MCA I Semester

<i>I Spell of Instructions</i>	13-08-2018 to 05-10-2018	8 Weeks
I Mid-term Examinations	08-10-2018 to 12-10-2018	1 Week
<i>II Spell of Instructions</i>	13-10-2018 to 22-12-2018	10 Weeks
II Mid-term Examinations	24-12-2018 to 29-12-2018	1 Week
Preparation and Practical	31-12-2018 to 04-01-2019	1 Week
End Examinations	07-01-2019 to 19-01-2019	2 Weeks
Commencement of Class Work for II Semester	21-01-2019	

MCA II Semester

<i>I Spell of Instructions</i>	21-01-2019 to 09-03-2019	7 Weeks
I Mid-term Examinations	11-03-2019 to 15-03-2019	1 Week
<i>II Spell of Instructions</i>	16-03-2019 to 03-05-2019	7 Weeks
Summer Vacation	06-05-2019 to 31-05-2019	4 Weeks
<i>II Spell of Instructions Contd..</i>	03-06-2019 to 22-06-2019	3 Weeks
II Mid-term Examinations	24-06-2019 to 28-06-2019	1 Week
Preparation and Practical	29-06-2019 to 05-07-2019	1 Week
End Examinations	08-07-2019 to 20-07-2019	2 Weeks
Commencement of Class Work for III Semester	22-07-2019	

Date: 08-08-2018


DEAN (Academics)


PRINCIPAL