

**The Annual Quality Assurance Report (AQAR) of the IQAC**  
**(For Autonomous Colleges)**

July 1, 2019 to June 30, 2020

**Part – A**

**Data of the Institution**

1. Name of the Institution                      Samrat Ashok Technological Institute  
Civil Lines, Sagar Road, Vidisha (M.P.)

- Name of the Head of the institution :    Dr. J.S.Chouhan
- Designation:    Director
- Does the institution function from own campus: Yes
- Phone no./Alternate phone no.            07592250121
- Mobile no. 9826244840
- Registered Email [sati@satiengg.org](mailto:sati@satiengg.org)
- Alternate Email [director@satiengg.org](mailto:director@satiengg.org)
- Address            :Civil Lines
- City/Town        : Vidisha
- State/UT         : M.P.
- Pin Code         : 464001

2. Institutional status:

- Autonomous Status ( *provide the date of Conformant of Autonomous Status*): Yes  
May1, 2016
- Type of Institution: Co-education/Men/Women : Co-education
- Location : Rural/Semi-urban/Urban: Urban
- Financial Status: Grants-in aid/ UGC 2f and 12 (B)/ Self financing  
(please specify)    **Grants-in-aid and UGC 2f and 12 (B)**

- Name of the IQAC Co-ordinator/Director: Dr. Jetendra Pasrashar
- Phone no. /Alternate phone no. : 07592250121
- Mobile: 9424415354
- IQAC e-mail address: iqac@satiengg.org
- Alternate Email address: jparashar@satiengg.org

3. Website address: [www.satiengg.in](http://www.satiengg.in)

Web-link of the AQAR: (Previous Academic Year):

<http://www.satiengg.in/Academics/IQAC.aspx>

4. Whether Academic Calendar prepared during the year?

Yes/No....., if yes, whether it is uploaded in the Institutional website: Yes

Weblink: <http://www.satiengg.in/Academics/AcademicCal.aspx>

#### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 <sup>st</sup>	B	2.36	29/03/2016	28/03/2021
2 <sup>nd</sup>				
3 <sup>rd</sup>				
4 <sup>th</sup>				
5 <sup>th</sup>				

6. Date of Establishment of IQAC: DD/MM/YYYY: 28/11/2015

#### 7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item / Title of the quality initiative by IQAC	Date & duration	Number of participants / beneficiaries
Meeting of IQAC	02.03.2019	17
NBA accreditation	2019	2 Programs

8. Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP /World Bank/ CPE of UGC etc.

Institution / Department	Scheme	Funding	Year of award with	Amount
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/ Faculty		agency	duration	
Samrat Ashok Technological Institute Vidisha	TEQIP- III	NPIU	2017	15 Crore

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: **Yes**

\*upload latest notification of formation of IQAC **uploaded**  
[www.satiengg.in](http://www.satiengg.in) IQAC

10. No. of IQAC meetings held during the year: **01**

The minutes of IQAC meeting and compliance to the decisions are uploaded on the institutional website: Yes/No : **Yes**

11. Whether IQAC received funding from any of the funding agency to support its activities during the year? Yes No **✓**

If yes, mention the amount: Year:

12. Significant contributions made by IQAC during the current year (maximum five bullets)

Facilitated following activities:

- \* Submission of SAR for NBA accreditation
- \*Curriculum design / modification for various programmes in Board of Studies (BoS).
- \* Analysis of T&P Cell activities and improvements in the present status of placements.
- \* Activities held under TEQIP-III were discussed and planned to be carried out.
- \* Analysis of odd semester results.

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements / Outcomes
- Activities under TEQIP-III	Satisfactory
- Online teaching and evaluation during COVID	Achieved
- Improvement in result	Achieved

14. Whether the AQAR was placed before statutory body? Yes /No: No  
 Name of the Statutory body: Date of meeting(s):

15. Whether NAAC/ or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?  
 Yes / No: No Date:

16. Whether institutional data submitted to AISHE: Yes ✓ / No:  
 Year: Date of Submission:

17. Does the Institution have Management Information System?  
 Yes No ✓

Partly, for admission students depend on Students Academic Management System (SAMS). In the library there is a Library management system to access books, issue books, return books, reserve books, student transaction reports, book issue report, book return report and defaulter list. Accounts staff depends on accounts software for fees collection, DCR maintenance, and document management (CAPA) to fulfil their needs. Examination section of Institute uses the software (Academia) to manage examination systems on-line, from student's enrolment to issuance of mark-sheets and provisional certificates.

### Part-B

<b>CRITERION I – CURRICULAR ASPECTS</b>		
<b>1.1 Curriculum Design and Development</b>		
<b>1.1.1 Programmes for which syllabus revision was carried out during the Academic year</b>		
Name of programme	Programme Code	Dates of revision
B.Tech.	Mechanical Engg.	21.05.19
B.Tech.	EI	04.06.19
B.Tech	EE	3.06.19
B.Tech	CE	4.6.19
B.Tech	CSE	4.6.19
B.Tech	BME	4.6.19
B.Tech & M.Tech.	EC	3.6.19
B.Tech	PCE	3.6.19

B.Tech (Common Subject)	Physics	3.6.19			
B.Tech (Common Subject)	Chemistry	3.6.19			
B.Tech (Common Subject)	Mathematics	25.5.19			
B.Tech (Common Subject)	Humanities	4.6.19			
<b>1.1.2 Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year</b>					
<b>Programme with Code</b>	<b>Course with Code</b>	<b>Date of Introduction</b>			
B. Tech. EC	Managerial Economics (EC1831)	05/07/20			
B. Tech. EC	Language Lab (EC1836)	05/07/20			
B. Tech. EC	Internship – I (EC1837)	05/07/20			
B. Tech. EC	Internship – II (Evaluation) (personality development) (EC 1857)	05/07/20			
<b>1.2 Academic Flexibility :</b>					
<b>1.2.1 New programmes / courses introduced during the Academic year</b>					
Programme / Course		Date of introduction			
B.Tech. Mech. (Increase in intake) from 60 to 120		July 2019			
B.Tech. EI (Increase in intake) from 60 to 120		July 2019			
<b>1.2.2 Programmes in which Choice Based Credit System (CBCS) / Elective Course System implemented at the College level during the Academic year:</b>					
In all the UG and PG courses Elective courses are offered to the students and modified as per the requirement from time to time.					
Following new elective course was offered in the present academic year:					
EI- NA Internet of Things (DE-5 EI1872) was introduced as an elective course on 05/07/2020					
Name of Programmes adopting CBCS	<b>UG</b>	<b>PG</b>	Date of implementation of Elective Course System	<b>UG</b> All courses	<b>PG</b> All courses
<b>1.3 Curriculum Enrichment</b>					
<b>1.3.1 Value-added courses imparting transferable and life skills offered during the year</b>					
Value added courses			Date of introduction	Number of students enrolled	
NIL					
<b>1.3.2 Field Projects / Internships under taken during the year</b>					
Project/Programme Title			No. of students enrolled for Field Projects / Internships		

Internship for B.Tech. II year students	281
Internship for B.Tech. III year students	288

#### 1.4 Feedback System

##### 1.4.1 Whether structured feedback received from all the stakeholders.

1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes ✓/No	Yes✓/No	Yes ✓ /No	Yes ✓ /No	Yes ✓ /No

Link for students feedback:

<https://docs.google.com/spreadsheets/d/1IWybbxpe6YdaMpif9XgBRFmJBQ4OnvJhrzEoDmIF-ww/edit?usp=sharing>

1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

- 1) At the end of semester feedback from the students regarding course taught and teaching learning methodology. It is further analysed by team of higher-ups.
- 2) Teacher submit their appraisal at the end of each session and annual increment is released on this basis of this appraisal.
- 3) BoG meetings are convened regularly to discuss matters about academic, finance and infrastructure. Minutes are regularly uploaded on website.
- 4) Parents suggestions are always considered at top priority to develop healthy and friendly environments in the campus.
- 5) Feedback from Alumni is also taken for overall improvement of Institute.

#### CRITERION II -TEACHING-LEARNING AND EVALUATION

##### 2.1 Student Enrolment and Profile

###### 2.1.1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
B Tech	567	For all the courses centralized counselling by State Govt. agency is performed	548
M Tech.	205		40
MCA	60		00
M.Sc.	100		18
MBA	60		52

##### 2.2 Catering to Student Diversity

###### 2.2.1. Student - Full time teacher ratio (current year data) GH-/PZC

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
19-20	2251	226	90	27	117

### 2.3 Teaching - Learning Process

#### 2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of teachers on roll	Number of teachers using ICT ( <i>LMS, e-Resources</i> )	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
117	100	Laptop, Internet facility, WiFi connectivity, Presentation softwares, LCD projector, Printer, Photocopier, Pen Drive, Scanners, Microphones, interactive white board and Audio systems	10	27	Online Videos like NPTEL videos, relevant youtube links through google classroom. Shared learning materials, slide handouts on Google Classroom. Computer-aided Language Lab with 60 systems, one master console, LAN facility and English Language Software for self- study by learners.

#### 2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentorship is provided to the students in the form Tutor Guardian (TG). TG maintains records (personal information as well as parent's information along with contact details) of assigned students. TG maintains student's attendance record and arranges meeting constantly with them at the end of the week. Academic status and other grievances (if any) are discussed and resolve them. Mentorship is also provided by other stake holders such as alumni and industry person.

Number of students enrolled in the	Number of fulltime teachers	Mentor: Mentee
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institution		Ratio
2477	117	20:1

## 2.4 Teacher Profile and Quality

### 2.4.1 Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
95	61	34	Nil	39

### 2.4.2 Honours and recognitions received by teachers

(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr.S.K.Dhakad	Associate Professor	ISTE, new Delhi best chapter award M.P.& CG as faculty advisor for chapter

## 2.5 Evaluation Process and Reforms

### 2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Program me Name	Progra mme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
Bachelor of Engineer ing-	<b>BE Final Year</b>	<b>2019</b>	14/11/2019	05/12/2019
		<b>2020</b>	15/09/2020	25/09/2020
B.Tech.	UG	I , III ,V & VII Semester	12-11-2019	11.12.2019
B. Tech.	UG	II, IV , VI & VIII Semester	12-04-2020	12.05.2020
M.Tech	PG	I & III Semester	12-11-2019	14.11.2019
M.Tech	PG	II & IV Semester	12-04-2020	16.05.2020

### 2.5.2 Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year



<b>*Do not include re-evaluation/ re-totalling</b>				
Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage		
NIL	2518	0%		
<b>2.6 Student Performance and Learning Outcomes</b>				
<b>2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution</b>				
<i>http://www.satiengg.in/UploadContent/Frm_ViewScheme.aspx</i>				
<b>2.6.2 Pass percentage of students</b>				
Program me Code	Programm e name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percentage
BM	B. Tech.	20	15	
Civil	B. Tech.	66	63	
CSE	B. Tech.	65	64	
EC	B. Tech.	60	56	
EE	B. Tech.	71	63	
EI	B. Tech.	55	51	
IT	B. Tech.	70	66	
ME	B. Tech.	67	60	
PCE	B. Tech.	39	32	
<b>Total</b>	<b>B. Tech.</b>	<b>546</b>	<b>543</b>	<b>99.45%</b>
MCA	MCA	06	06	
CTM	M.Tech.	16	15	
ENV.	M.Tech.	11	11	
Trans.	M.Tech.	19	16	
E.Ma.	M.Tech.	02	02	
Po.Ele.	M.Tech.	02	02	
APS	M.Tech.	01	01	
Tharm.	M.Tech.	03	03	
CSE	M.Tech.	01	01	
EC	M.Tech.	01	01	
Digi. Cam.	M.Tech.	01	01	
AppCh.	M.Sc.	14	13	
MBA	MBA	39	37	
<b>Total</b>		<b>116</b>	<b>109</b>	<b>93.96%</b>
<b>2.7 Student Satisfaction Survey</b>				
2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink):				
<a href="https://docs.google.com/spreadsheets/d/1IWybbxpe6YdaMpif9XgBRFmJBQ4OnvJhrzEoDmIF-ww/edit?usp=sharing">https://docs.google.com/spreadsheets/d/1IWybbxpe6YdaMpif9XgBRFmJBQ4OnvJhrzEoDmIF-ww/edit?usp=sharing</a>				

<b>CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION</b>				
<b>3.1 Promotion of Research and Facilities</b>				
3.1.1 The institution provides seed money to its teachers for research,				
Yes..... No. .... if yes give details				
Name of the teacher getting seed money	The amount of seed money	Year of receiving grant	Duration of the grant	
NIL				
<b>3.1.2 Teachers awarded National / International fellowship for advanced studies / research during the year</b>				
	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
National	Nil			
International	Nil			

<b>3.2 Resource Mobilization for Research</b>				
<b>3.2.1 Research funds sanctioned and received from various agencies, industry and other organisations:</b>				
Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the year
Major projects ( 8 Nos)	03 years	SERB, MPCST & MHRD	1,41,84,000	75,36,250/-
Minor Projects				
Interdisciplinary Projects				
Industry sponsored Projects				
Projects sponsored by the University/ College				
Students Research Projects <i>(other than compulsory by the College)</i>				
International Projects				
Any other(Specify)				
Total	03		1,41,84,000	75,36,250/-
<b>3.2.2 Number of ongoing research projects per teacher funded by government and non-government agencies during the years</b>				
08 / 117				
<b>3.3 Innovation Ecosystem</b>				

<b>3.3.1 Workshops / Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year</b>				
Title of Workshop / Seminar		Name of the Dept.		Date(s)
Two day workshop on “ Technical paper writing and patent filing”		TEQIP Coordinator		12.03.20 - 13.03.20
<b>3.3.2 Awards for Innovation won by Institution / Teachers / Research scholars/ Students during the year</b>				
Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
<b>3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year</b>				
Incubation Centre		Name		Sponsored by
SATI Vidisha		Start up Cell		MSME
Name of the Start-up		Nature of Start-up		Date of commencement
Designing and manufacturing of ventilators		Institutional, Dr. Deepak Chaihan		June, 2020
Homemade sanitizers		Institutional, Pradeep Semil		May 2020
Manufacturing of face shield cum head cover		Dr.S.K.Dhakad & marketed by Instaprintz Indore		June 2020
Automatic hand sanitizer machine		Dr.D.R.Sahu		June 2020
<b>3.4 Research Publications and Awards</b>				
<b>3.4.1 Ph. Ds awarded during the year</b>				
Name of the Department		No. of Ph. Ds Awarded		
Computer Science		03		
Civil Engineering		01		
<b>3.4.2 Research Publications in the Journals notified on UGC website during the year</b>				
Department	No. of Publication		Average Impact Factor, if any	
	International	National		
Civil	08	14		
Computer Science	04	06		
Mechanical	10	12		
Electronics	12	10		
Humanities and Management	01	02		
Applied Science	03	03		
<b>Total</b>	<b>38</b>	<b>37</b>		
<b>3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National / International Conference Proceedings per Teacher during the year</b>				
Department		No. of publication		
Civil		06		

Computer Science	05
Mechanical	06
Electronics	05
Applied Science	02

#### 3.4.4 Patents published/awarded during the year:

Patent Details	Patent status Published/ Filed	Patent Number	Date of Award
Intelligent System for Optimization the output of Solar Panels Working Indian System (Mechanical Engg. Department)	Published	201921024891	19/07/2019
Method of Statistical data Based Smart Reservation & Charging of Parking (Mechanical Engg. Department)	Published	201921026715	16/06/2019
Method for optimization of metal – ligand molecular docking using particle swarm optimization (PSO) (CSE Department)	Published	201921036166	09/09/2019
Soil monitoring device for efficient soil biome management and crop guidance (CSE Dept.)	Published	202021013678	10/07/2020

#### 3.4.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	umber of citations excluding self citations
EI-Application of nature inspired evolutionary algorithm optimization techniques in design of	S.Datar and A. Jain	Advanced Science Engineering and Medicine			SATI Vidisha	

cosine modulated filter bank						
“Experimental Study on Strength Parameters of Demolished Concrete by Adding Jute Fiber”	Sharma, Prateek Kumar, Sharma Pramod and B.Kirar	International Journal of Emerging Technologies and Innovative Research	2019	Vol. 6(2),pp.166-170,	SATI Vidisha	
“An Experimental Study on Compressive Strength and Permeability of Porous Concrete with the Use of Fly Ash for the Pavement Purpose”	Sahu, Mayank., Sharma Pramod and Kirar, B.	International Journal of Emerging Technologies and Innovative Research,	2019	Vol.6(5),pp.83-90,	SATI Vidisha	
Influence of Abrasion Resistance on Pavement Concrete Containing Steel Fiber	Kanchan Kushwaha, Dr.Rakesh Kumar and Dr.Pramod Sharma,	Journal of Emerging Technologies and Innovative Research	2019.	Volume6, Issue 6,ppno.469-476, June	SATI Vidisha	
Noise Monitoring in Vidisha City	Dr.Ashit Kumar Saxena,	International Journal of Basic and Applied Research  society of Education and Research	2019.	(ISSN: 22493352) (ISSN:2278050), Volume IX Number VI June	SATI Vidisha	
Release of Fertilizer using Geopolymer	Dr.Ashit Kumar Saxena, Sustain,	Journal of Emerging Technology and Innovative Research	2019.	(ISSN:2349-5162), Volume 6, Issue 6, June	SATI Vidisha	
Design of Sanitary Sewer Network for Railway Colony, Ratlam using SewerGems V8i Software,	Dr.Ashit Kumar Saxena,	Journal of Emerging Technology and Innovative Research	2019	(ISSN:2349-5162), Volume 6, Issue 6, July	SATI Vidisha	
Evaluation of Ground water Pollution and Characterization of Leachate Near Municipal Solid Waste Landfill site (Bhanpur),	Dr.Ashit Kumar Saxena,	International Journal for Scientific Research & Development	August 2019.	(IJSRD) ISSN: 43220714, Published in e-journal Volume 6, Issue 9,	SATI Vidisha	

Survey on Water Conservation	Vipin Gupta and Dr. Rajeev Jain, ,	International Journal for Scientific Research & Development	2019.	, Vol. 7, Issue 7, pp No. 327-330, Sept.	SATI Vidisha	
Expansive Soil Modification by the Application of Waste Materials	Nisha Kashyap and Dr. Rajeev Jain,	, Journal of Emerging Technologies and Innovative Research	2019	(JETIR), Volume 6, Issue 6, pp no. 299-304, June	SATI Vidisha	
An Experimental Study of Ground Improvement Technique by Sand Column	Pankaj Pandey & Dr. Rajeev Jain, ,	Journal of Emerging Technologies and Innovative Research,	2019.	Volume 6, Issue, 1, Jan.	SATI Vidisha	
Development of reinforced geopolymer pervious concrete	Dr. Pradeep Purohit, , ,	UGC approved	2019.	volume 6 issue 6, June	SATI Vidisha	
Enhancement of Index & Engineering Properties of Black Cotton Soil using RHA & WHA Including Lime,	Dr. Shubha Khatri, Dr. S.S. Goliya,	International Conference on Mechanical, Manufacturing, Industrial and Civil Engineering	2019.	(ICMMICE) held at Bhopal, India, pp. 1 to 6, 13th November,	SATI Vidisha	
“Design of Two-Wheeler Shed Parking for Nagar Palika Vidisha: A Case Study”	Vaishali Sen, Dr. S.S. Goliya, Dr. Shubha Khatri,	, An International Journal of Emerging Technologies and Innovative Research, an UGC approved Journal,	2019.	2019 Vol. 6, Issue 6, June	SATI Vidisha	
“Experimental study on partial replacement of fine aggregate with saw dust for M-30	Yogyta Namdeo, Dr. S.S. Goliya, Dr. Shubha	, An International Journal of Emerging Technologies	2019	2019 Vol. 6, Issue 6, June	SATI Vidisha	

grade concrete”	Khatri,	and Innovative Research, an UGC approved Journal,				
Use of Ceramic Tile Waste in Concrete Mix Design by Partial Replacement of Coarse Aggregate : An Experimental Study,	Sherin Khan, Dr. S.S. Goliya, Dr. Rakes Mehar,.	Journal of Emerging Technologies and Innovative Research	March 2019	(JETIR), JETIR, Volume 6, Issue 3 pp. 165-176,	SATI Vidisha	
Amritphale, S.S., “Tensile Strength of Geopolymeric Concrete”,	Vishwakarma D., Kirar, B. and ..	International Journal of Emerging Technologies and Innovative Research	2019	Vol. 6(6), pp. 463-469,	SATI Vidisha	
“An Experimental Study on Compressive Strength and Permeability of Porous Concrete with the Use of Fly Ash for the Pavement Purpose”	Sahu, M., Sharma, P. and Kirar, B.,	International Journal of Emerging			SATI Vidisha	
“Experimental Study on Strength Parameters of Demolished Concrete by Adding Jute Fiber”,	Sharma, P.K., Sharma, P. and Kirar, B.,	International Journal of Emerging Technologies and Innovative Research	2019	, Vol. 6(2), pp.166-170.	SATI Vidisha	
“An Experimental Study of Ground Improvement Technique by Sand Column”,	Pandey, P., Jain, R. and Kirar, B.,	International Journal of Emerging Technologies and Innovative Research,	2019	Vol.6(1),pp.563-569,.	SATI Vidisha	
“Design of Two-Wheeler Shed Parking for Nagar Palika Vidisha: A Case Study”,	Vaishali Sen, Dr.S.S.Goliya and Dr. Shubha Khatri,.	An International Journal of Emerging Technologies and	2019	2019 Vol. 6, Issue 6, June 2019	SATI Vidisha	

		Innovative Research, an UGC approved Journal,				
“Experimental study on partial replacement of fine aggregate with saw dust for M-30 grade concrete”,	Yogyata Namdev, Dr.S.S.Goliya and Dr. Shubha Khatri,	An International Journal of Emerging Technologies and Innovative Research, an UGC approved Journal	2019	2019 Vol. 6, Issue 6, June 2019	SATI Vidisha	
“Comprehensive Study on Effect of Partial Replacement of Natural Sand by Artificial Sand and Cement by Rice Husk Ash, on Characteristic Strength of Concrete”,	Anand Kumar Singh, Prof. Bharat Singh Chauhan	International Research Journal of Engineering and Technology (IRJET), an UGC approved Journal	2019	2019 Vol. 6, Issue 12, Dec 2019	SATI Vidisha	
“A Brief review on Torque Control of Induction Motor for Electrical Vehicle Applications”,	Sudhir Sharma	International Conference on Renewable Energy Innovation Research and Applications	28/12/2019	3rd. IC-REIRA-2019, RGPV Bhopal.,	SATI Vidisha	
“An overview of Electrical Vehicle and possibilities in future”	Sudhir Sharma, 3rd	International Conference on Renewable Energy Innovation Research and Applications	27/12 2019	. IC-REIRA-2019, RGPV Bhopal,	SATI Vidisha	
Movie Recommendation System: Content-Based and Collaborative Filtering	Sandeep K. Raghuwanshi, Rajesh Kumar Pateriya	International Journal of Computer Sciences and Engineering		Volume 6(4) pp. 476-481 ISSN 2347-2693	SATI Vidisha	



A Review on Visual Data Mining	Sunil Joshi [Page: 853-860 ]	Sentiment Analysis of WhatsApp Group Chat using R ( Springer ,	2019	[Page: 47-56 ]	SATI Vidisha	
An evaluation of tactile frictional behavior of the wooden material	PJain, AKSrivastava, JSRathore, SShrivastava,	Journal of Physics: Conference		Series1240(1),0 12120	SATI Vidisha	
Radio Frequency Energy Harvesting Using Microstrip Antenna	, S Shrivastava, R Chauhan, R Yadav, S Sharma, VK Singh 4	Journal of Telecommunication, Switching Systems and Networks		(3), 12-15	SATI Vidisha	
Security Enhancement in MANETs Using Fuzzy-Based Trust Computation Against Black Hole Attacks	AKJain, V Tokekar, SShrivastava,,	Information and Communication Technology		39-47	SATI Vidisha	
Stratigraphy and correlation of Mesoproterozoic rocks associated with Moharcauldron, Shivpuri district, Madhya Pradesh,	VP Gaur, H Survanshi, SK Shrivastava, KV Nambiar,	Journal of the Geological Society of India		88 (5), 603- 608	SATI Vidisha	
Analysis on translation quality of English to Hindi online translation systems - a review	EGupta, S.Shrivastava,	International Journal of Computer Applications		975,8887	SATI Vidisha	
Opinion Mining of Twitter Data using Hive	P Kirar, D Sain, SK Shrivastava,	International Journal of Computer Applications		156 (1)	SATI Vidisha	
Kernel K-means clustering for phishing website and malware categorization	K Sahu, SK Shrivastava,	International Journal of Computer Applications		111 (9)	SATI Vidisha	
Evaluation of Clustering around Weighted Prototype and Genetic Algorithm for Document Categorization	G Jain, SK Shrivastava,	International Journal of Computer Applications		125 (14), 21-27	SATI Vidisha	
Information and Communication Technology (ICT) as a Characteristic Tool for Development of Tribes: A Study by Using Data Mining	M Singh, SK Shrivastava ,	Journal of Computer and Mathematical Sciences		6(9),495 -503	SATI Vidisha	
An approach for recommender system by combining collaborative filtering with user demographics and items genres	SK Tiwari, SK Shrivastava,	International Journal of Computer Applications		128 (13), 16-24	SATI Vidisha	
Process optimization for	K Gupta, S	Journal of		4 (3), 00129	SATI Vidisha	

formulating Trigonellafoenum- graecum and Gymnemasylvestre added vegetable cereal mix using response surface methodology	Shrivastava, P Jain, M Jain,	Nutritional Health & Food Engineering				
“Vibration Frequency Optimization of Automobile Leaf Spring Using Different Angles of Orientation of Glass Fiber	Vandana Purohit, A. Manoria, P. Agarwal ,Sanjay Jain				SATI Vidisha	
“ A review of Multi Attribute Utility Technique combine with Linear Programming Method”	Govind Singh Raghuwanshi, Dr. Pankaj Agarwal, Dr. P.L.Verma,	International Journal of Current Engineering and Scientific Research	November 2019.	(IJCESR), www.troindia.in /journal/ijcesr/, ISSN (online): 2394-0697, Vol. -6 , Issue - 9 ,	SATI Vidisha	
Selection of Vehicle by using Multi attribute Utility Technique Combined with Linear Programming Method “	Govind Singh Raghuwanshi, Dr. Pankaj Agarwal, Dr. P.L.Verma, ,	“International Journal of Advances in Production and Mechanical Engineering,	October 2019.	www.troindia.in /journal/ijapme/ , ISSN (online): 2394-6210, Vol. -5 , Issue -5	SATI Vidisha	
“Experimental Approach on Minimization of capital cost and Operating cost in Earth Moving machine by Retrofit Simple Mechanism”	Vikas Shakya, Dr. P.L. Verma, Dr. Pankaj Agarwal, Dr. Lokesh Bajpai,	International Journal for Research in Applied Science and Engineering Technology		(IJRASET) Vol. 6, Issue 2 ,February 2018, Im pact Factor : 6.7 .	SATI Vidisha	
Cost Benefit Analysis of Window Air conditioning system with evaporative cooled condenser,	Prachi KanherkarC P Singh Sanjay Katarey, International Volume-	Journal of Innovative Technology and Exploring Engineering	2019	8 Issue-11, September	SATI Vidisha	
“an identification and exploitation of constraint in the delayed delivery of projects - a case study”,	Raunak Gupta, Raghuraj Singh, P. L. Verma&Saura	International Journal of Mechanical and Production	Apr 2019,	(IJMPERD) Special Issue, pp.83-89,	SATI Vidisha	

	bhKhotiyan,	Engineering Research and Development				
“Selection of vehicle by using multi attribute utility technique combined with linear programming method”	Govind Singh Raghuwanshi, Dr. Pankaj Agarwal and P. L. Verma,	International Journal of Advances in Production and Mechanical Engineering	2019	(IJAPME) Vol-5, Issue-5, 2019 pp. 1-11,	SATI Vidisha	
“Lighting More of the Way”,	Gupta Raunak and Verma P. L.,	Lean & Six Sigma Review (LSSR) Magazine, American Society of Quality	2019	(ASQ) Vol. 18, No.3, May 2019, pp. 20-24.	SATI Vidisha	
“A review of multi attribute utility technique combine with linear programming method”	Govind Singh Raghuwanshi, Dr. Pankaj Agarwal and P. L. Verma (2019),	International Journal of Current Engineering and Scientific Rresearch	2019	(IJCESR), Vol-6, Issue-9, 2019 pp.68-71	SATI Vidisha	
“ review on various practices fatigue analysis of nuclear power plant piping components”	Dinesh Agrwal, S.K. Dhakad	International Research Journal of Engineering and Technology	2019	published in (IRJET) ,Vol. 05,issue 12,e-ISSN 2395-0056, p-ISSN 2395-0072, impact factor 7.211,p.p.1469-1475 year 2019	SATI Vidisha	
“ Life estimation of piping components of nuclear power plant for safe operation A Review”	Dinesh Agrwal, S.K. Dhakad	published in Anusandhan Rabindranath Tagore University	2019	Vol.VIII, Issue XV, macrh 2019 ,ISSN 2278-4187, p.p.1649-53	SATI Vidisha	
“Bio-diesel Production and Performance , Emission Techniques A Review”	S.K. Dhakad & Siya Ram Patel (	published in International Conference on Smart	2019	ICSES-2019), from 6-7 April 2019	SATI Vidisha	

		Energy and Communication Poornima Institute of Engineering & Technology at Jaipur				
“Study on the effect of solar Energy A Review”	S.K. Dhakad & Siya Ram Patel	published in International Conference on Smart Energy and Communication Poornima Institute of Engineering & Technology at Jaipur	2019	(ICSES-2019), from 6-7 April 2019	SATI Vidisha	
Indicators optimization of supply chain management for medium and small scale industries	J P Shakya, Alpesh Jain,	(MSME), National Conference on Modern Tool in Engineering (MTE-2019) at SATI (Engg. College), Vidisha,	2019	Vol.1, PP-261-264, MAY 2019.	SATI Vidisha	
“Performance Analysis of Window air conditioning system with evaporative cooling for energy saving”	Kamlesh Kumar Sharma, R.L. Gupta Sanjaykatarey	Presented in National Conference on Modern Tools in ,5th April 2019, at SATI Vidisha.	5th April 2019,		SATI Vidisha	
“cost Benefit Analysis Of Window Air Conditioning System with Evaporative Cooled Condenser ”	Kamlesh Kumar Sharma, Sanjay Katarey	International Journal of Innovative Technology and Exploring Engineering	2019	(IJITEE), ISSN :2278–3075(Online), Volume-8 Issue-11, September 2019, Page No. 3761-3764.	SATI Vidisha	
“Two Step DM for Identification of Critical Equipments”	Ashish Khaira, R.K. Dwivedi	Engg. Review Journal Croatia	2019	Vol-39, Issue-2, ISSN-1330-9597, 2019	SATI Vidisha	
“A review of Power	Gaur J, Jain S. K haira A.	National Conference	2019	MTE-	SATI Vidisha	

Transmission Error”	(	onModernTool in Engineering		2019)ISBN-978-93-82346-25-8,SATI Vidisha2019		
"Analysis and Compression of ECG Signal using DDC Methods along with Feature Extraction",	Avijit Tripathi, Abhishek Jain and Aman Sharma,	International Journal of Research and Analytical Reviews	June 2019.	(IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.6, Issue 2, Page No pp.186-193,	SATI Vidisha	
“Color Reconstruction and Deblurring of Underwater Image using CLAHE and DWT”	Himani Bhagoriya and Abhishek Jain,	, Journal of Emerging Technologies and Innovative Research		(JETIR), Volume 6, Issue 8, August 2019.	SATI Vidisha	
“Analysis And Compression Of ECG Signal Using DDC Methods Along With Feature Extraction”,	Avijit Tripathi, Abhishek Jain, Aman Sharma,	International Journal of Research and Analytical Reviews	2019	(IJRAR), Volume 6, Issue 2, June 2019, pp186-193	SATI Vidisha	
“Spectral Efficiency and Deployment Cost efficiency Analysis of Mixed Millimeter Wave/Ultra High Frequency Band based Cellular Network ”	Mukesh Kumar Mishra, Aditya Trivedi	IEEE Transactions on Vehicular Technology,	2019	Volume 68 , Issue 7, pp 6565-6577, July 2019.	SATI Vidisha	
“Outage and ASE Analyses for Power Controlled D2D Communication”,	Praveen Pawar, Aditya Trivedi, Mukesh Kumar Mishra	IEEE System Journal,	Aug 2019.		SATI Vidisha	
“Sinusoidal Oscillator Realization Using Band-Pass Filter.	Ajay K. Kushwaha, Ashok Kumar,	Journal of The Institution of Engineers	2019	(India): Series B, pp. 1-10, 2019.	SATI Vidisha	
"Current-mode SIM Universal filter realization using dual-X multi output current conveyer."	Ashok Kumar, Ajay Kumar Kushwaha, and Nikhil Chander.	TENCON2019 - 2019IEEE Region 10 Conference	2019	(TENCON).IEE E, pp.2185-2189, 2019	SATI Vidisha	
“Spectrum Efficiency and BER Analysis of Massive MIMO Systems with QR-	. Tamanna Rajput,, Munna Lal		October 2019.	IJCSE, Vol. 07, no.10, pp.64-68,	SATI Vidisha	

RLS Channel Estimation Technique”	Jatav					
“Performance Analysis of 5G MIMO-OFDM Systems in Wireless Communications using Modified PTS Scheme”	Pooja Gautam, Munna Lal Jatav		October 2019.	IJCSE, Vol. 07, No. 10, pp. 69-73,	SATI Vidisha	
“Survey Paper on Performance Evaluation of 4G and 5G System using Space Time Block Coding Technique”	Dolly Panthi Munna Lal Jatav		September 2019.	IJCSE, Vol. 07, No. 09, pp. 181-185,	SATI Vidisha	
“BER and Magnitude Analysis of FBMC Transceiver based MIMO System for 5G Technologies”	Dolly Panthi, Munna La Jatav, Dr. J.V. Ogale		June 2019.	JETIR, Vol. 06, No. 06, pp. 885-888,	SATI Vidisha	
“Review Paper on Massive MIMO Systems with Channel State Information”	Tamanna Rajput,, Munna Lal Jatav		June 2019.	IJCSE, Vol. 07, No. 06, pp. 1016-1021,	SATI Vidisha	
“Survey Paper on PAPR Reduction for MIMO- OFDM Systems using Different PTS Scheme”	Pooja Gautam, Munna Lal Jatav		June 2019.	IJCSE, Vol. 07, No. 06, pp. 1022-1026,	SATI Vidisha	
“Application of Natural Inspired Evolutionary Algorithm Optimization Techniques in  Design of Cosine Modulated Filterbanks	Shilpa Datar and Alok Jain, ,	Advanced Science, Engineering and Medicine	2019	vol. 11, pp. 766-774, 2019	SATI Vidisha	
“Neural Modeling of Fetal Biometric  Parameters for Detection of Fetal Abnormality”,	Vidhi Rawat, Alok Jain, Vibhakar Shrimali and Sammer Raghuwnashi,	IETE Journal of Research,	Jan. 2019.	published online	SATI Vidisha	
Transactions on Computation Biology and Bio informatics	Sunil Dutt Sharma, Rajiv Saxenaand Sanjeev Narayan		Feb. 2019	DOI10.11.0 9TCBBIEE E/ACM	SATI Vidisha	

	Sharma,					
Cluster Head Selection and Packet Delivery Estimation Based on K-Means And FCM,	Anil Khandelwal Yogendra Kumar Jain (IJRTE),	International Journal of Recent Technology and Engineering	November 2019	DOI: 10.35940/ijrte.D9231.118419 Volume 8, Issue 4,	SATI Vidisha	
“Comparison of Autonomy and Study of Deep Learning Tools for Object Detection in Autonomous Self Driving Vehicles”,	Ayoush Johari, Preety DSwami,	Presentation in the conference	28-29 Feb. 2020 at RG PVBhopal.	IDEA-2K20	SATI Vidisha	
“Analysis of Some Non Alcoholic Beverages in the View of Quality”	Dr. Manorama Saini,	In the National Seminar organized by Department of Applied Science, SATI (Deg.) Vidisha (MP) on “Technical Aspects of Food Contamination and Adverse Health Effect”	28th February - 01st March 2019		SATI Vidisha	

### 3.4.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
EI-Application of nature inspired evolutionary algorithm optimization techniques in design of cosine modulated filter bank	S. Datar and A. Jain	Advanced Science Engineering and Medicine	2019			SATI Vidisha

Synthesis and Photoluminescence of silver and Europium codoped germinate tellurite oxyfluoride glasses	Sunil Patidar ,GF Ansari and S.K. Mahajan	Material today Proceedings <b>29(2020)1064-1066</b>	2020	.8		
Upconversion emission of Tm <sup>3+</sup> doped germinate tellurite glasses with Au-Ag core-shell nanoparticles	S.K. Mahajan G.F Ansari	AIP Conf. Proceeding <b>2162</b> , 020160 (2019)	2019	1		
Upconversion Emission of Ag Nanoparticles with Er <sup>3+</sup> /Yb <sup>3+</sup> ions in Tellurite Glasses under 980nm Laser Excitation	S.K. Mahajan J.Parashar	AIP Conf. Proceeding <b>2142</b> (2019), Page No. 070001-1-070001-5	2019	1		
Fluorescence Imaging of Er <sup>3+</sup> /Yb <sup>3+</sup> codoped Tungsten Tellurite Glasses with silver Nanoparticle	Ravi Jain and S.K. Mahajan	AIP conf. Proceeding Vol . <b>2115</b> , (2019) 030265-1-030265-4	2019	1		
Second harmonic generation by crossed surface plasma waves over a metallic surface	J.Parashar & Priyanka Jatav	Phys. Plasmas (AIP) <b>26</b> , 022301	2019	1.9 IF	2	

<b>3.4.7 Faculty participation in Seminars / Conferences and Symposia during the year :</b>				
No. of Faculty	International level	National level	State level	Local level
Attended Seminars / Workshops	07	80	28	25
Presented papers	03	10	05	06
Resource Persons	05	11	06	12



<b>3.5 Consultancy</b>			
<b>3.5.1 Revenue generated from Consultancy during the year</b>			
Name of the Consultant(s) department	Name of Consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Civil Engineering	Mix Design	M/s ADEN (Maint) Bhopal (Shravan Singh Yadav Gwalior	30000
Civil Engineering	Soil Testing	M/s CMO Nagar Palika Parishad Vidisha	4000
Civil Engineering	Mix Design	M/s Prashant Electricals	10000
Civil Engineering	Mix Design	M/s Prashant Electricals	10000
Civil Engineering	Proof Checking	M/s Prashant Electricals	20000
Civil Engineering	Mix Design	M/s AXEN/Const./Satna (Trishul Const. Bhopal	50000
Civil Engineering	Proof Checking	M/s Assistant Engineer M.P.Housing & Infrastructure Vidisha	50000
Civil Engineering	Mix Design	M/s Mehrtra Buidcon Pvt. Ltd. Rewa	10000
Civil Engineering	Mix Design	M/s H.L. Passey Pvt. Ltd. Bhopal	10000
Civil Engineering	Soil Consultancy	M/s Gurav K. Agarwal Vidisha	2000
Civil Engineering	Mix Design	M/s H.L. Passey Pvt. Ltd. Bhopal	10000
Civil Engineering	Proof Checking	M/s Atul Kurariya Vidisha	75000
Civil Engineering	Proof Checking	M/s B.R. Civil Const. Vidisha	38500
Civil Engineering	Proof Checking	M/s Atul Kurariya Vidisha	59500
Civil Engineering	Proof Checking	M/s CMO Nagar Palika Parishad Khurai	281642
Civil Engineering	Proof Checking	M/s Atul Kurariya Vidisha	52095
Civil Engineering	Proof Checking	M/s Surfex International Ahmadabad	20000

Civil Engineering	Soil Consultancy	M/s Feedback Infra Pvt. Ltd. Gurgaon	14000
Civil Engineering	Proof Checking	M/s B.R.Civil Construction Rewa	22856
Civil Engineering	Mix Design	M/s E.E. Br. Line Bhopal	10000
Civil Engineering	Proof Checking	M/s Shapens Const. Ltd. Sagar	20000
Civil Engineering	Proof Checking	M/s Trisul Const. Bhopal	45346
Civil Engineering	Mix Design	M/s EE (Const.-I) Bhopal (M/s H.L.Passey	30000
Civil Engineering	Mix Design	M/s CMO Nagar Palika Vidisha (M/s Deenesh Sharivastava Gwalior)	10000
Civil Engineering	Mix Design	M/s CMO Nagar Palika Vidisha (M/s SAI Const. Gwalior)	10000
Civil Engineering	Mix Design Testing	M/s CMO Nagar Palika Vidisha (M/s Padam Singh Sikrwar Gwalior)	10000
Civil Engineering	Soil Consultancy	Aman Jain Architect	2000
Civil Engineering	Proof Checking	S.R. Engineering Lucknow	20000
Civil Engineering	Proof Checking	B.R.Civil Construction Company Rewa (MP)	54000
Civil Engineering	Mix Design	H.L.Passey Engg. Pvt. Ltd. Bhopal	20000
Civil Engineering	Soil Testing	Pradeep Tiwari Mukharjee Nagar Vidisha.	2000
Civil Engineering	Proof Checking	M/s B.R.Civil Const. Rewa (M/s Aatvik Consultancy and Infrastructure Vidisha	55630
Civil Engineering	Construction and testing	Govt. and private companies	1408862/-

### 3.5.2 Revenue generated from Corporate Training by the institution during the year NIL

Name of the Consultant(s) & Department	Title of the Programme	Agenc y seekin	Revenue generated (amount in rupees)	Number of trainees
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		g trainin g		

### 3.6 Extension Activities

#### 3.6.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers co-ordinated in such activities	Number of students participated in such activities
NCC	14 MP BN NCC Vidisha	02	212 (Two hundred and twelve)
NSS camp at village Pairwasa		02	25

#### 3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year:

Name of the Activity	Award / recognition	Awarding bodies	No. of Students benefited
NCC Republic Day Parade	NCC cadets of our Institute secured first position in the senior category in the Republic Day program held at Police Ground, Vidisha on the occasion of 71st Republic Day	District Administration	44

#### 3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers co-ordinated such activities	Number of students participated in such activities
UNNAT BHARAT ABHIYAN & RURAL OUTREACH	Gram Panchayat, Kulhar on 10.02.20	Students discussed about the changing scenario in the construction industry and possible steps that can be taken for Environmental Protection.	02	30
Swachh Bharat Abhiyan	NSS Unit of Institute	On the occasion of Gandhi Jayanti "Say	04	120

		no to Plastic”	
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### 3.7 Collaborations

#### 3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of Activity	Participant	Source of financial support	Duration
Research	Dr. Ashish Khaira	TEQIP – III CRS Project	02 years
Research	Dr.Divya Rishi Sahu	TEQIP – III CRS Project	02 years
Research	Prof. Mukesh Azad	TEQIP – III CRS Project	02 years
Research	Dr. Mukesh Kumar Mishra	TEQIP – III CRS Project	02 years
Research	Dr.Ashok Kumar	TEQIP – III CRS Project	02 years
Research	Dr. Ashish Mishra	TEQIP – III CRS Project	02 years

#### 3.7.2 Linkages with institutions / industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	participant
Mutual	MoU	Insta Printz Indore	20.04.2018	Director of SATI and Official of Insudtry
Mutual	MoU	Robonomics AI India Private Limited (RAI)	22.06.2018	Director of SATI and Official of Insudtry
Mutual	MoU	Shatisteller ESPL, Bhopal	16.07.2018	Director of SATI and Official of Insudtry
Mutual	MoU	Society for Advanced Technologies, Bhopal	27.07.2018	Director of SATI and Official of Insudtry
Mutual	MoU	ITSC Technologies Pvt. Ltd.,	25.08.2019	Director of

		Bhopal		SATI and Official of Insudtry
Mutual	MoU	Aspiring Mind Assessment Pvt. Ltd. Haryana	28.08.2019	Director of SATI and Official of Insudtry

**3.7.3 MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year**

Organisation	Date of MoU signed	Purpose and Activities	Number of students / teachers participated under MoUs
CSIR	28 June 2019	Research, Seminar, Trainings	This MoU will cover entire Institute
NHAI	14.10.2020	Performance evaluation of awarded NH stretches and Research, Seminar, Trainings	Faculty and UG , PG (Transportation Engg. )Students of Civil Engineering Department
Louisiana Tech University Mhow,Indore	08.09.2020	Academics	This MoU will cover entire Instt.
Dr B R Ambedkar University Mhow,Indore	14.09.2020	Academics	This MoU will cover entire Institute

**CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES**

**4.1 Physical Facilities**

**4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year**

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
	7,09,00,000/-

**4.1.2 Details of augmentation in infrastructure facilities during the year**

Facilities	Existing	Newly added
Campus area	85 Acer	-
Class rooms	32 No.	-
Laboratories	55No.	04 (Center of excellence)
Seminar Halls	02 No.	-
Classrooms with LCD facilities	27 No.	-
Classrooms with Wi-Fi / LAN	27 No.	-
Seminar halls with ICT facilities	02 No.	02
Video Centre		01
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the current year.		40

Value of the equipment purchased during the year (Rs. in Lakhs)		6,00,00,000/-
Others		58,00,000/-

## 4.2 Library as a Learning Resource

### 4.2.1 Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA	Fully	03.10.09	2015

### 4.2.1 Library Services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	70082	6400000	1338	Rs 606033	71420	Rs. 7006033
Reference Books	4264	Approx. 1000000	NIL	NIL	4264	Approx. 1000000
e-Books	245	Rs 535815	52	Rs. 191919	297	Rs. 727734
Journals	55	Rs.103697	55	Rs.103697	110	Rs. 207394
e-Journals	275	Rs.671774	64	Through AICTE	64	Through AICTE
Digital Database	02	Through AICTE	02	Through AICTE	02	Through AICTE
CD & Video	2031	Through IIT Madras	NIL	Nil	2031	Through IIT Madras
Library automation	Yes Koha 3.8	Nil own expertise	Yes Koha 03.10.09	Nil own expertise	Yes	Nil own expertise
Weeding (Hard & Soft)	12032	Rs 425000	No	No	12032	Rs 425000
Others (specify)	NO	NO	NO	NO	NO	NO

4.2.2 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc :**NIL**

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e - content

## 4.3 IT Infrastructure

### 4.3.1 Technology Upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available bandwidth (MGBPS)	Others
Existing	655	05		05	05			1 GBPS	
Added	109								
Total	764								

### 4.3.2 Bandwidth available of internet connection in the Institution (Leased line)

1 GBPS NKN			
<b>4.3.3 Facility for e-content</b>			
Name of the e-content development facility		Provide the link of the videos and media centre and recording facility	
V V Natu Computer Centre		<a href="http://www.satiengg.in">www.satiengg.in</a> →central Library	
<b>4.4 Maintenance of Campus Infrastructure</b>			
<b>4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year</b>			
Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
	70,00,000/-		17,00,000/-
<b>4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website) :</b>			
<p>There is a building section which maintains all the infrastructural facilities and cleanliness of the Institute premises. Institute workshop provide support in with other required areas viz. welding, carpentry, vehicle maintenance. Electrical maintenance cell handles with the electrical related work and upkeep of electrical sub-station. All the class rooms, computer centres and laboratories are utilized full time during the odd and even semesters and their upkeep is done by the concerned Department. Time slots are given to each semester's students to access books and e-resources in the library. Regarding e contents students can use them from hostels also. During exam time library is operational on extended hours too. There are two big playgrounds and one indoor stadium in the campus along with volleyball and tennis court. Gymnasium facility is also available to the students of institute. Usage policies are framed by consultation with students and staff of the Institute.</p>			
<b>CRITERION V - STUDENT SUPPORT AND PROGRESSION</b>			
<b>5.1 Student Support</b>			
<b>5.1.1 Scholarships and Financial Support</b>			
	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support from institution	1) Post matric scholarship –SC	324	As per norms
	2) Post matric scholarship –ST	95	As per norms
	3)Post matric scholarship –OBC	605	As per norms
	4) MMJKY-	04	As per norms
	5)MMVY-	22	As per norms
	6)Rajmata Scindia Award	07	49450
	7)Shrimant Madhavrav Scindia Award	16	62300

Financial support from other sources			
a) National	1) Merit cum means	41	As per norms
	2) Central sector	17	As per norms
	3) Handicap scholarship	02	As per norms
	4) PMSSS		
	5) TEQIP-3 for GATE Exam	02 47	121375
b) International	ICCR scholarship	01	114400

**5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,**

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Employability Skill Training	30/07/2019	9	Universal Education
Industry Readiness Training	06/12/2019	12	Shram Samarthan Consultancy New Delhi
GATE Training	30/07/2019	46	Engineering Circle
Remedial coaching			

**5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year**

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2019-20	Employability Skill Training		9	-	06
	-T&P	314	508	53	169
2019-20	Employability Skill Training	47	-	12	-

**5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year :**



Institute has counselling cells for students, women counselling cell and an active feedback system. A complaint box is also placed at the main building. Tutor guardian system is followed so that student can share their problems to their TG. In hostels wardens interact with hostel inmates regularly along with matrons / caretakers. Periodically Institute higher authorities also interact with students in campus and also in hostels. Institute has zero tolerance policy towards ragging and is widely publicized. It also has anti-ragging squads. To act on disciplinary cases related to student a proctorial board takes the decision.

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
0	0	No grievance was reported

## 5.2 Student Progression

### 5.2.1 Details of campus placement during the year

On campus		Off Campus	
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
	508		
TCS		04	EI-TCS 04
Cap Gemini		03	Cap Gemini
Cognizant		01	Cognizant
Filtra consultants And Engineers		01	Filtra consultants And Engineers
HCL Technologies		01	HCL Technologies
Netherlands Hospital		01	
Filtra Consultants And Engineers		02	
ADS LABTECH		04	
Calvin Klein and Tommy Hilfiger		02	
Capgemini		40	
Ceasefire		12	
Cognizant		06	
Effectual Services		02	
HCL Technologies		09	
Infosys		20	
Innoeye Technologies Indore		01	
LIDO		04	
NIIT		04	
Prism Jhonson		04	
TCS		51	

TCS Codvita		05	
Tech. Mahindra		02	

### 5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2019-20	127	-	-	-	-

### 5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/ qualifying	Registration number / roll number for the exam
NET		
SET		
SLET		
GATE	53	314
GMAT		
CAT		
GRE		
TOFEL		
Civil Services		
State Government Services		
Any Other		

### 5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participants
1)Cricket Tournament 2)Samrat Utsav 3)Techno Vision	State level Institute level State level	Teams from various engineering college of MP Students of college Students from various college
Cricket Tournament	State	16 Teams
Karate Competition	State	7 Teams
Table Tennis Competition	State	7 Teams

### 5.3 Student Participation and Activities

#### 5.3.1 Number of awards/ medals for outstanding performance in sports / cultural activities at national / international level (award for a team event should be counted as one)

Year	Name of the award / medal	National / International	Sports	Cultural	Student ID number	Name of the student
07.09.19	Silver Medal	State level	Malkhamb competition			Four students


**5.3.2 Activity of Student Council & representation of students on academic & administrative bodies / committees of the institution (maximum 500 words)**

Students are the backbones of any Educational Institute and they play a major role in the progress of the university/ college/ department. At department level class representatives (CR's) are elected at the starting of the session. They act as point of contact between department and their classmates. They are responsible for student interaction and involvement in day to day activities. At college level, student clubs are promoted for the overall development of the students outside classroom environment. Samrat Ashok Technological Institute has many student clubs which are actively participating in seminars, conferences, workshops and cultural fests etc.

**5.3 Alumni Engagement**

**5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):**Yes

After the first batch which graduated out in 1965, the Institute has sent out, thousands of engineers and scientists throughout the India and abroad. An alumni association cell to connect alumni from all over the world through official website is managed by the Institute. Regular alumni meet are organised as per the request and feasibility through city wise / state wise or international. For the batches attaining 25 years and 50 years of their passing from the Institute Alumni meet is organised in December every year.

Many of these alumni, spread over the whole of the country and beyond have reached the top in their respective departments and organizations while the others have occupied senior and influential positions in society. All of them have a deep love and a high regard for their 'alma mater' and some who have been able to find time to visit the Institute now are struck by the spectacular progress made since they left years ago. The SATI local Alumni Associations has been formed in various cities and towns and they get-together sharing their loving memories during the college days.

Alumni Portal: <https://alumni.satiengg.in>

Alumni Registration page [http://satiengg.in/Alumni/Frm\\_AlumniRegistration.aspx](http://satiengg.in/Alumni/Frm_AlumniRegistration.aspx)

Alumni List <a href="http://satiengg.in/Alumni/RegisteredAlumni_Display.aspx">http://satiengg.in/Alumni/RegisteredAlumni_Display.aspx</a>
<b>5.3.2 No. of registered Alumni:</b> 5160
<b>5.3.3 Alumni contribution during the year (in Rupees) :</b>
NIL
<b>5.3.4 Meetings / activities organized by Alumni Association :</b>
On 01.11.2019, Inaugural function of Diamond Jubilee celebrations and Alumni meet
On 28.12.2019 Alumni Meet of 1994 Batch was organised.
On 29/02/2020, S.A.T.I. Alumni meet took place in Bhopal at Palash Residency where Alumni based in Bhopal shared their ideas for the betterment of the institution.
<b>CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT</b>
<b>6.1 Institutional Vision and Leadership</b>
<b>6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)</b>
1. Planning of academic activities and calendar after consultation with faculty members of each department. 2. Planning of various laboratories and procurement under TEQIP –III after due recommendations from respective departments.
<b>6.1.2 Does the institution have a Management Information System (MIS)?</b> Yes/No/Partial: Partial
<b>6.2 Strategy Development and Deployment</b>
<b>6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):</b>
❖ Curriculum Development: Within the affiliating University framework Board of studies of every course is constituted with members from the Institute, expert from premier Institutes and representative from alumni, student, parent and industry personal. After due consultation syllabus and scheme of every course is finalized which is then put before the academic council of the Institute for approval. After due approval from the academic council, the scheme and syllabus is implemented. Input from other sources and experts regarding recent trends and other aspects are also taken. Efforts

<p>are made to procure quality books and other resources in the Library.</p>
<p>❖ Teaching and Learning Outcome based education system is followed. Primarily class room teaching mode is adopted supplemented by e lecture delivery, usage of ICT sources. Mid semester test and final examination are taken to evaluate student performance. Equal emphasis is given to laboratory and tutorial sessions also to evaluate the learning of a student. Mechanism to identify slow and fast learners and the measures to be taken are in place.</p>
<p>❖ Examination and Evaluation Continuous evaluation is done on the basis of mid semester, end semester exam, laboratory performance, quiz and tutorials. Credit system is adopted.</p>
<p>❖ Research and Development Funds from TEQIP –III are made available to faculty and students to pursue their research ideas. Collaborative research activities with mentor Institute i.e. VNIT Nagpur under twining activity is made to improve R&amp;D in the Institute. Few new Centre of excellence are planned to take up innovative research projects leading to patent and product.</p>
<p>❖ Library, ICT and Physical Infrastructure / Instrumentation In the library there is a Library management system to access books, issue books, return books, reserve books, student transaction reports, book issue report, book return report and defaulter list. Library has procured several e contents from TEQIP -III funds. Automation of library with RF – ID is done. All the lecture class rooms have facility of projectors. Five smart class rooms and three lecture halls are equipped with all facility for ICT.</p>
<p>❖ Human Resource Management Regular training for faculty and staff is planned for updating their knowledge and skills.</p>
<p>❖ Industry Interaction / Collaboration MoU were signed with few industries to improve the internship and placement of students. Industrial tours of students with faculty member are also organised on priority basis. Industry person are invited to give lectures and interact with students.</p>

- ❖ Admission of Students  
To improve admission scenario few new courses are planned. The achievement of Institute is last 60 years will be the key point in attracting good students. Keeping this in mind, the branding of Institute through local media, social media and alumni is planned.

**6.2.2 : Implementation of e-governance in areas of operations:**

- ❖ Planning and Development  
Discussion with key players viz. BoG members, Dean, experts, University officials, Government officials are done using digital platforms.

- ❖ Administration  
Most of the office orders and their implementation is done in paper less mode. Social media groups are also created with faculty and members where the information is disseminated quickly and effectively.

- ❖ Finance and Accounts  
Tally software is used to keep the account books. Accounts staff depends on accounts software for fees collection, DCR maintenance, and document management (CAPA) to fulfil their needs.

- ❖ Student Admission and Support  
Partly, for admission students depend on Students Academic Management System (SAMS).

- ❖ Examination  
The examination section uses the software (Academia) to manage examination systems on-line starting from students' enrolment to issue of mark-sheets and provisional certificates.

**6.3 Faculty Empowerment Strategies**

**6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year**

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support

**6.3.2 Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year**

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
<b>6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year</b>					
Title of the professional development programme		Number of teachers who attended		Date and Duration (from – to)	
05 days STTP Training programme for faculty members SATI Vidisha collaboration with SPIU		Coordinator Dr. Manorama Saini 92 Faculties		1.07.19 to 05.07.19	
Training program by Prof. Prasanna Rao from VNIT Nagpur)		Coordinator Dr. JV Ogale 25 Faculties		12.06.19	
OBE workshop by expert Dr.Bittal S. Bandil Govt. Poly.College, Karad		Coordinator Dr. Poonam Lata Sagar 40 Faculties		11.06. 19 to 12.06 19	
One week short term training program course MIDAS engineering software structural design and Analysis solution		Coordinators Dr Rakesh Mehar, Dr. Tanu chaturvedi 17 Faculties		15.07.19 to 19.07.19	
Two days workshop on embedded system design lab		Coordinator Prof Bharti Mehra 45 Faculties		12.06.19	
ONE week STTP ON Bentley software for Civil engg.		Coordinator DR SS Goliya 17 Faculties		12.06.19	
One week STTP on chemical simulator ASPEN-PLUS in the PCE Department		Coordinator Prof Pradeep Semil 08 Faculties		23 .09.19 to 27.09.19	
Expert Talk by Dr. Nitin Kaiistha IIT Kanpur		Coordinator Prof Pradeep Semil 10 Faculties		20.09.19	

FDP from 4 to 8 <sup>th</sup> NOV on Advanced Communication system and technologies using NETSIM	Coordinator Prof. Smriti Dubey 45 Faculties	04.11.19 to 08.11.19
International Conference on human settlement	Coordinator Dr. SS Goliya 35 Faculties	03.12.2019
Organizing one day workshop on “Assessment of availability , quality and relevance of the course on SWAYAM, MOOCS AND courses vi-a-vis to engineering programme UG/PG	Coordinator Dr Shailendra Shrivastava 37 Faculties	16.12.19
Expert lecture on national mathematics day	Coordinator Dr. Shailesh Jaloree 22 Faculties	22.12.19
Organizing one day workshop on “Assessment of availability , quality and relevance of the course on SWAYAM, MOOCS AND courses vi-a-vis to engineering programme UG/PG	Coordinator Dr Shailendra Shrivastava 37 Faculties	26.12.19
Workshop on introduction to numerical simulation (A hands on APPROACH) ON THE OCCASION OF DIAMONG JUBILEE CELEBRATION)	Coordinator Dr. Rakesh Mangore 00 Faculties (Student Centric)	10.02.20 to 14.02.20
Two days Workshop on ground improvement techniques in civil engineering department	Coordinators Dr Rajeev Jain, Dr Shubha Khatri 19 Faculties	07.01.20 to 08.01.20
OBE and accreditation workshop in online mode by the expert Dr Shaila Subbraman professor Department of EE, Walchand college of engineering, Sangli Maharashtra	Coordinator Dr Rajeev Jain 100 Faculties	19.06.20 to 20.06.20

#### 6.3.4 Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
Nil (no recruitment during the year)			

#### 6.3.5 Welfare schemes for

Teaching	Medical allowance of Rs. 350/- PM is paid as medical allowance
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Non teaching	Medical allowance of Rs. 350/- PM is paid as medical allowance. Staff welfare fund to meet out urgent financial emergency.			
Students	Group insurance. Tuition fee relaxation under various scholarships schemes. Stationary allowance for weaker section as per the state Govt. norms and funds.			
<b>6.4 Financial Management and Resource Mobilization</b>				
<b>6.4.1 Institution conducts internal and external financial audits regularly</b> (with in 100 words each) Statutory Audit is conducted regularly by M/S Singhai & associates Chartered Accountants Gwalior. State Government assigned local fund audit is also conducted on regular basis. Financial resources are mobilized through grant-in-aid received from state Govt., TEQIP funds from MHRD, testing, consultancy, fees, submitting proposals under various schemes to AICTE, UGC, MPCST, state government. etc.				
<b>6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)</b>				
Name of the non government funding agencies / individuals		Funds/ Grants received in Rs.		Purpose
No		Nil		NIL
<b>6.4.2 Total corpus fund generated</b>				
<b>6.5 Internal Quality Assurance System</b>				
<b>6.5.1 Whether Academic and Administrative Audit (AAA) has been done?</b>				
Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	TEQIP	Yes	AAC
Administrative	Yes	TEQIP	Yes	AAC
<b>6.5.2 Activities and support from the Parent – Teacher Association (at least three)</b>				
1. Parent representative in academic council of Institute. 2. Periodic interaction with parents. 3. Involvement in feedback system.				
<b>6.5.3 Development programmes for support staff (at least three)</b>				
1. Study leave. 2. Facilitating to enrol in online MOOCS courses. 3. Time bound promotion scheme. 4. Best performer is awarded on Independence and Republic day.				
<b>6.5.4 Post Accreditation initiative(s) (mention at least three)</b>				
1. Implementation of outcome based education. 2. Improving IT enabled teaching infrastructure. 3. Participation in TEQIP-III activities leading to periodically academic and administrative audit of				

services and academics.

**6.5.5**

- a. Submission of Data for AISHE portal : (Yes ✓ /No)
- b. Participation in NIRF : (Yes /No ✓)
- c. ISO Certification : (Yes /No ✓)
- d. NBA or any other quality audit : (Yes✓ /No)

**6.5.6 Number of Quality Initiatives undertaken during the year**

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from----- to-----)	Number of participants
2019-20	IQAC meeting	25.01.2020	3.30 PM to 5 PM	15

<b>CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES</b>						
<b>7.1 - Institutional Values and Social Responsibilities</b>						
7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)						
Title of the programme		Period (from-to)		Participants		
				Female	Male	
NIL						
<b>7.1.2 Environmental Consciousness and Sustainability / Alternate Energy initiatives such as: Percentage of power requirement of the College met by the renewable energy sources</b>						
Installation of solar panels to meet partial power requirement of the Institute.						
Replacement of fluorescent light sources by LED sources.						
<b>7.1.3 Differently abled (Divyangjan) friendliness</b>						
Items Facilities			Yes/No		No. of Beneficiaries	
Physical facilities						
Provision for lift			No		NIL	
Ramp / Rails			Partial		All who require support	
Braille Software / facilities			No		NIL	
Rest Rooms			Yes		All differently abled	
Scribes for examination			No		NIL	
Special skill development for differently abled students			No		NIL	
Any other similar facility			NIL		NIL	
<b>7.1.4 Inclusion and Situatedness</b>						
Enlist most important initiatives taken to address locational advantages and disadvantages during the year						
Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2019-20	Helping district administration to carry out pollution testing workshop, advice on infrastructure development and providing access to school children to visit laboratories	04				

	for creating scientific temper.					
			11.02.2020	Kulhar village under UNNAT BHARAT ABHIYAN & RURAL OUTREACH	Students discussed about the changing scenario in the construction industry and possible steps that can be taken for Environmental Protection.	02 staff and 30 students
			15.12.2019 - 22.12.2019	NSS camp	Sanitation and Child labour	02 staff and 25 students
			22.02.20 - 23.02.20	Bhavna Yog Shivir	under the blessings of Jain Ascetic Muni Shri Praman Sagar Ji and 5 other saints	Staff and nearby followers around 250 participants
			13.02.2020	District-level stress management training program " Pariksha Parv 2.0	Students & Examiners in the aegis of National & Madhya Pradesh Commission for Protection of Child Rights	10 faculty and 200 students from schools

### 7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)
Rules	MP Govt, AICTE and Instt.	AICTE guidelines, MP rule handbook and Institute rules are available with Registrar of the Institute.

### 7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-----to-----)	Number of participants
International Conference on Human Settlement.	3 <sup>rd</sup> December 2019	100 including 29 representatives from 22 countries participated

International Conference on Non-Violence & peace	19– 22, November 2019	125
Rajyog Meditation Camp	27.11.2019- 4.12.2019	76
One Day Seminar on "Human Rights Day"	10.12.2019	86
Rajyog Meditation Programme	27.01.2020 to 31.01.2020	40
Bhavna Yog Shivir was organized under the blessings of Jain Ascetic Muni Shri Praman Sagar Ji and 5 other saints	22.02.2020 – 23.02.2020	250

### **7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)**

1. Plantation drives through eco club of Institute.
2. Digging of water recharging pits
3. Segregation of waste from hostel and administrative areas.
4. Awareness amongst staff to reduce power consumption in administrative and hostel area.
5. Reuse of waste water for play fields.
6. Replacing of old air conditioners with new energy efficient ones.
7. On the occasion of Gandhi\_Jayanti a pledge by the students and staff of Institute was taken to ban plastics in Institute Premises and undertook “shramdaan” as an activity by NSS under swachch Bharat Abhiyan

### **7.2 Best Practices**

1. Institute is providing scholarships to meritorious and financial weaker students under the aegis of Rajmata Scindia awards, Maharaja Mahdavrao Scindia award, Merit awards.
2. Inclusive planning for the improvement of academic and administrative performance of Institute.
3. Teaching faculty is constantly motivated for enhancing qualifications, knowledge, and research. From TEQIP -III funds faculty/ staff and students are deputed for Training /FDPs /STTPs/ Workshops etc. at IITs, NITs and other reputed Institutes.

### **7.3 Institutional Distinctiveness**

Funds are provided by the Institute for overall development of faculty, staff and students under TEQIP III scheme with full transparency. Institute was rated as best performer in TEQIP III project. [http://www.satiengg.in/TEQIP/TEQIP\\_III.aspx](http://www.satiengg.in/TEQIP/TEQIP_III.aspx)

2019 Batch, Computer Science student Mr. Himanshu Jain made the institute proud by securing AIR-3 in GATE Examination 2020.

### **8. Future Plans of action for next academic year (500 words)**

The pandemic COVID- 19 has drastically affected all the spheres of life. It is a challenging task to impart knowledge via online mode and minimize the loss of practical knowledge. While imparting knowledge care must also be taken to not create undue burden of students and faculty as all are in psychological distress. Following areas are indentified where improvements can be done:

Online webinar can be conducted in online mode to improve the research outreach and taper areas of future collaboration. Efforts must also be made for charting MoUs with leading Institutes / agencies. Placements of students will be a challenging task. Students can be guided to take up online internships so that they can have a fair chance of employment in near future. Once the pandemic situation improves all the faculty and staff must work hard to meet the targets for TEQIP III projects and meet out the objectives of the CRS projects. The faculty will be advised to publish their research work in quality publications.

The concerned departments who have submitted SAR must prepare themselves for the NBA visit while other Department must work towards submitting SAR to NBA. As the NAAC and UGC autonomous term is also expiring, preparation on these will also be required. Institute participation in NIRF ranking must also be ensured. Departmental coordinators for all these development activities will be assigned tasks for effective implementation of the requirements of these agencies.

On the academic front, new UG programs B.Tech. in IoT and AIDS are planned for approval from AICTE. A strategy to compensate the loss in experiments due to online mode must be devised by all the Departments once the situation normalizes. In future there should be discussion on attainments and other aspects also in BoS and academic council meetings.

Name J. Parashar



Signature of the Coordinator, IQAC

Name Dr. J.S. Chouhan



Signature of the Chairperson, IQAC