## The Annual Quality Assurance Report (AQAR) of the IQAC (For Universities)

Institutions Accredited by NAAC need to submit an Annual self-reviewed progress report i.e. Annual Quality Assurance Report (AQAR) to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the IQAC at the beginning of the Academic year. *The AQAR period would be the Academic Year.* (For example, July 1, 2017 to June 30, 2018)

#### Part - A

#### **Data of the Institution**

(data may be captured from IIQA)

 Name of the Institution Sant Longowal Institute of Engineering and Technology, Longowal

• Name of the Head of the institution : Prof. (Dr.) Shailendra Kumar Jain

• Designation: Director

• Does the institution function from own campus: Yes

Phone no./Alternate phone no.
 01672-253100 (O), 253101 (R)

• Mobile no. +919478400840

Registered Email director@sliet.ac.in

Alternate Email deanacad@sliet.ac.in

Address
 Sant Longowal Institute of Engineering &

Technology

• City/Town : Longowal/ Sangrur

State/UT : PunjabPin Code : 148106

## 2. Institutional status:

University: State/Central/Deemed/Private: Deemed

(Tick appropriative)

Type of Institution: Co-education/Men/Women Co-Education

• Location : Rural/Semi-urban/Urban: Rural

 Financial Status: Centrally funded/state funded/Private Centrally Funded (please specify) • Name of the IQAC Co-ordinator/Director: Prof. (Dr.) J.S. Dhillon

• Phone no. /Alternate phone no. : 01672-2531678

• Mobile: +91 9779 828833

• IQAC e-mail address: <u>iqac@sliet.ac.in</u>

• Alternate Email address: jsdhillonp@yahoo.co.in

**3.** Website address: <a href="www.sliet.ac.in">www.sliet.ac.in</a>

Web-link of the AQAR: (Previous Academic Year): <a href="http://sliet.ac.in/internal-quality-assurance-cell-">http://sliet.ac.in/internal-quality-assurance-cell-</a>

igac/AQAR2017-18.pdf

For ex. <a href="http://www.chanakyauniv.edu.in/AQAR2015-16.doc">http://www.chanakyauniv.edu.in/AQAR2015-16.doc</a>

4. Whether Academic Calendar prepared during the year?

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

Weblink: http://academic.sliet.ac.in/files/2012/10/New-academic-calander-2108.pdf

#### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 <sup>st</sup>	В	2.35	2012	from:2012 to: 2017
2 <sup>nd</sup>	B+	2.58	2017	from:2017 to: 2022

6. Date of Establishment of IQAC: DD/MM/YYYY: 16/02/2013

#### 7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture  Number of				
Item /Title of the quality initiative by IQAC	Date & duration	participants/beneficiaries		
Workshop on Outcome Based Education		112		
System	06.05.2019	(1 <sup>st</sup> session = 60 & 2 <sup>nd</sup> Session = 5		
Internal Academic & Administrative Audit				
Electronics & Communication Engg.	17.07.2019	15		
EIE	10.07.2019	05		
CSE	14.05.2019	05		
FET	14.05.2019	05		
Chem. Engg	21-28.05.2019	12		

Math	04.06.2019	07
Chemistry	16.05.2019	05
Physics	24.05.2019	05
Mech. Engg.	06.06.2019	50
Management & Humanities	15.05.2019	10
Academic Section	30-31 May, 2019	04
Store & Purchase Section	30-31 May, 2019	04
Administration Section	30-31 May, 2019	04
Accounts Section	30-31 May, 2019	04
Estate Office	30-31 May, 2019	04
Hostel System	30-31 May, 2019	04
Transport System	30-31 May, 2019	04
Health Centre	30-31 May, 2019	04
Sports Section	30-31 May, 2019	04
Set up of Competitive Examination Cell	04.07.2019	04 Members

# <u>Note</u>: Some Quality Assurance initiatives of the institution are: (Indicative list)

- Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analysed and used for improvements
- Academic Administrative Audit (AAA) conducted and its follow up action
- Participation in NIRF
- ISO Certification
- NBA etc.
- Any other Quality Audit
- **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/			Year of award with	
Department/Faculty Scheme Fu		Funding agency	duration	Amount
		National Project		
		Implementation	12.04.2018 -	
CLIFT Language	TEQIP-III	Unit (NPIU),	30.09.2020	Rs.7.00 Crore
SLIET Longowal	IEQIF-III	(World Bank	(Letter no. AC/TEQIP-	NS.7.00 CIOIE
		Project) New	III/MHRD dated	
		Delhi	12.04.2018)	

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

10. No. of IQAC meetings held during the year: 02

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website......

Yes/No

YES

(Please upload, minutes of meetings and action taken report)

http://sliet.ac.in/internal quality assurance cell-iqac/minutes-of-iqac-meetings/

**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)
- Initiation of SLIET Merit Scholarship Scheme
- Dean (Student Welfare) Coordinates to ensure that Anti-Ragging measures have been effectively enforced. Emphasized the monitoring of the Teaching & Learning processes at departmental levels.
- Initiation of SLIET Quality Publication Award (SQPA) to grant incentives to the research scholars of the Institute.
- Remedial classes for weak students and make-up classes for UG and PG students have been introduced. NPTL courses for students as well as faculty.
- Certificate of appreciation received from National Project Implementation Unit (NPIU), New Delhi
- SLIET Team "Green Rangers" outperforms 70 teams including IITs to bag the overall winner award in Efficycle, 2018
- Admissions to Ph.D. made under National Doctoral Fellowship Scheme (NDF) of AICTE.
- Employment Skill test for UG students was conducted, in which 1740 students of the institute participated.
- Research assistantship under TEQIP-III is provided to 10 Ph.D. scholars.
- The institute organized 12 expert lectures under Industry Institute Component.
- The Institute organized 03 day Personality Development Programme for UG Students.
- A team of 48 students from the Institute went on Industrial Visit to Gahaziabad
- The Institute organized 05 workshop/seminars for faculty/staff of the Institute.
- 80 students of the Institute are already placed through Campus placement in well reputed companies and the placement through campus is in progress.
- Set up of Competitive Examination Cell
- Organizing of a Seminar on Outcome Based Education (OBE) system

<sup>\*</sup>upload latest notification of formation of IQAC Yes

- Financial support to students for innovative projects under TEQIP-III
- Financial support to young faculty to promote research
- Physical Training (PT) to 1<sup>st</sup> Year ICD Students
- Establishment of Rovers/Rangers Group under Bharat Scout & Guides, Punjab
- **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	
<ul> <li>Action has been initiated to introduced complete MIS/ERP</li> </ul>	<ul> <li>Saral ERP has been implemented</li> </ul>	
<ul> <li>Study materials for ICD students.</li> </ul>	<ul> <li>Under Progress</li> </ul>	

14. Whether the AQAR was placed before statutory body? Yes /No: YES

Name of the statutory body : SENATE

Date of meeting(s) : 15.01.2019 (23<sup>rd</sup> Meeting Item No. 23.9.2)

**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: Yes

Year: 2018-19 Date of Submission: 29.03.2019

17. Does the Institution have Management Information System?

Yes No NO (under progress-In the last phase of implementation)

If yes, give a brief description and a list of modules currently operational.

(Maximum 500 words)

Yes, the Institute has Management Information System (MIS), which is a piece-meal type of MIS and it is active in the following sections/Departments.

a) Central Library b) Central Admission Cell c) Examination Cell d) Accounts Section e) Store & Purchase Section

## Part-B

CRITERION I – CUR			
	Design and Developmen		
		vision was carried out during the Aca	
Name of programme	Programme Code	Programme Specialization	Dates of revision
BE	GCS	Computer Science & Engineering	27.06.2018
BE	GEC	Electronics & Communication Engineering	27.06.2018
BE	GIN	Instrumentation & Control Engineering	27.06.2018
BE	GEE	Electrical Engineering	27.06.2018
BE	GCT	Chemical Engineering	27.06.2018
BE	GFT	Food Technology	27.06.2018
BE	GME	Mechanical Engineering (Manufacturing Engg.)	27.06.2018
BE	GWT	Mechanical Engineering (Welding Technology)	27.06.2018
M.Tech.	PG-MSE	Manufacturing Systems Engineering	27.06.2018
M.Tech.	PG-WLF	Welding and Fabrication	27.06.2018
M.Tech.	PG-FET	Food Engineering & Technology	27.06.2018
M.Tech.	PG-CSE	Computer Science & Engineering	27.06.2018
M.Tech.	PG-ICE	Instrumentation and Control Engineering	27.06.2018
M.Tech.	PG-ECE	Electronics and Communication Engineering	27.06.2018
M.Tech.	PG-CE	Chemical Engineering	27.06.2018
MSc	PG-PHY	Chemical Engineering	27.06.2018
MSc	PG-CHY	Chemistry	27.06.2018
MSc	PG-MATH	Mathematics	27.06.2018
MBA	MBA	MBA	27.06.2018

	1.1.2 Programmes/ courses focussed on employability/ entrepreneurship/ skill development				
during the A	during the Academic year				
Programm	Programme specializaiton Date of Course with Date of				
e with	Introduction Code Introduction				
Code	Code				

BE	Computer Science & Engineering	27.06.2018	HSMC401	27.06.2018
BE	Electronics & Communication Engineering	27.06.2018	HSMC401	27.06.2018
BE	Instrumentation & Control Engineering	27.06.2018	HSMC401	27.06.2018
BE	Electrical Engineering	27.06.2018	HSMC401	27.06.2018
BE	Chemical Engineering	27.06.2018	HSMC401	27.06.2018
BE	Food Technology	27.06.2018	HSMC401	27.06.2018
BE	Mechanical Engineering (Manufacturing Engg.)	27.06.2018	HSMC401	27.06.2018
BE	Mechanical Engineering (Welding Technology)	27.06.2018	HSMC401	27.06.2018
BE	Computer Science & Engineering	27.06.2018	HSMC402	27.06.2018
BE	Electronics & Communication Engineering	27.06.2018	HSMC402	27.06.2018
BE	Instrumentation & Control Engineering	27.06.2018	HSMC402	27.06.2018
BE	Electrical Engineering	27.06.2018	HSMC402	27.06.2018
BE	Chemical Engineering	27.06.2018	HSMC402	27.06.2018
BE	Food Technology	27.06.2018	HSMC402	27.06.2018
BE	Mechanical Engineering (Manufacturing Engg.)	27.06.2018	HSMC402	27.06.2018
BE	Mechanical Engineering (Welding Technology)	27.06.2018	HSMC402	27.06.2018
BE	Computer Science & Engineering	27.06.2018	ESME402	27.06.2018
BE	Electronics & Communication Engineering	27.06.2018	ESME402	27.06.2018
BE	Instrumentation & Control Engineering	27.06.2018	ESME402	27.06.2018
BE	Electrical Engineering	27.06.2018	ESME402	27.06.2018
BE	Chemical Engineering	27.06.2018	ESME402	27.06.2018

BE	Food Technology	27.06.2018	ESME402	27.06.2018
BE	Mechanical Engineering (Manufacturing Engg.)	27.06.2018	ESME402	27.06.2018
BE	Mechanical Engineering (Welding Technology)	27.06.2018	ESME402	27.06.2018

## 1.2 Academic Flexibility:

1.2.1 New programmes/courses introduced during the Academic year

Programme/Course	Date of introduction
NIL	NIL

1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of	Programme Specialization	Date of implementation			
programmes		of CBCS/Elective Course			
adopting		System			
CBCS					
BE	Computer Science & Engineering	27.06.2018			
BE	Electronics & Communication Engineering	27.06.2018			
BE	Instrumentation & Control Engineering	27.06.2018			
BE	Electrical Engineering	27.06.2018			
BE	Chemical Engineering	27.06.2018			
BE	Food Technology	27.06.2018			
BE	Mechanical Engineering (Manufacturing Engg.)	27.06.2018			
BE	Mechanical Engineering (Welding Technology)	27.06.2018			
M.Tech.	Manufacturing Systems Engineering	27.06.2018			
M.Tech.	Welding and Fabrication	27.06.2018			
M.Tech.	Food Engineering & Technology	27.06.2018			
M.Tech.	Computer Science & Engineering	27.06.2018			
M.Tech.	Instrumentation and Control Engineering	27.06.2018			
M.Tech.	Electronics and Communication Engineering	27.06.2018			
M.Tech.	Chemical Engineering	27.06.2018			
MSc	Physics	27.06.2018			
MSc	Chemistry	27.06.2018			
MSc	Mathematics	27.06.2018			
MBA	MBA	27.06.2018			

#### **1.3 Curriculum Enrichment:**

- **1.** To adopt the AICTE Model Curriculum 2018 applicable in SLIET, a number of meetings were held with the HODs / their representatives.
- 2. Included fractional credit courses to give space to curricular activities.
- 3. Provision for opting 20% courses from MOOCs.

1.5.1 Value added codises imparting transferable and me skins offered daring the year						
Value added courses	Date of introduction	Number of students				
		enrolled				
English Communication and Soft Skills	27.06.2018	161				
Environmental Studies	27.06.2018	161				
Research Methodology and IPR	27.06.2018	41				

English for Rese	arch Paper Writing and	27.06.2018	41
professional cor	nmunication		
Constitution of India		27.06.2018	41
1.3.2 Field Proje	cts / Internships under tak	en during the year	
Project/Progra mme Title	Programme Specialization		No. of students enrolled for Field Projects / Internships
MSc	' '	Internship of MSc (Chemistry) students at Pharmaffiliates Analytics & Synthetics (P) Ltd.,	
BE	Computer Science and Engineering		8
BE	Computer Science and E	Computer Science and Engineering	
BE	Computer Science and E	ngineering	8

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	Yes	No		

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

Data Analytics Committee is constituted vide Office Order No. SLIET/DIR/2520 dt. 29.01.2019 to analyze the Data.

As per record available in department of Training and Placement there were no procedure/ format/ mechanism available to take the feedback from Employers in the past. But after self-assessment of this gap Head (T&P) has designed one Feedback Form & regularly taking the feedback from our recruiters since November 2016.

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

## 2.1 Student Enrolment and Profile

## 2.1. 1 Demand Ratio during the year

Name of the	Programme Specialization	Number of	Number of	Students
Programme		seats	Application	Enrolled
		available	received	
BE (Lateral Entry)	Computer Science & Engineering (GCS)	86		86
BE (Lateral Entry)	Electronics & Communication Engineering (GEC)	44	631 (Through SLIET	44
BE (Lateral Entry)	Instrumentation & Control Engineering (GIN)	60	Entrance Test (SET-III)	45
BE (Lateral Entry)	Electrical Engineering (GEE)	39		39

BE (Lateral			164	47
Entry)	Chemical Engineering (GCT)	52	(Through	47
BE (Lateral			SLIET	
Entry)	Food Technology (GFT)	63	Entrance	52
,	5, ( )		Test (SET-III)	
BE (Lateral	Mechanical Engineering		285	62
Entry)	(Manufacturing Engg.) (GME)	62	(Through	02
<b>55</b> /			SLIET	
BE (Lateral	Mechanical Engineering (Welding	70	Entrance	61
Entry)	Technology) (GWT)	70	Test (SET-III)	
BE	Computer Science & Engineering	F2		47
	(GCS)	53		
BE	Electronics & Communication	26		18
BE	Engineering (GEC) Instrumentation & Control			08
DL	Engineering (GIN)	26		00
BE	Electrical Engineering (GEE)	27	Through JoSAA/	24
BE	Chemical Engineering (GCT)	26	CSAB	18
BE	Food Technology (GFT)	26		03
BE	Mechanical Engineering	33		32
	(Manufacturing Engg.) (GME)		_	
BE	Mechanical Engineering (Welding Technology) (GWT)	32		23
M.Tech.	M.Tech. in Manufacturing Systems	2.0		28
	Engineering (PG-MSE)	36		
M.Tech.	M.Tech. in Welding and Fabrication	25		12
M.Tech.	(PG-WLF) M.Tech. in Food Engineering &			19
141.1 CC11.	Technology (PG-FET)	36	104	13
M.Tech.	M.Tech. in Computer Science &	25	(Through	19
M.Tech.	Engineering (PG-CSE) M.Tech. in Instrumentation and		CCMT and	20
IVI. FECTI.	Control Engineering (PG-ICE)	25	SLIET	20
M.Tech.	M.Tech. in Electronics and		Entrance	03
ivi. recii.	Communication Engineering (PG-	25	Test)	03
	ECE) M.Tech. in Chemical Engineering			
M.Tech.	(PG-CE)	25		0
	(1 0 02)			
MSc	M.Sc. in Physics (PG-PHY)	25	52	21
MSc	M.Sc. in Chemistry (PG-CHY)	25	(Through	20
MSc	M.Sc. in Mathematics (PG-MATH)	25	CCMN and SLIET	15

			Entrance Test)	
MBA	МВА	50	31	13

#### 2.2 Catering to Student Diversity

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

Year	Number of	Number of	Number of full time	Number of full	Number of
	students	students	teachers available	time teachers	teachers
	enrolled in the	enrolled in the	in the institution	available in the	teaching both
	institution (UG)	institution (PG)	teaching only UG	institution	UG and PG
			courses	teaching only	courses
				PG courses	
2018-	1776	304			155
19					

#### 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	Number of	ICT tools and	Number of ICT	Number of	E-resources
teachers on	teachers using	resources	enabled	smart	and
roll	ICT (LMS, e-	available	classrooms	classrooms	techniques
	Resources)				used
155	85	3	15	9	18
(130 regular +					
25 on					
contract)					

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

Students mentoring system is available in the institution in the form of Course Counsellor, Tutor Guardian Scheme and Student Mentor Scheme. All the classes of the Diploma, Degree and PG students are assigned their course Counsellors. Students of Diploma and degree of all years in a mixed manner are assigned a faculty member of his/her department and if required from nonengineering departments as Tutor Guardian. Students from BE-IInd year and BE-IIIrd year are given STUDENT MENTOR assignments on volunteer basis to mentor the students of Diploma Ist year and Degree Ist year respectively. Each student mentor has been allotted 10-15 mentees. On the recommendations of respective Head of the Departments, Departmental coordinators from Engineering departments have been appointed for TGSMS activity. Every Wednesday a period in the central time table from 12:30 to 01:30pm is fixed for course councillor and Tutor Guardian activities on alternate Wednesdays. The main purpose of this student mentor scheme is to address their problems (academics, social, emotion, economic etc.) and encourage the students to participate in the various academic and non-academic events throughout the academic year. Students can discuss any kind of problems occurs during their study in SLIET campus with their respective mentors. Student mentors are encouraged to cooperate and help their mentees by 24x7 hours. This scheme, which is perhaps the only one of its kind, guarantees additional assurance to the new corners and takes some burdens off the parents and lessens their anxiety. The students are free to contact the counselling service with a wide range of worries, including person al, home and family relationships, depression, anxiety and loneliness. This scheme has given pivotal results in the following areas:

- To enhance teacher-student contact hours.
- To enhance students' academic performance and attendance.
- To minimise student drop-out rates.
- To identify and understand the status of slow learners and encourage advanced learners.
- To render equitable service to students.

Number of students enrolled in the institution	Number of fulltime	Mentor: Mentee
	teachers	Ratio
3707	155	1:10

2.4 Teacher	r Profile	e and Quality					
2.4.1 Numb	er of f	ull time teachers appoint	ted during th	e year			
No. of sanctioned positions		No. of filled positions	' I		tions filled ng the current	No. of faculty with Ph.D.	
1+180	)	1+130	50		, = =	NIL	96
(received a	wards,	recognitions received b	•	onal, Int	ternati	onal level from (	Government,
recognised Year of award	Nam awai	during the year ) e of full time teachers red rds from state level, natio national level	_	Design n	natio	1	ward, fellowship, Government or dies
2018	PSP	S Panesar			sor	Fellow Award	
2018	Dr. A	jat Shatru Arora		Profes	sor	Organised by During 16 Nov 2018 at GNEC	y MHRD and y IIT, Roorkee y, 2018 to 7 Dec, C Noida and Ros hool, Michigan Ann Arbor,
2018	Dr. S	hailendra Kumar Jain		Directo	or	Organised by During 16 Nov 2018 at GNEC	y MHRD and y IIT, Roorkee y, 2018 to 7 Dec, C Noida and Ros hool, Michigan Ann Arbor,
2018	Prof.	Shankar Singh		Profes	sor	(Advanced Ma	teach AT73.17 sterial Science for anufacturing) at

			Asian Institute of Technology (AIT), Bangkok, Thailand under MHRD Scheme STIF Secondment to Asian Institute of Technology, Bangkok
2019	Dr. Harish Kumar Chopra	Professor	Selected for three-week leadership development program Leadership for Academicians Program (LEAP) under the aegis of the Ministry of Human Resource Development, Government of India at IIT, BHU from Feb 25 to March 9, 2019 and at The Pennsylvania State University, Pennsylvania, United States from March 11th to 15th, 2019
2019	Dr. D.C. Saxena	Professor	Selected for three-week leadership development program Leadership for Academicians Program (LEAP) under the aegis of the Ministry of Human Resource Development, Government of India at IIT, BHU from Feb 25 to March 9, 2019 and at The Pennsylvania State University, Pennsylvania, United States from March 11th to 15th, 2019
2019	Dr. Manpreet Singh Manna	Associate Professor	from People First Leadership Academy and International Accreditation organisation at La Marvella Sarovar the premier, Bangalore on 19th Jan., 2019.  "Editor Choice Education Excellency Award-2019"  for making Indian Education Affordable and Reachable from Chairman NBA during Dialogue

	India Academia Awards at Taj				
	Dubai	(UAE)	on	2nd	May,
	2019.				

#### **5 Evaluation Process and Reforms:**

- 1. Modifications in Academic Calendar to facilitate the students to attend maximum classes.
- 2. Minor examinations only on Mondays to save time and to give sufficient time to the students for the preparation of examinations.
- 3. Retest examinations on Saturdays / vacation during the semester to facilitate the slow runners.
- 4. Different continuous evaluation schemes for Under-Graduate (UG) & Integrated Certificate Diploma (ICD) Students
- 5. Timely declaration of Results after approval in the SENATE (Academic Council)

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

Programme Name	Program	Semester/	Last date of	Date of
	me	year	the last	declaration of
	Code		semester-end/	results of
			year- end	semester-end/
			examination	year- end
				examination
Certificate in Building Maintenance	CBM	2nd / 1st	22.05.2019	17.06.2019
Certificate in Data Entry & Word	CDE	2nd / 1st	22.05.2019	17.06.2019
Processing	CDL	2114 / 131	22.03.2013	17.00.2013
Certificate in Paper Technology	CPT	2nd / 1st	22.05.2019	17.06.2019
Certificate in Servicing & Maintenance of	CSME	2nd / 1st	22.05.2019	17.06.2019
Electronic Instruments	CSIVIL	2110 / 130	22.03.2019	17.00.2019
Certificate in Television Mechanic	CTV	2nd / 1st	22.05.2019	17.06.2019
Certificate in Electrician	CEN	2nd / 1st	22.05.2019	17.06.2019
Certificate in Food Processing &	CFP	2nd / 1st	22.05.2019	17.06.2019
Preservation	CFF	2110 / 150	22.03.2019	17.00.2019
Certificate in Servicing & Maintenance of	CSMM	2nd / 1st	22.05.2019	17.06.2019
Medical Instruments	CSIVIIVI	2110 / 150	22.03.2019	17.00.2019
Certificate in Air Conditioning Mechanic	CAC	2nd / 1st	22.05.2019	17.06.2019
Certificate in Auto & Farm Equipment	CAF	2nd / 1st	22.05.2019	17.06.2019
Mechanic	CAF	2110 / 150	22.03.2019	17.00.2019
Certificate in Foundry and Forging	CFF	2nd / 1st	22.05.2019	17.06.2019
Certificate in Tool & Die Technology	CTD	2nd / 1st	22.05.2019	17.06.2019
Certificate in Welding	CWG	2nd / 1 <sup>st</sup>	22.05.2019	17.06.2019
Certificate in Building Maintenance	CBM	4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	17.06.2019
Certificate in Data Entry & Word	CDE	4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	17.06.2019
Processing	CDE			17.00.2019

Certificate in Paper Technology	СРТ	4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	17.06.2019
Certificate in Servicing & Maintenance of	CIT	4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	17.00.2015
Electronic Instruments	CSME	7 / 2	22.03.2013	17.06.2019
Certificate in Television Mechanic	CTV	4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	17.06.2019
Certificate in Electrician	CEN	4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	17.06.2019
Certificate in Food Processing &	CLIV	4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	17.00.2015
Preservation	CFP	4 / 2	22.03.2013	17.06.2019
Certificate in Servicing & Maintenance of		4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	
Medical Instruments	CSMM	' / -	22.03.2013	17.06.2019
Certificate in Air Conditioning Mechanic	CAC	4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	17.06.2019
Certificate in Auto & Farm Equipment		4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	
Mechanic	CAF	' ' -	22.03.2013	17.06.2019
Certificate in Foundry and Forging	CFF	4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	17.06.2019
Certificate in Tool & Die Technology	CTD	4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	17.06.2019
Certificate in Welding	CWG	4 <sup>th</sup> / 2 <sup>nd</sup>	22.05.2019	17.06.2019
Diploma in Computer Science &		,		
Engineering	DCS	6th / 3rd	22.05.2019	17.06.2019
Diploma in Chemical Technology	DCT	6th / 3rd	22.05.2019	17.06.2019
Diploma in Electronics & Communication				
Engineering	DEC	6th / 3rd	22.05.2019	17.06.2019
Diploma in Electrical Engineering	DEE	6th / 3rd	22.05.2019	17.06.2019
Diploma in Food Technology	DFT	6th / 3rd	22.05.2019	17.06.2019
Diploma in Instrumentation & Control	DIN	6th / 3rd	22.05.2019	17.06.2019
Diploma in Mechanical Engineering	DME	6th / 3rd	22.05.2019	17.06.2019
Computer Science & Engineering	GCS	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	17.05.2019	17.06.2019
Electronics and Communication Engg.	GEC	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	17.05.2019	17.06.2019
Electrical Engg.	GEE	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	17.05.2019	17.06.2019
Instrumentation and Control Engg.	GIN	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	17.05.2019	17.06.2019
Chemical Engg.	GCT	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	17.05.2019	17.06.2019
Food Technology	GFT	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	17.05.2019	21.06.2019
Mechanical Engg. (Welding Technology)	GWT	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	17.05.2019	17.06.2019
Mechanical Engg. (Manufacturing Engg.	GME	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	17.05.2019	21.06.2019
Computer Science & Engineering	GCS	4 <sup>th</sup> /2 <sup>nd</sup> Yr	22.05.2019	17.06.2019
Electronics and Communication Engg.	GEC	4 <sup>th</sup> /2 <sup>nd</sup> Yr	21.05.2019	17.06.2019
Electrical Engg.	GEE	4 <sup>th</sup> /2 <sup>nd</sup> Yr	22.05.2019	21.06.2019
Instrumentation and Control Engg.	GIN	4 <sup>th</sup> /2 <sup>nd</sup> Yr	22.05.2019	17.06.2019
Chemical Engg.	GCT	4 <sup>th</sup> /2 <sup>nd</sup> Yr	21.05.2019	17.06.2019
Food Technology	GFT	4 <sup>th</sup> /2 <sup>nd</sup> Yr	21.05.2019	17.06.2019
Mechanical Engg. (Welding Technology)	GWT	4 <sup>th</sup> /2 <sup>nd</sup> Yr	22.05.2019	17.06.2019
Mechanical Engg. (Manufacturing Engg.	GME	4 <sup>th</sup> /2 <sup>nd</sup> Yr	22.05.2019	17.06.2019
Computer Science & Engineering	GCS	6 <sup>th</sup> / 3 <sup>rd</sup> Yr	22.05.2019	17.06.2019
Electronics and Communication Engg.	GEC	6 <sup>th</sup> / 3 <sup>rd</sup> Yr	22.05.2019	17.06.2019
Electrical Engg.	GEE	6 <sup>th</sup> / 3 <sup>rd</sup> Yr	22.05.2019	17.06.2019
Instrumentation and Control Engg.	GIN	6 <sup>th</sup> / 3 <sup>rd</sup> Yr	22.05.2019	17.06.2019
Chemical Engg.	GCT	6 <sup>th</sup> / 3 <sup>rd</sup> Yr	22.05.2019	17.06.2019
Food Technology	GFT	6 <sup>th</sup> / 3 <sup>rd</sup> Yr	22.05.2019	17.06.2019
Mechanical Engg. (Welding Technology)	GWT	6 <sup>th</sup> / 3 <sup>rd</sup> Yr	22.05.2019	17.06.2019
Mechanical Engg. (Manufacturing Engg.	GME	6 <sup>th</sup> / 3 <sup>rd</sup> Yr	22.05.2019	17.06.2019
Computer Science & Engineering	GCS	8 <sup>th</sup> /4 <sup>th</sup> Yr	22.05.2019	17.06.2019
Electronics and Communication Engg.	GEC	8 <sup>th</sup> /4 <sup>th</sup> Yr	22.05.2019	17.06.2019
Electrical Engg.	GEE	8 <sup>th</sup> /4 <sup>th</sup> Yr	22.05.2019	17.06.2019
		1 - /		1 = 1.00.2020

Instrumentation of Control 5	CIN	oth (ath)	22.05.2040	17.06.3046
Instrumentation and Control Engg.	GIN	8 <sup>th</sup> /4 <sup>th</sup> Yr	22.05.2019	17.06.2019
Chemical Engg.	GCT	8 <sup>th</sup> /4 <sup>th</sup> Yr	22.05.2019	17.06.2019
Food Technology	GFT	8 <sup>th</sup> /4 <sup>th</sup> Yr	22.05.2019	17.06.2019
Mechanical Engg. (Welding Technology)	GWT	8 <sup>th</sup> /4 <sup>th</sup> Yr	22.05.2019	17.06.2019
Mechanical Engg. (Manufacturing Engg.	GME	8 <sup>th</sup> /4 <sup>th</sup> Yr	22.05.2019	17.06.2019
M.Tech. in Computer Science &	PGCSE	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	22.05.2019	17-06-2019
Engineering				
M.Tech. in Electronics & Communication	PGECE	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	22.05.2019	17-06-2019
Engineering				
M.Tech. in Food Engineering &	PGFET	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	22.05.2019	17-06-2019
Technology				
M.Tech. in Instrumentation & Control	PGICE	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	22.05.2019	17-06-2019
Engineering  M. Tash, in Manufacturing Systems				
M.Tech. in Manufacturing Systems	PGMSE	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	22.05.2019	17-06-2019
Engineering  M. Tosh, in Moshanisal Engineering				
M.Tech. in Mechanical Engineering (Specialization in Welding and	PGWLF	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	22.05.2019	17-06-2019
Fabrication)	FOWLF	Z / I II	22.05.2019	17-00-2019
Master of Science in Chemistry	PGCHY	2 <sup>nd</sup> / 1 <sup>st</sup> Yr	22.05.2019	17-06-2019
	PGCHY	2 / 1 Yr 2 <sup>nd</sup> / 1 <sup>st</sup> Yr	22.05.2019	
Master of Science in Physics  Master of Science in Mathematics	PGPHY	2 / 1 Yr 2 <sup>nd</sup> / 1 <sup>st</sup> Yr	22.05.2019	17-06-2019 17-06-2019
	+	2 / 1 Yr 2 <sup>nd</sup> / 1 <sup>st</sup> Yr		
Master of Business Administration	MBA	2 / 1 Yr	22.05.2019	17-06-2019
M.Tech. in Computer Science &			20.06.2010	The Result
Engineering			28.06.2019	Notification
			(The last date of thesis	notified after submission of
	PGCSE	4 <sup>th</sup> /2 <sup>nd</sup> Yr	Submission in	external Viva
	FUCSE	4 /2 11	Academic	voce and
			Section with	approved by
			Extension)	Competent
			LATERISION	Authority
M.Tech. in Electronics & Communication				The Result
Engineering			28.06.2019	Notification
Linginiceting			(The last date	notified after
			of thesis	submission of
	PGECE	4 <sup>th</sup> /2 <sup>nd</sup> Yr	Submission in	external Viva
	, 5252	' / - '	Academic	voce and
			Section with	approved by
			Extension)	Competent
			Exterision	Authority
M.Tech. in Food Engineering &				The Result
Technology			28.06.2019	Notification
			(The last date	notified after
			of thesis	submission of
	PGFET	4 <sup>th</sup> /2 <sup>nd</sup> Yr	Submission in	external Viva
	. 3. 2.	. , 2 11	Academic	voce and
			Section with	approved by
			Extension)	Competent
			LACCIONNI	Authority
M.Tech. in Instrumentation & Control			28.06.2019	The Result
Engineering	PGICE	4 <sup>th</sup> /2 <sup>nd</sup> Yr	(The last date	Notification
	. 5.62	' / - '	of thesis	notified after
	1		01 11111313	notified ditel

			Submission in	submission of
			Academic	external Viva
			Section with	voce and
			Extension)	approved by
				Competent
				Authority
M.Tech. in Manufacturing Systems				The Result
Engineering			28.06.2019	Notification
			(The last date	notified after
			of thesis	submission of
	PGMSE	4 <sup>th</sup> /2 <sup>nd</sup> Yr	Submission in	external Viva
			Academic	voce and
			Section with	approved by
			Extension)	Competent
				Authority
M.Tech. in Mechanical Engineering				The Result
(Specialization in Welding and			28.06.2019	Notification
Fabrication)			(The last date	notified after
·			of thesis	submission of
	PGWLF	4 <sup>th</sup> /2 <sup>nd</sup> Yr	Submission in	external Viva
			Academic	voce and
			Section with	approved by
			Extension)	Competent
				Authority
Master of Science in Chemistry	PGCHY	4 <sup>th</sup> /2 <sup>nd</sup> Yr	22.05.2019	26.07.2019
Master of Science in Physics	PGPHY	4 <sup>th</sup> /2 <sup>nd</sup> Yr	22.05.2019	17.06.2019
Master of Science in Mathematics	PGMATH	4 <sup>th</sup> /2 <sup>nd</sup> Yr	22.05.2019	17.06.2019
Master of Business Administration	MBA	4 <sup>th</sup> /2 <sup>nd</sup> Yr	22.05.2019	23.08.2019

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

<sup>\*</sup>Do not include re-evaluation/ re-totalling = The answer sheets are shown to the students before the submission of grades.

Number of complaints or grievances	Total number of students	Percentage
about evaluation	appeared in the	
	examination	
11	3517	031%
(15-18 Batch, ICD, UG, PG)	(15-18 Batch, ICD, UG, PG)	(15-18 Batch, ICD, UG, PG)

## **2.6 Student Performance and Learning Outcomes**

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 (to provide the weblink)

http://sliet.ac.in/#

2.6.2 Pass percentage of students

Progra	Programme name	Number of students	Number of students	Pass
mme		appeared in the	passed in final Semester	Percentage
Code		final year	/year examination	
		examination		
DCT	Diploma in Chemical	49	39	79.59
	Technology			
DFT	Diploma in Food	47	33	70.21

	Technology			
DCS	Diploma in Computer	92	83	90.22
	Science & Engineering			
DEC	Diploma in Electronics &	50	39	78.00
	Communication			
	Engineering			
DIN	Diploma in	40	26	65.00
	Instrumentation and			
	Process Control			
DEE	Diploma in Electrical	40	33	82.50
	Engineering			
DME	Diploma in Mechanical	119	86	72.27
	Engineering			
GCT	Chemical Engineering	52	45	86.53
GFT	Food Technology	30	22	73.33
GCS	Computer Science &	113	101	89.38
	Engineering			
GEC	Electronics &	56	49	87.50
	Communication			
	Engineering			
GIN	Instrumentation & Control	40	33	82.50
	Engineering			
GEE	Electrical Engineering	59	57	96.61
GME	Mechanical Engineering	72	70	97.22
	(Manufacturing Engg.)			
GWT	Mechanical Engineering	74	63	85.13
	(Welding Technology)			
PG-	M.Tech. in Manufacturing	22	14	63.64
MSE	Systems Engineering			
PG-	M.Tech. in Welding and	7	7	100
WLF	Fabrication			
PG-FET	M.Tech. in Food	3	2	66.67
	Engineering & Technology			
PG-CSE	M.Tech. in Computer	11	8	72.73
	Science & Engineering			
PG-ICE	M.Tech. in	9	4	44.44
	Instrumentation and			
	Control Engineering			
PG-ECE	M.Tech. in Electronics and	14	12	85.71
	Communication			
	Engineering			
MBA	MBA	3	3	100
PG-	M.Sc. in Physics	19	17	89.47
PHY	, ,			
PG-	M.Sc. in Chemistry	15	15	100
CHY			-	
PG-	M.Sc. in Mathematics	17	16	94.12
MATH			-	
				1
2 7 61 1	ent Satisfaction Survey			

## questionnaire) (results and details be provided as weblink)

The feedback of students is collected centralized and is analyzed by the Data Analytics Committee, constituted vide Office Order No. SLIET/DIR/2520 dt. 29.01.2019.

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

## **3.1 Promotion of Research and Facilities**

3.1.1 Teachers awarded National/International fellowship for advanced studies/ research during the year

	Name of the	Name of the Award	Date of Award	Awarding Agency
	teacher			
	awarded the			
	fellowship			
National	NIL	NIL	NIL	NIL
International	NIL	NIL	NIL	NIL

3.1.2 Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year = 42

Name of Research fellowship	Duration of fellowship	Funding agency
JRF (01)	6 months	Punjab State Council for Science &
		Technology, Chandigarh with support of
		Biotechnology Industry Research Assistance
		Council, Gol
JRF (01)	03 years	QIP/AICTE
NDF (07)	02 voors	NDF/AICTE
NDF (07)	03 years	INDEVAICTE
JRF (11)	05 years	GIA
JRF (10)	05 years	TEQIP-III
JRF (03)	05 years	CSIR
3 (63)	oo yearo	
JRF (09)	05 years	GIA

3.2 Resource Mobilizat	ion for Research			
3.2.1 Research funds sa	anctioned and received fro	om various agencies	, industry and otl	her organisations
Nature of the Project	Duration	Name of the	Total grant	Amount
		funding Agency	sanctioned	received during
				the year
	5 yr = 61,00,000/-	DST (FIST)		
	2 yr=14,00,000/-	AICTE		
	3 yr=25,00,000/-	AICTE		
Major projects	3 yr=16,80,000/-	AICTE	1,36,80,000/-	1,17,62,500/-
	3 yr=16,00,000/-	AICTE		
	6 months= 4,00,000/-	FICCI		
	06 projects			
Minor Projects	Nil	Nil	Nil	Nil
Interdisciplinary	Nil	Nil	Nil	Nil

Industry sponsored ProjectsNilNilNilNilNilProjects sponsored by the UniversityNANANANANAStudents Research Projects (other than compulsory by the University)13 projects one year eachTEQIP-III5, 03, 5035, 03, 503International Projects3 yr=18,07,080/- 2 yr=21,48,672/- 2 projectsDST DST39,55,752/- DST16,74,336/-Any other(Specify) Faculty Projects6 projects one year eachTEQIP-III6, 50, 200/- 1,87,89,455/-6, 50, 200/- 1,45,90,539	Projects				
by the University  Students Research Projects (other than compulsory by the University)  International Projects  Any other(Specify) Faculty Projects  NA  NA  NA  NA  NA  NA  NA  NA  NA  N		Nil	Nil	Nil	Nil
Projects (other than compulsory by the University)  International Projects  Any other(Specify) Faculty Projects  13 projects one year each  TEQIP-III  5, 03, 503  5, 03, 503  5, 03, 503  5, 03, 503  5, 03, 503  5, 03, 503  5, 03, 503  5, 03, 503  TEQIP-III  6, 50, 200/- 6, 50, 200/-	•	NA	NA	NA	NA
International Projects         2 yr=21,48,672/- 2 projects         DST         39,55,752/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,336/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74,36/- 16,74/- 16,74/- 16,74/- 16,74/- 16,74/- 16,74/- 16	Projects (other than compulsory by the		TEQIP-III	5, 03, 503	5, 03, 503
Faculty Projects each TEQIP-III 6, 50, 200/- 6, 50, 200/-		2 yr=21,48,672/-		39,55,752/-	16,74,336/-
Total 27 projects 1,87.89.455/- 1,45.90.539			TEQIP-III	6, 50, 200/-	6, 50, 200/-
, , , , , , , , , , , , , , , , , , , ,	Total	27 projects		1,87,89,455/-	1,45,90,539/-
3.3 Innovation Ecosystem					

3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of Workshop/Seminar | Name of the Dept | Date(s)

Title of Workshop/Seminar	Name of the Dept.	Date(s)
Workshop on "FSSAI		15 April 2019
FOSTAC Training and		
Certification"	Food Engineering & Technology	
TEQIP-III Sponsored STTP		10-14 Sept. 2018
on Waste Management		
Practices for		
Environmental		
Sustainability (WMPES-		
2018)	Chemical Engineering	
Global Trends in Education	Computer Science & Engineering	5-6 <sup>th</sup> Feb, 2019
Internet of Things	Computer Science & Engineering	18-22 <sup>nd</sup> , 2018
Leadership Talk by Shri.	Electrical and Instruction Engineering	08-01-2019
Anand Mahindra, Chairman, Mahindra		
Coordinator: Dr. Surita		
Maini		
Wildin		
Leadership Talk with Dr.	Electrical and Instruction Engineering	24-01-2019
Anand Deshpande, CMD		
, ,		
Workshop on IPR for	Electrical and Instruction Engineering	10-01-2019
Students and Faculty		
Members, by Ms.		
Shwetasree Majumder		
Workshop on IPR for	Electrical and Instruction Engineering	04-02-2019
Students and Faculty		
Members by Dr. Vijay		

Kumar Sukhwa	<u></u>								
3.3.2 Awards f	or Innov	ation won	by Institution/	Teachers	/Research scl	hola	rs/Stud	ents during	the year
Title of the	_	e of the	Awarding A	gency	Date of Awa	ard		Catego	ry
innovation Mobile APP	Louis Po	ardee	MHRD, AICTE	iAc	3/3/2019	<u> </u>	Softw	aro	
for Rental	PIRATIO	•	Persistent Sys		3/3/2019	,	JUILW	are	
Battery	FINATIO	ASI		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
The 9 <sup>th</sup>	SLIET TI	FΔN/I	Society of		2018		To de	sign and bu	ild human-
season of	JEIET II	_/ (  •	Automotive		2018		I	red vehicle	
"Efficycle			Engineers No	rthern			1 -	CYCLE".	,
2018"			India section						
(Dynamic			NIS	(0/.1_					
Resilience									
Season),									
.,									
<b>Fff</b> :	Laula al Ci		Lavale Desf	-: · · ·	2010		4.1-	Carland	
Efficycle	Iqbal Si	ngn	Lovely Profes		2018		1 Lac	Cash prize	
2018			University (LF	, <sub>U)</sub> ,					
'Pride of	Junkyar	-d	Baja SAE India	2010	2019		Durah	oility Award	
Punjab'	Warrio		Baja SAE IIIUI	3 2019	2019		Durak	Jilly Awaru	
runjab		embers)							
International		nauts' of	IGC 2019.		2019		Best E	Build Quality	y Winner'
Go-Kart	Sant Lo						·		,
Championshi	Institut	e of							
p- 2019	Engg. &								
	Techno	logy							
	(SLIET),								
Overall	Green F	Rangers	in EGVC 2019	held	3 <sup>rd</sup> to 6 <sup>th</sup> Ap	ril	Endurance Winner;		
Winner of	2019" (	Eight	at LD College	of	2019		Mano	euvrability	Award and
EGVC 2019	team m	embers)	Engineering,				Best [	Design Runr	ner-up
	particip	ated	Ahmadabad				Awar	d, along wit	h cash
							prize.		
3.3.3 No. of In	cubation	centre cre	ated, start-up	s incuba <sup>.</sup>	ted on campu	ıs dı	iring th	e year l	
Incubation Ce	nter	Name		Spons	ered By		ime	Nature	Date of
							the	of	Commen
						Sta up	art-	Start- up	cement
						٩٢		~~	
Cyber security	/ Cell,	Under th	e MOU with	Threat	Landscape				
CSE Departme		Threat La	•	-	solution	NI	L	NIL	
SLIET Longow	al	Cyber so	lution Pvt.	Pvt. Lt	d.				NA

		Ltd.						
Institution's Innovation Cou	ıncil	IIC- SLIET		TEQIP-III and SLIET	NIL	NIL	NA	
3.4 Research P	ublication	ons and Awai	rds					
3.4.1 Ph. Ds aw	arded d	uring the yea	r					
Name of tl	he Depa	rtment		No. of	Ph. Ds Award	ed		
Chemistry					02			
Math					01			
Physics	0 T				01			
Food Engineeri		chnology			02			
Chemical Engin Electronics 8		munication			03			
Engineering	k Con	imunication			03			
Computer Scie	nce & Er	ngineering			02			
Mechanical Eng			05					
Management 8	k Humar	nities			06			
3.4.2 Research	Publicat			ied on UGC webs	_			
		D	epartment		No. of		verage Impact	
National	Chem	ictry			Publicatio 0	n	Factor, if any <b>0</b>	
International	Chem				19		3.38	
National	Math	isti y			19		Nil	
National	IVIdIII				1		INII	
International	Math				30			
National	Physic	CS .			05		0	
International	Physic	CS .			12		1.53	
National	Food	Engineering 8	Technology	V	0		0	
International		Engineering 8		•	48		>1.00	
National	Chem	ical Engineeri	ng	-	1		0	
International		ical Engineeri			4		0.857	
National		onics & Comr		ngineering	0		0	
International		onics & Comr			31		0	
National		uter Science 8			00		0	
International	· .	uter Science 8			19		3.0486	
National		ical & Instrum			0		0	
International		ical & Instrum			04		0.841	
National				ignicci ilig				
International		anical Engine			31		2.26	
		anical Engine						
National		Management & Humanities  Management & Humanities			0 0			
International	N 4 -			15		0		

Conference Proceedings	s per Teacher du	urin	g the year						
Departmen			·		No. o	f publicati	on		
Chemistry						01			
Physics						09			
Food Engineering & Tecl	nnology	10							
Chemical Engineering						02			
Computer Science & Eng	gineering					08			
Electrical & Ins Engineering	trumentation					03			
Mechanical Engineering						30			
Management & Humanities						11			
3.4.4 Patents published	/awarded durin	g th	e year						
	Patent statu	S	Patent						
Patent Details	Published/File	ed	Number			Da	ite of Award		
NIL									
3.4.5 Bibliometrics of the	e publications d	urin	g the last Acad	dem	nic year	based on	average citatio	n index in	
Scopus/ Web of Science	or PubMed/ Ind	dian	Citation Index		-				
Title of the paper	Name of the		le of the		ear of	Citatio	Institutional	Number	
1 1, 2	author		urnal		ublica	n Index	affiliation as	of	
			-	1 '	on		mentioned	citations	
					0		in the	excludin	
							publication	g self	
							publication	_	
								citations	
p53-Mdm2 Interaction	Dr. Harish	Cı	ırrent	20	18	Scopus	Sant	3	
Inhibitors as Novel	Kumar	Ca	ncer Drug			/ Web	Longowal		
Nongenotoxic	Chopra		rgets			of	Institute of		
Anticancer Agents	Спорта	'	inget3			scienc	Engineering		
Anticancer Agents						e	&		
						-			
							Technology		
Exploring Low-Cost	Dr. Harish	М	ini-Reviews	20	18	Scopus	Sant	3	
Natural Precursors as	Kumar	In	Organic			/ Web	Longowal		
Chiral Building Blocks	Chopra	Ch	nemistry			of	Institute of		
in Synthesis: Chiral						scienc	Engineering		
Carbohydrate-Ionic						e	&		
Liquids							Technology		
·	Do Harth			20	10	C :		2	
Synthesis,	Dr. Harish		urnal Of	20	18	Scopus	Sant	2	
characterization and	Kumar		olecular			/ Web	Longowal		
applications of some	Chopra	Lic	quids			of	Institute of		
novel DMAP-based						scienc	Engineering		
chiral ionic liquids						e	&		
							Technology		
						1			
Synthesis,	Dr. Harish	Sy	nthetic	20	18	Scopus	Sant	2	

		<del></del>	<u> </u>	T 2		1
organocatalytic	Chopra	ns		of	Institute of	
application of chiral				scienc	Engineering	
ionic liquids derived				е	&	
from (S,R)-noscapine					Technology	
Enantioselective	Dr. Harish	Current	2018	Scopus	Sant	1
Reduction Reactions	Kumar	Organic		/ Web	Longowal	
Using Chiral Ionic	Chopra	Synthesis		of	Institute of	
Liquids: An Overview		,		scienc	Engineering	
				e	&	
					Technology	
					7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
Chiral Recognition	Dr. Harish	Critical	2019	Scopus	Sant	0
Methods in Analytical	Kumar	Reviews In		/ Web	Longowal	
Chemistry: Role of the	Chopra	Analytical		of	Institute of	
Chiral Ionic Liquids		Chemistry		scienc	Engineering	
				е	&	
					Technology	
Optimization and	Dr. Harish	Journal Of	2018	Scopus	Sant	0
production of turmeric	Kumar	Food		/ Web	Longowal	
extract-based	Chopra	Processing		of	Institute of	
nanoemulsion (TEBN)	5 <b>6</b>	And		scienc	Engineering	
and its application in		Preservation		e	&	
preservation of fatty					Technology	
fish fillet					, , , , , , , , , , , , , , , , , , , ,	
				_	_	_
Development of highly	Dhiraj	Sensors And	2018	Scopus	Sant	3
selective novel		Actuators B-		/ Web	Longowal	
fluorescence		Chemical		of	Institute of	
quenching probe				scienc	Engineering	
based on Bi2S3-TiO2				е	&	
nanoparticles for					Technology	
sensing the Fe(III)						
A biopolymer-based	Dhiraj	Iranian	2018	Scopus	Sant	2
composite hydrogel		Polymer		/ Web	Longowal	
for rhodamine 6G dye		Journal		of	Institute of	
removal: its synthesis,				scienc	Engineering	
adsorption isotherms				e	&	
and kinetics					Technology	
Experimental and	Dhiraj	Journal Of	2019	Scopus	Sant	0
theoretical	2111101	Materials		/ Web	Longowal	
investigations of Mn-		Research And		of	Institute of	
N-co-doped TiO2		Technology-		scienc	Engineering	
14 00 doped 1102	ļ.	1.5011101089	1	JUICITO	LIIGHICCIIIIS	
photocatalyst for		Jmr&T		е	&	

visible light induced					Technology	
degradation of organic						
pollutants						
Investigations on	Dhiraj	Advances In	2019	Scopus	Sant	0
Amphoteric		Polymer		/ Web	Longowal	
Chitosan/TiO2		Technology		of	Institute of	
Bionanocomposites		,		scienc	Engineering	
for Application in				e	&	
Visible Light Induced					Technology	
Photocatalytic						
Degradation						
Photocatalytic	Dhiraj	Desalination	2019	Scopus	Sant	0
degradation of	J aj	And Water	2013	/ Web	Longowal	
monocrotophos using		Treatment		of	Institute of	
TiO2 photocatalyst:		- Treatment		scienc	Engineering	
identification of				e	&	
intermediates by					Technology	
chromatographic					,	
techniques and						
reaction pathway						
. ,						
Semi-interpenetrating	Dhiraj	Iranian	2019	Scopus	Sant	0
networks of		Polymer		/ Web	Longowal	
biopolymer		Journal		of	Institute of	
chitosan/acrylic acid				scienc	Engineering	
and thiourea				e	&	
hydrogels: synthesis,					Technology	
characterization and						
their potential for						
removal of cadmium						
Comparative studies	Rohini; Baral,	New Journal	2018	Scopus	Sant	1
of the electronic,	I		•		i	
	Minati;	Of Chemistry		/ Web	Longowal	
binding and	Minati; Kanungo, B.	Of Chemistry		/ Web of	Institute of	
photophysical	-	Of Chemistry		-	_	
photophysical properties of a new	Kanungo, B.	Of Chemistry		of	Institute of Engineering &	
photophysical properties of a new nona-dentate hemi-	Kanungo, B.	Of Chemistry		of scienc	Institute of Engineering	
photophysical properties of a new nona-dentate hemi- cage tripodal HQ	Kanungo, B.	Of Chemistry		of scienc	Institute of Engineering &	
photophysical properties of a new nona-dentate hemi- cage tripodal HQ pendant trizaza-	Kanungo, B.	Of Chemistry		of scienc	Institute of Engineering &	
photophysical properties of a new nona-dentate hemi- cage tripodal HQ pendant trizaza- macrocycle with	Kanungo, B.	Of Chemistry		of scienc	Institute of Engineering &	
photophysical properties of a new nona-dentate hemi- cage tripodal HQ pendant trizaza- macrocycle with unfilled, half-filled and	Kanungo, B.	Of Chemistry		of scienc	Institute of Engineering &	
photophysical properties of a new nona-dentate hemi- cage tripodal HQ pendant trizaza- macrocycle with unfilled, half-filled and completely filled	Kanungo, B.	Of Chemistry		of scienc	Institute of Engineering &	
photophysical properties of a new nona-dentate hemi- cage tripodal HQ pendant trizaza- macrocycle with unfilled, half-filled and	Kanungo, B.	Of Chemistry		of scienc	Institute of Engineering &	

Structural effect on	Rohini; Baral,	Journal Of	2019	Scopus	Sant	0
the central cavity of a	Minati;	Molecular		/ Web	Longowal	
pendent 12N3	Kanungo, B.	Structure		of	Institute of	
macrocycle on	К.			scienc	Engineering	
bonding and				e	&	
photophysical					Technology	
properties of Eu3+ and						
Tb3+ complexes:						
Experimental and						
theoretical study						
Experimental and	Rohini; Baral,	Journal Of	2019	Scopus	Sant	0
theoretical studies on	Minati;	Coordination		/ Web	Longowal	
structure, bonding and	Kanungo, B.	Chemistry		of	Institute of	
luminescence	K.			scienc	Engineering	
properties of Eu(III)				e	&	
and Tb(III) complexes					Technology	
of a new macrocyclic						
based 8HQ ligand						
Synthesis,	Akbar, Rifat;	Journal Of	2018	Scopus	Sant	0
thermodynamic,	Baral,	Coordination		/ Web	Longowal	
photophysical and DFT	Minati;	Chemistry		of	Institute of	
studies of some	Kanungo, B.			scienc	Engineering	
trivalent metal	K.			е	&	
chelates of a					Technology	
hexadentate tripodal						
hydroxyquinolinate-						
based ligand						
Experimental and	Gautam,	Journal Of	2018	Scopus	Sant	1
theoretical	Poonam;	Molecular		/ Web	Longowal	
investigations on acid	Gautam,	Structure		of	Institute of	
catalysed	Deepika;			scienc	Engineering	
stereoselective	Chaudhary,			е	&	
synthesis of new	R. P.				Technology	
indazolyl-thiazole						
derivatives						
Ultrasound-Assisted	Kaur,	Journal Of	2019	Scopus	Sant	0
Facile Synthesis and	Amritpal;	Heterocyclic		/ Web	Longowal	
Antimicrobial Studies	Kaur, Avneet	Chemistry		of	Institute of	
of Alkanediyl-bis-	Pal; Gautam,			scienc	Engineering	
thiazolidin-4-ones and	Poonam;			е	&	
Alkanediyl-bis-	Gautam,				Technology	
thiazinan-4-ones	Deepika;					
	Chaudhary,					

	Ram Pal					
Overview of phytochemistry and pharmacology of Adhatoda vasica.	Damanjit Singh	IJAMTES	2018	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	0
Numerical inversion of Laplace transform based on Bernstein operational matrix	V. Mishra	Mathematical methods in the applied sciences	2018	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	1
Numerical Inverse Laplace Transform for Solving a Class of Fractional Differential Equations	V. Mishra	Symmetry- basel	2019	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	1
Efficient higher order derivative-free multipoint methods with and without memory for systems of nonlinear equations	J.R. Sharma	International journal of computer mathematics	2018	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	3
Ball Convergence of an Efficient Eighth Order Iterative Method Under Weak Conditions	J.R. Sharma	Mathematics	2018	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	2
A fast and efficient composite Newton- Chebyshev method for systems of nonlinear equations	J.R. Sharma	Journal of complexity	2018	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	0
Design and Analysis of a New Class of Derivative-Free Optimal Order	J.R. Sharma	International journal of computational methods	2018	Scopus / Web of scienc	Sant Longowal Institute of Engineering	1

Methods for Nonlinear				е	&	
Equations					Technology	
An Efficient Class of Traub-Steffensen-Like Seventh Order Multiple-Root Solvers with Applications	J.R. Sharma	Symmetry- basel	2019	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	1
On a Class of Efficient Higher Order Newton- like Methods	J.R. Sharma	Mathematical modelling and analysis	2019	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	1
Generalized Kung- Traub method and its multi-step iteration in Banach spaces	J.R. Sharma	Journal of complexity	2019	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	0
An Efficient Class of Weighted-Newton Multiple Root Solvers with Seventh Order Convergence	J.R. Sharma	Symmetry- basel	2019	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	0
On a Reduced Cost Higher Order Traub- Steffensen-Like Method for Nonlinear Systems	J.R. Sharma	Symmetry- basel	2019	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	0
One-Point Optimal Family of Multiple Root Solvers of Second-Order	J.R. Sharma	Mathematics	2019	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	0
An Efficient Derivative Free One-Point Method with Memory	J.R. Sharma	Mathematics	2019	Scopus / Web of	Sant Longowal Institute of	0

for Solving Nonlinear				scienc	Engineering	
Equations				е	&	
					Technology	
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On a Bi-Parametric	J.R. Sharma	Mathematics	2019	Scopus	Sant	0
Family of Fourth Order				/ Web	Longowal	
Composite Newton-				of	Institute of	
Jarratt Methods for				scienc	Engineering	
Nonlinear Systems				e	&	
					Technology	
Development of	J.R. Sharma	Symmetry-	2019	Scopus	Sant	0
Optimal Eighth Order		basel		/ Web	Longowal	
Derivative-Free				of	Institute of	
Methods for Multiple				scienc	Engineering	
Roots of Nonlinear				e	&	
Equations					Technology	
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Convergence Analysis	J.R. Sharma	Mathematics	2019	Scopus	Sant	0
of Weighted-Newton				/ Web	Longowal	
Methods of Optimal				of	Institute of	
Eighth Order in				scienc	Engineering	
Banach Spaces				e	&	
					Technology	
Convergence Ball and	J.R. Sharma	Mathematics	2019	Scopus	Sant	0
Complex Geometry of				/ Web	Longowal	
an Iteration Function				of	Institute of	
of Higher Order				scienc	Engineering	
				e	&	
					Technology	
Bianchi-III	R.K.Mishra	Mathematics	2018	Scopus	Sant	1
cosmological model	N.K.IVIISIII a	Wiathernatics	2010	/ Web	Longowal	_
with BVDP in modified				of	Institute of	
f(R,T) theory				scienc	Engineering	
(11)17 (11001)				е	&	
					Technology	
Synthesis,	Dhaliwal, A.	VACUUM	2018	Scopus	Sant	06
characterization and	S.			/ Web	Longowal	
swelling rapheme of				of	Institute of	
silver nanoparticles				scienc	Engineering	
containing				е	&	
superabsorbent based					Technology	
on grafted copolymer						
of polyacrylic			1			

acid/Guar gum						
Photon Interaction Parameters Investigations for Some ZnO-Al2O3- Fe2O3-P2O5 Glasses at 59.4 keV Incident Photon Energy	Dhaliwal, A. S.	GLASS PHYSICS AND CHEMISTRY	2019	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	00
Enhanced efficiency of thin film GaAs solar cells with plasmonic metal nanoparticles	Verma S S	ENERGY SOURCES PART A- RECOVERY UTILIZATION AND ENVIRONMEN TAL EFFECTS	2018	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	03
Plasmon enhanced light trapping in thin film GaAs solar cells by Al nanoparticle array	Verma S S	PHYSICS LETTERS A	2019	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	01
Optical Properties Simulation of Magneto-Plasmonic Alloys Nanostructures	Sinha M M, Verma S S	PLASMONICS	2019	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	02
Limits on contact interactions and leptoquarks at HERA	Kaur P as a member of ZEUS Collaboratio n	Physical review D	2019	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	01
Charm production in charged current deep inelastic scattering at HERA	Kaur P as a member of ZEUS Collaboratio n	JOURNAL OF HIGH ENERGY PHYSICS	2019	Scopus / Web of scienc e	Sant Longowal Institute of Engineering & Technology	01

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Modeling and desirability approach-based multi-response optimization of WEDM parameters in machining of aluminum metal matrix composite	Rajesh Kumar,	Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol. 40(9), September 2018	2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	05
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Role of signal processing, modelling and decision making in the diagnosis of rolling element bearing defect: A review	Rajesh Kumar,	Journal of Non- destructive Evaluation, Springer	Vol. 38(1), January 2019 ISSN: 0195- 9298	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	02
Modeling of the effect of process parameters on tensile strength of friction stir welded rare earth ZE-41 magnesium alloy joints	Kulwant Singh	International Journal of Applied Engineering Research, Volume 13, Number 5 (2018), pp 2882-2891, IF: 0.149 (SJR)	2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	0
Predicting impact behaviour of friction stir welded ZE-41 Magnesium alloy	Kulwant Singh	Indian Journal of Science and Technology, Vol 11(16), DOI;10.17485/	2018	Web of Scienc e	Sant Longowal Institute of Engineering &	0

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Effect of weld cooling rates on mechanical and metallurgical properties of submerged arc welded pressure vessel steel	Harish Kumar Arya,	Journal of Pressure Vessel Technology, Volume 140 (No.4), pp 041406-1 to 041406-7, Transactions of the ASME	2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	0
Modelling and Evaluation of the Hunting Behaviour of a High-Speed Railway Vehicle on Curved Track.	Kumar, Vivek,	Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit 233, no. 2 (220–36. Doi:10.1177/0 954409718789 531	2019	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	0
Erosion wear evaluation of hvof sprayed wc-12co coating on some pipeline materials using taguchi approach,	Anuj Bansal,	Kovove Mater., Vol 57, 113–120.	2019	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	0
Effect of Copper and Magnesium Stoichiometric Additions and Thermal Aging on the Mechanical Properties of Cast Aluminium	Rakesh Kumar,	Indian Journal of Science and Technology, 11(48), 2018,1–7.	2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	01

Alloys.						
Study on Morphology and Mechanical Properties of Stoichiometrically Developed Al-Cu-Mg Cast Alloy	Rakesh Kumar,	International Journal of Mechanical Engineering and Technology, 10(04), 2019, 661–670.	2019	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	01
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Lactic acid extraction using environmentally benign Green emulsion ionic liquid membrane	Kumar, Anil; Thakur, Avinash; Panesar, Parmjit Singh	Journal Of Cleaner Production	APR 20 2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	15
Nutritional constituents of pseudo cereals and their potential use in food systems: A review	Mir, Nisar Ahmad; Riar, Charanjit Singh; Singh, Sukhcharn	Trends In Food Science & Technology	MAY 2018	Web of Scienc e	Sant Longowal Institute of Engineering	9

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					&	
					Technology	
Rheological and structural properties of protein isolates extracted from dephenolized sunflower meal: Effect of high intensity ultrasound	Malik, Mudasir Ahmad; Saini, Charanjiv Singh	Food Hydrocolloids	AUG 2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	7
Biocatalytic strategies in the production of galacto- oligosaccharides and its global status	Panesar, Parmjit S.; Kaur, Rupinder; Singh, Ram S.; Kennedy, John F.	International Journal Of Biological Macromolecul es	MAY 2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	7
Extraction of hexavalent chromium by environmentally benign green emulsion liquid membrane using tridodecyamine as an extractant	Kumar, Anil; Thakur, Avinash; Panesar, Parmjit Singh	Journal Of Industrial And Engineering Chemistry	FEB 25 2019	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	6
Changes in the GABA and polyphenols contents of foxtail millet on germination and their relationship with in vitro antioxidant activity	Sharma, Seema; Saxena, Dharmesh C.; Riar, Charanjit S.	Food Chemistry	APR 15 2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	5
Composite Film Developed From the Blends of Sesame Protein Isolate and Gum Rosin and Their Properties Thereof	Sharma, Loveleen; Singh, Charanjiv	Polymer Composites	MAY 2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	5
Edible films developed from carboxylic acid cross-linked sesame protein isolate: barrier, mechanical, thermal, crystalline and morphological properties  Gluten free approach	Sharma, Loveleen; Sharma, Harish Kumar; Saini, Charanjiv Singh	Journal Of Food Science And Technology- Mysore  Journal Of	FEB 2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology Sant	5
in fat and sugar	Singh, Ajay; Kumar,	Food	IVIAK	of	Longowal	3
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amended biscuits: A	Pradyuman	Processing	2018	Scienc	Institute of	
healthy concern for	,	And		e	Engineering	
obese and diabetic		Preservation			&	
individuals					Technology	
Stability analysis of	Kumar, Anil;	Journal Of	2018	Web	Sant	5
environmentally benign green emulsion	Thakur, Avinash;	Dispersion		of	Longowal	
liquid membrane	Panesar,	Science And		Scienc	Institute of	
ilquia membrane	Parmjit Singh	Technology		е	Engineering	
					&	
					Technology	
A comparative study	Kumar, Anil;	Separation	MAR 18	Web	Sant	4
on experimental and	Thakur,	And	2019	of	Longowal	
response surface	Avinash;	Purification		Scienc	Institute of	
optimization of lactic	Panesar,	Technology		е	Engineering	
acid synergistic	Parmjit Singh	, , , , , , , , , , , , , , , , , , , ,			&	
extraction using green					Technology	
emulsion liquid membrane						
Effect of pH and	Mir, Nisar A.;	Food	JAN 30	Web	Sant	3
holding time on the	Riar,	Chemistry	2019	of	Longowal	
characteristics of	Charanjit S.;	,		Scienc	Institute of	
protein isolates from	Singh,			е	Engineering	
Chenopodium seeds	Sukhcharn				&	
and study of their					Technology	
amino acid profile and scoring					1.0011101087	
Physical, Mechanical,	Sukhija,	Polymer	APR	Web	Sant	3
Morphological, and	Sakshi;	Composites	2018	of	Longowal	
Barrier Properties of	Singh,	Composites	2010	Scienc	Institute of	
Elephant Food Yam	Sukhcharn;			e	Engineering	
Starch, Whey Protein	Riar,				&	
Concentrate and	Charanjit S.				Technology	
psyllium Husk Based					reciniology	
Composite Biodegradable Films						
Proximate	Kamboj,	Legume	JUN	Web	Sant	3
composition,	Rajni; Nanda,	Research	2018	of	Longowal	-
nutritional profile and	Vikas	1.00001	-320	Scienc	Institute of	
health benefits of				e	Engineering	
legumes – A review					&	
					Technology	
				1.00	-	
Rheological, thermal,	Majid, Ishrat;	Food	APR	Web	Sant	3
micro structural and functional properties	Dar, B. N.; Nanda, Vikas	Bioscience	2018	of	Longowal	
of freeze dried onion	ivaliua, vikas			Scienc	Institute of	
powders as affected				е	Engineering	
by sprouting					&	

					Technology	
Development of crosslinked sesame protein and pineapple extract-based bilayer coatings for shelf-life extension of fresh-cut pineapple	Sharma, Loveleen; Saini, Charanjiv Singh; Sharma, Harish Kumar	Journal Of Food Processing And Preservation	FEB 2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	3
Comparative study of raw and germinated Chenopodium (Chenopodium album) flour on the basis of thermal, rheological, minerals, fatty acid profile and phytocomponents	Jan, Romee; Saxena, D. C.; Singh, Sukhcharn	Food Chemistry	DEC 15 2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	2
Optimization of antioxidant activity, textural and sensory characteristics of gluten-free cookies made from whole raphe quinoa flour	Jan, Khan Nadiya; Panesar, P. S.; Singh, Sukhcharn	Lwt-Food Science And Technology	JUL 2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	2
A review on emulsion liquid membrane (ELM) for the treatment of various industrial effluent streams	Kumar, Anil; Thakur, Avinash; Panesar, Parmjit Singh	Reviews In Environmental Science And Bio- Technology	MAR 2019	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	2
Physicochemical, molecular and thermal properties of high- intensity ultrasound (HIUS) treated protein isolates from album (Chenopodium album) seed	Mir, Nisar A.; Riar, Charanjit S.; Singh, Sukhcharn	Food Hydrocolloids	NOV 2019	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	1
Effect of chemical composition, granule structure and crystalline form of pigmented rice starches on their functional characteristics	Bhat, Farhan Mohiuddin; Riar, Charanjit Singh	Food Chemistry	NOV 1 2019	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	1
Effect of composition, granular morphology	Bhat, Farhan Mohiuddin;	Food	MAY 15	Web	Sant	1

	T	T	T		Ι	T
and crystalline	Riar,	Chemistry	2019	of	Longowal	
structure on the	Charanjit			Scienc	Institute of	
pasting, textural,	Singh			е	Engineering	
thermal and sensory					&	
characteristics of					Technology	
traditional rice					reciliology	
cultivars						
Characteristics of β-	Sharma,	International	15-Oct-	Web	Sant	1
glucan extracted from	Seema;	Journal Of	18	of	Longowal	
raw and germinated	Saxena,	Biological		Scienc	Institute of	
foxtail (Setaria raphe)	Dharmesh	Macromolecul		e	Engineering	
and kodo ( <i>Paspalum</i>	C.; Riar,				&	
scrobiculatum) millets	Charanjit S.	es				
					Technology	
Effect of Egg Albumen,	Ashok Kumar	Korean Journal	Oct-	Web	Sant	1
Vegetable Oil, Corn	Pathera, Cha	Of Food	2018	of	Longowal	_
Bran, and Cooking	ranjit Singh		2010			
Methods on Quality	Riar, Sanjay	Science And		Scienc	Institute of	
Characteristics of	Yadav, and P	Animal		е	Engineering	
Chicken Nuggets Using	radeep	Resources			&	
Response Surface	Kumar Singh				Technology	
Methodology						
Effect of addition of	S Sharma, DC	Journal Of	Jun-18	Web	Sant	1
different levels of β-	Saxena, CS	Food		of	Longowal	
glucan from minor	Riar			_		
millet on the		Measurement		Scienc	Institute of	
functional, textural		And		е	Engineering	
and sensory		Characterizati			&	
characteristics of cake		on			Technology	
premix and cake						
Exploring the	Bharti, Indu;	Lwt-Food	AUG	Web	Sant	1
influence of heat	Singh,	Science And	2019	of	Longowal	
moisture treatment on	Sukhcharn;	Technology		Scienc	Institute of	
physicochemical,	Saxena, D. C.	, , , , , , , , , , , , , , , , , , , ,		e	Engineering	
pasting, structural and					&	
morphological						
properties of mango					Technology	
kernel starches from						
Indian cultivars						
Influence of alkali	Bharti, Indu;	International	MAR 15	Web	Sant	1
treatment on	Singh,	Journal Of	2019	of	Longowal	
physicochemical,	Sukhcharn;	Biological		Scienc	Institute of	
pasting, morphological	Saxena, D. C.	Macromolecul		e	Engineering	
and structural		es			&	
properties of mango					Technology	
kernel starches					recimology	
derived from Indian						
cultivars	lan Vhair	Journal Of	NAAD	\A/ = l=	Cont	1
Textural, in vitro	Jan, Khan Nadiya;	Journal Of	MAR	Web	Sant	1
antioxidant activity	i ivauiva:	Food	2018	of	Longowal	1
and sensory	Panesar, P.	Processing	2018	Scienc	Institute of	

characteristics of cookies made from blends of wheat- quinoa grown in India	S.; Singh, Sukhcharn	And Preservation		е	Engineering & Technology	
Assessment of raphe- chemical properties, fatty acid, amino acid and mineral profile of bee pollen from India with a multivariate perspective	Thakur, M and Nanda V	Journal Of Food And Nutrition Research	2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	1
Dynamic Changes in Health-Promoting Properties and Eating Quality During Off- Vine Ripening of Tomatoes	Siddiqui, Mohammed Wasim; Lara, Isabel; Ilahy, Riadh; Tlili, Imen; Ali, Asgar; Homa, Fozia; Prasad, Kamlesh; Deshi, Vinayak; Lenucci, Marcello Salvatore; Hdider, Chafik	Comprehensiv e Reviews In Food Science And Food Safety	NOV 2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	1
Thermal, structural and rheological characterization of protein isolate from sesame meal	Saini, Charanjiv Singh; Sharma, Harish Kumar; Sharma, Loveleen	Journal Of Food Measurement And Characterizati on	MAR 2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	1
Recent developments on sustainable solvents for emulsion liquid membrane processes	Kumar, Anil; Thakur, Avinash; Panesar, Parmjit Singh	Journal Of Cleaner Production	DEC 10 2019	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	1
L(+)-Lactic Acid Production by Immobilized Lactobacillus casei Using Low Cost Agro- Industrial Waste as Carbon and Nitrogen Sources	Thakur, Avinash; Panesar, Parmjit Singh; Saini, Manohar Singh	Waste And Biomass Valorization	MAY 2019	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	1

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Parametric Optimization of Lactic Acid Production by Immobilized Lactobacillus casei Using Box-Behnken Design	Thakur, Avinash; Panesar, Parmjit Singh; Saini, Manohar Singh	Periodica Polytechnica- Chemical Engineering	2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	1
Effect of parboiling and puffing processes on the physicochemical, functional, optical, pasting, thermal, textural and structural properties of selected Indica rice	Kumar, Shiv; Prasad, Kamlesh	Journal Of Food Measurement And Characterizati on	SEP 2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	0
Development and parameter optimization of maize flat bread supplemented with asparagus bean flour	Shah, Tajamul Rouf; Prasad, Kamlesh; Kumar, Pradyuman	Food Science And Technology	2018	Web of Scienc e	Sant Longowal Institute of Engineering & Technology	0
A biopolymer-based composite hydrogel for rhodamine 6G dye removal: its synthesis, adsorption isotherms and kinetics	Navneet Bhu Ilar, Kamlesh Ku mari, Dhiraj Sud	Iranian Polymer Journal, 27(7)	2018 Impact factor 1.278		Sant Longowal Institute of Engineering & Technology	03
Microbial, Physicochemical, and Sensory Analyses- Based Shelf Life Appraisal of White Fresh Cheese Packaged into PET Waste-Based Active Packaging Film	Amandeep Si ngh, Moumita Kh amrai, Sarthik Sama nta, Kamlesh Ku mari, Patit Paban K undu	Journal of Packaging Technology and Research 2(2), pp 125– 147	2018		Sant Longowal Institute of Engineering & Technology	03
Semi-interpenetrating networks of biopolymer chitosan/acrylic acid and thiourea hydrogels: synthesis, characterization and	Navneet Bhu Ilar, Kamlesh Ku mari, Dhiraj Sud	Iranian Polymer Journal,	2019 Impact factor 1.278		Sant Longowal Institute of Engineering & Technology	03

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removal of cadmium					
Effect of introducing ozone prior to elemental chlorine free bleaching of wheat straw pulp on pulp, paper and effluent properties	Tripathi, S.K., Bhardwaj, N.K., and Ghatak H.R.	Cellulose Chemistry and Technology	2019	Sant Longowal Institute of Engineering & Technology	
Improvement in pulp quality and effluent properties using methanol as carbohydrate protector during ozone bleaching of wheat straw pulp	Tripathi, S.K., Bhardwaj, N.K., and Ghatak H.R.	APPITA Journal	2018	Sant Longowal Institute of Engineering & Technology	
Optimization of ozone bleaching conditions for improving wheat straw pulp quality using response surface methodology	Tripathi, S.K., Bhardwaj, N.K., and Ghatak H.R.	Ozone: Science and Engineering	2019	Sant Longowal Institute of Engineering & Technology	
Additives to decrease cellulose chain scission during ozone bleaching of wheat straw pulp	Tripathi, S.K., Bhardwaj, N.K., and Ghatak H.R.	Nordic Pulp and Paper Research Journal	2018	Sant Longowal Institute of Engineering & Technology	
I(+)-Lactic Acid Production by Immobilized Lactobaci Ilus casei Using Low Cost Agro-Industrial Waste as Carbon and Nitrogen Sources	Avinash Thakur, Parmjit Singh Panesar, Manohar Singh Saini	Waste and Biomass Valorization	2019	Sant Longowal Institute of Engineering & Technology	02
Parametric optimization of green synergistic reactive extraction of lactic	Anil Kumar and Avinash thakur	Chemical engineering Communicatio	2019	Sant Longowal Institute of Engineering	01

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acid using		ns		&	
trioctylamine,				Technology	
Aliquat336, and					
butan-2-ol in					
sunflower oil by					
response surface					
methodology					
Continuous	Avinash	International	2018	Sant	0
Production of Lactic	Thakur,	Journal of		Longowal	
Acid in a Two Stage	Parmjit Singh	Food		Institute of	
Process Using	Panesar,	Engineering		Engineering	
Immobilized	Manohar			&	
Lactobacillus casei	Singh Saini			Technology	
MTCC 1423 Cells					
Optimization of	Avinash	Biomass	2019	Sant	03
process parameters	Thakur,	Conversion		Longowal	
and estimation of	Parmjit Singh	and		Institute of	
kinetic parameters for	Panesar,	Biorefinery		Engineering	
lactic acid production	Manohar			&	
by Lactobacillus	Singh Saini			Technology	
casei MTCC 1423	Singii Suiii			recimology	
Extraction of	Anil Kumar,	Journal of	2019	Sant	3
hexavalent chromium	Avinash	Industrial and		Longowal	
by environmentally	Thakur,	Engineering		Institute of	
benign green emulsion	Parmjit Singh	Chemistry		Engineering	
liquid membrane using	Panesar,			&	
tridodecyamine as an	,			Technology	
extractant				7	
extractant					
A Comparative study	Anil Kumar,	Separation	2019	Sant	3
on experimental and	Avinash	and		Longowal	
response surface	Thakur,	Purification		Institute of	
optimization of lactic	Parmjit Singh	Technology		Engineering	
acid synergistic	Panesar,			&	
extraction using green				Technology	
emulsion liquid					
membrane					
A review on emulsion	Anil Kumar,	Reviews in	2019	Sant	0
liquid membrane	Avinash	Environmental		Longowal	
(ELM) for the	Thakur,	Science and		Institute of	
treatment of various	Parmjit Singh	Bio/Technolog		Engineering	
industrial effluent	Panesar	У		&	1

streams					Technology	
Stability analysis of environmentally benign green emulsion liquid membrane	Anil Kumar, Avinash Thakur, Parmjit Singh Panesar	Journal of Dispersion Science and Technology	2018		Sant Longowal Institute of Engineering & Technology	3
Furfural production from rice straw using oxalic acid hydrolysis and sulphuric acid dehydration pretreatment	ASK Sinha, RR Dhanraj	PRAMANA RESEARCH JOURNAL	2019		Sant Longowal Institute of Engineering & Technology	0
Data proliferation- based estimations over distribution factor in heterogeneous wireless sensor networks	Surinder Singh et al.	Computer communicatio ns	2018	SCI	Sant Longowal Institute of Engineering & Technology	0
A dual-channel surface raphem resonance biosensor based on a photonic crystal Fiber for multianalyte sensing	Surinder Singh et al.	Journal of Computational Electronics	2019	SCI	Sant Longowal Institute of Engineering & Technology	1
Design of titanium nitride coated PCF-SPR sensor for liquid sensing applications	Surinder Singh et al.	Optical Fiber Technology	2019	SCI	Sant Longowal Institute of Engineering & Technology	0
Design approach of solid-core photonic crystal fiber sensor with sensing ring for blood component detection	Surinder Singh et al.	Journal of Nanophotonic	2019	SCI	Sant Longowal Institute of Engineering & Technology	0

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Design of XPM based all optical contention detection circuit at 120 Gbps	Surinder Singh et al.	Optical and Quantum Electronics	2019	SCI	Sant Longowal Institute of Engineering & Technology	0
340-Gb/s PoISK-DP- DQPSK optical orthogonal modulation format with coherent direct detection foe high capacity WDM optical network	Surinder Singh et al.	Optical Fiber Technology	2019	SCI	Sant Longowal Institute of Engineering & Technology	0
Design of all optical contention detection circuit based on HNLF at the data rate of 120 Gbps	Surinder Singh et al.	Optical Fiber Technology	2019	SCI	Sant Longowal Institute of Engineering & Technology	0
Reconstruction of optical pulse intensity and phase based on SPM spectra measurements in microstructured tellurite fiber in telecommunication range	Surinder Singhet al.	Journal of Lightwave Technology	2019	SCI	Sant Longowal Institute of Engineering & Technology	1
A low leakage TG-CNTFET-based inexact full adder for low power image	Ubhi J Singh et al.	International Journal of Circuit Theory and	2019		Sant Longowal Institute of Engineering	

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applications.				Technology	
A Reliable Leakage	Ubhi J Singh	Mathematical	2018	Sant	
Reduction Technique	et al.	Problems in		Longowal	
for Approximate Full		Engineering		Institute of	
Adder with Reduced				Engineering	
Ground Bounce Noise				&	
				Technology	
Low leakage zero	Ubhi J Singh	Journal of	2019	Sant	
ground bounce noise	et al.	nanoelectronic		Longowal	
nanoscale full adder		s &		Institute of	
using source biasing		optoelectronic		Engineering	
technique		S		&	
				Technology	
Performance	Ubhi J Singh	Journal of	2019	Sant	
Analysis of Mobile	et al.	Scientific and		Longowal	
Nodes in Mobile Ad-		Industrial		Institute of	
hoc Networks using		Research,		Engineering	
Enhanced Manhattan		NISCAIR-CSIR		&	
Mobility Model				Technology	
A Novel Approach to	Ubhi J Singh	Journal of	2018	Sant	
Predict Mobility	et al.	Scientific and		Longowal	
Pattern of Mobile		Industrial		Institute of	
Nodes in Mobile Ad-		Research,		Engineering	
hoc Networks		NISCAIR-CSIR		&	
				Technology	
Design and	Amar Partap	The Applied	2019	Sant	4
Optimization of	Singh et al.	Computational		Longowal	
Slotted Micro-		Electromagnet		Institute of	
Machined Patch		ic Society		Engineering	
Antenna Using		Journal		&	
Composite Substrate				Technology	
On the Design of	Amar Partap	International	2019	Sant	
Planner Antenna using	Singh et al.	Journal of RF		Longowal	
Fibonacci Word Fractal		and		Institute of	
Geometry in Support		Microwave		Engineering	
of Public Safety		Computer-		&	
		Aided		Technology	
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On the Design and	Amar Partap	IETE Journal of	2019	Sant	3
Analysis of I-Shaped				Longowal	

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Fractal Antenna for	Singh et al.	Research			Institute of	
Emergency					Engineering	
Management					& Ta alama la mi	
					Technology	
Synthesis and	Anupma Mar	Journal of	2019		Sant	3
Validation of a Cu	waha et al.	Electronic			Longowal	
Meta-Based		Materials			Institute of	
Wideband Microwave					Engineering	
Absorber on an					&	
Antenna Array					Technology	
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A triband slotted Bow-	Anupma Mar	optik	2019		Sant	1
tie wideband THz	waha et al				Longowal	
antenna design using					Institute of	
rapheme for Wireless					Engineering	
Applications					&	
					Technology	
Utilization of rapheme	Anupma Mar	Journal of	2018		Sant	1
oxide-based	waha et al	<u>Nanophotonic</u>			Longowal	
microwave absorber		<u>S</u>			Institute of	
for pattern					Engineering	
enhancement of patch					&	
antenna array					Technology	
Elucidation of	Anupma Mar	Journal of	2018		Sant	1
microwave absorption	waha et al	<u>Materials</u>			Longowal	
mechanisms in Co-Ga		<u>Science</u>			Institute of	
substituted Ba-Sr		Materials in			Engineering	
hexaferrites in X-band		<u>Electronics</u>			&	
					Technology	
Graphene based arc	Anupma Mar	Current	2018		Sant	1
Truncated terahertz	waha et al	nanoscience	2010		Longowal	1
antenna of wireless	wana et ai	Harioscience			Institute of	
communication					Engineering	
Communication					&	
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Non-invasive	Dilip Kumar	MAPAN,	2019	SCI	Sant	
Temperature	et al.	Springer.			Longowal	
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Investigating the impact of data normalization on classification performance	Dalwinder Singh &Birmohan Singh	Applied Soft Computing	May, 2019	0	Sant Longowal Institute of Engineering & Technology	0
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Grasshopper optimization algorithm—based approach for the optimization of ensemble classifier and feature selection to classify epileptic EEG signals	Gurwinder Singh, Birmohan Singh, Manpreet Kaur	Medical & Biological Engineering & Computing	Feb, 2019	0	Sant Longowal Institute of Engineering & Technology	0
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An energy-efficient cloud system with novel dynamic resource allocation methods  Next-generation Internet of things and cloud security solutions	Vinod Kumar Verma et al Vinod Kumar Verma et al	The Journal of Supercomputing  International Journal of Distributed Sensor	Mar, 2019 Mar, 2019	0	Sant Longowal Institute of Engineering & Technology  Sant Longowal Institute of Engineering	0
Data Proliferation Based Estimations over Distribution Factor in Heterogeneous Wireless Sensor Networks	Vinod Kumar Verma et al	ELSEVIER Computer Communicatio ns – The International Journal for the Computer and Telecommunic ations Industry	June, 2018	0	& Technology  Sant Longowal Institute of Engineering & Technology	0
Prevention of Flooding Attacks in Mobile Ad Hoc Networks	Gurjinder Kaur., Jain V.K., Ghaba Y,	LNCS	Mar, 2019	0	Sant Longowal Institute of Engineering & Technology	0
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	author	journal	of	index	of	affiliation as
			publi		citations	mentioned
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			n		self citations	publication
p53-Mdm2 Interaction	Dr. Harish	Current	2018	2	3	Sant
Inhibitors as Novel	Kumar	Cancer				Longowal
Nongenotoxic Anticancer	Chopra	Drug				Institute of
Agents		Targets				Engineering
						&
						Technology
Exploring Low-Cost Natural	Dr. Harish	Mini-	2018	2	3	Sant
Precursors as Chiral Building	Kumar	Reviews In				Longowal
Blocks in Synthesis: Chiral	Chopra	Organic				Institute of
Carbohydrate-Ionic Liquids		Chemistry				Engineering
						&
						Technology
Synthesis, characterization	Dr. Harish	Journal Of	2018	2	2	Sant
and applications of some	Kumar	Molecular				Longowal
novel DMAP-based chiral	Chopra	Liquids				Institute of
ionic liquids						Engineering
						&
						Technology

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Synthesis, characterization, and organocatalytic application of chiral ionic liquids derived from (S,R)- noscapine	Dr. Harish Kumar Chopra	Synthetic Communic ations	2018	2	2	Sant Longowal Institute of Engineering & Technology
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Optimization and production of turmeric extract-based nanoemulsion (TEBN) and its application in preservation of fatty fish fillet	Dr. Harish Kumar Chopra	Journal Of Food Processing And Preservatio n	2018	2	0	Sant Longowal Institute of Engineering & Technology
Development of highly selective novel fluorescence quenching probe based on Bi2S3-TiO2 nanoparticles for sensing the Fe(III)	Dhiraj	Sensors And Actuators B-Chemical	2018	2	3	Sant Longowal Institute of Engineering & Technology
A biopolymer-based composite hydrogel for rhodamine 6G dye removal: its synthesis, adsorption isotherms and kinetics	Dhiraj	Iranian Polymer Journal	2018	2	2	Sant Longowal Institute of Engineering & Technology
Experimental and theoretical investigations of Mn-N-co-doped TiO2 photocatalyst for visible light induced degradation of organic	Dhiraj	Journal Of Materials Research And Technology	2019	2	0	Sant Longowal Institute of Engineering &

pollutants		-Jmr&T				Technology
Investigations on Amphoteric Chitosan/TiO2 Bionanocomposites for Application in Visible Light Induced Photocatalytic Degradation	Dhiraj	Advances In Polymer Technology	2019	2	0	Sant Longowal Institute of Engineering & Technology
Photocatalytic degradation of monocrotophos using TiO2 photocatalyst: identification of intermediates by chromatographic techniques and reaction pathway	Dhiraj	Desalinatio n And Water Treatment	2019	2	0	Sant Longowal Institute of Engineering & Technology
Semi-interpenetrating networks of biopolymer chitosan/acrylic acid and thiourea hydrogels: synthesis, characterization and their potential for removal of cadmium	Dhiraj	Iranian Polymer Journal	2019	2	0	Sant Longowal Institute of Engineering & Technology
Comparative studies of the electronic, binding and photophysical properties of a new nona-dentate hemi-cage tripodal HQ pendant trizazamacrocycle with unfilled, half-filled and completely filled lanthanide ions	Rohini; Baral, Minati; Kanungo, B. K.	New Journal Of Chemistry	2018	1	1	Sant Longowal Institute of Engineering & Technology
Structural effect on the central cavity of a pendent 12N3 macrocycle on bonding and photophysical properties of Eu3+ and Tb3+ complexes: Experimental and theoretical study	Rohini; Baral, Minati; Kanungo, B. K.	Journal Of Molecular Structure	2019	1	0	Sant Longowal Institute of Engineering & Technology
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of Eu(III) and Tb(III) complexes of a new macrocyclic based 8HQ ligand	Kanungo, B. K.	Chemistry				Engineering & Technology
Synthesis, thermodynamic, photophysical and DFT studies of some trivalent metal chelates of a hexadentate tripodal hydroxyquinolinate-based ligand	Akbar, Rifat; Baral, Minati; Kanungo, B. K.	Journal Of Coordinati on Chemistry	2018	1	0	Sant Longowal Institute of Engineering & Technology
Experimental and theoretical investigations on acid catalysed stereoselective synthesis of new indazolylthiazole derivatives	Gautam, Poonam; Gautam, Deepika; Chaudhary, R. P.	Journal Of Molecular Structure	2018	1	1	Sant Longowal Institute of Engineering & Technology
Ultrasound-Assisted Facile Synthesis and Antimicrobial Studies of Alkanediyl-bis- thiazolidin-4-ones and Alkanediyl-bis-thiazinan-4- ones	Kaur, Amritpal; Kaur, Avneet Pal; Gautam, Poonam; Gautam, Deepika; Chaudhary, Ram Pal	Journal Of Heterocycli c Chemistry	2019	1	0	Sant Longowal Institute of Engineering & Technology
Overview of phytochemistry and pharmacology of Adhatoda vasica.	Damanjit Singh	IJAMTES	2018	0	0	Sant Longowal Institute of Engineering & Technology
Numerical inversion of Laplace transform based on Bernstein operational matrix	V. Mishra	Mathemati cal methods in the applied sciences	2018	1	1	Sant Longowal Institute of Engineering & Technology
Numerical Inverse Laplace Transform for Solving a Class of Fractional Differential	V. Mishra	Symmetry- basel	2019	1	1	Sant Longowal Institute of

Equations						Engineering & Technology
Efficient higher order derivative-free multipoint methods with and without memory for systems of nonlinear equations	J.R. Sharma	Internation al journal of computer mathemati cs	2018	1	3	Sant Longowal Institute of Engineering & Technology
Ball Convergence of an Efficient Eighth Order Iterative Method Under Weak Conditions	J.R. Sharma	Mathemati cs	2018	1	2	Sant Longowal Institute of Engineering & Technology
A fast and efficient composite Newton- Chebyshev method for systems of nonlinear equations	J.R. Sharma	Journal of complexity	2018	0	0	Sant Longowal Institute of Engineering & Technology
Design and Analysis of a New Class of Derivative-Free Optimal Order Methods for Nonlinear Equations	J.R. Sharma	Internation al journal of computatio nal methods	2018	1	1	Sant Longowal Institute of Engineering & Technology
An Efficient Class of Traub- Steffensen-Like Seventh Order Multiple-Root Solvers with Applications	J.R. Sharma	Symmetry- basel	2019	1	1	Sant Longowal Institute of Engineering & Technology
On a Class of Efficient Higher Order Newton-like Methods	J.R. Sharma	Mathemati cal modelling and analysis	2019	1	1	Sant Longowal Institute of Engineering & Technology
Generalized Kung-Traub method and its multi-step	J.R. Sharma	Journal of complexity	2019	0	0	Sant Longowal

iteration in Banach spaces						Institute of Engineering &
						Technology
An Efficient Class of Weighted-Newton Multiple Root Solvers with Seventh Order Convergence	J.R. Sharma	Symmetry- basel	2019	0	0	Sant Longowal Institute of Engineering & Technology
On a Reduced Cost Higher Order Traub-Steffensen-Like Method for Nonlinear Systems	J.R. Sharma	Symmetry- basel	2019	0	0	Sant Longowal Institute of Engineering & Technology
One-Point Optimal Family of Multiple Root Solvers of Second-Order	J.R. Sharma	Mathemati cs	2019	0	0	Sant Longowal Institute of Engineering & Technology
An Efficient Derivative Free One-Point Method with Memory for Solving Nonlinear Equations	J.R. Sharma	Mathemati cs	2019	0	0	Sant Longowal Institute of Engineering & Technology
On a Bi-Parametric Family of Fourth Order Composite Newton-Jarratt Methods for Nonlinear Systems	J.R. Sharma	Mathemati	2019	0	0	Sant Longowal Institute of Engineering & Technology
Development of Optimal Eighth Order Derivative-Free Methods for Multiple Roots of Nonlinear Equations	J.R. Sharma	Symmetry- basel	2019	0	0	Sant Longowal Institute of Engineering & Technology

Convergence Analysis of Weighted-Newton Methods	I.R. Sharma		2019	0	0	Sant
		CS				Longowal
of Optimal Eighth Order in						Institute of
Banach Spaces						Engineering
						&
						Technology
Convergence Ball and J	I.R. Sharma	Mathemati	2019	0	0	Sant
Complex Geometry of an		CS				Longowal
Iteration Function of Higher						Institute of
Order						Engineering
						&
						Technology
	R.K.Mishra	Mathemati	2018	1	1	Sant
model with BVDP in modified		CS				Longowal
f(R,T) theory						Institute of
						Engineering
						& 
						Technology
Synthesis, characterization [	Dhaliwal, A.	VACUUM	2018	01	06	Sant
and swelling rapheme of	S.					Longowal
silver nanoparticles						Institute of
containing superabsorbent						Engineering
based on grafted copolymer						&
of polyacrylic acid/Guar gum						Technology
	Dhaliwal, A.	GLASS	2019	00	00	Sant
	S.	PHYSICS				Longowal
Some ZnO-Al2O3-Fe2O3-		AND				Institute of
P2O5 Glasses at 59.4 keV		CHEMISTR				Engineering
Incident Photon Energy		Υ				&
						Technology
Enhanced efficiency of thin	Verma S S	ENERGY	2018	01	03	Sant
film GaAs solar cells with		SOURCES				Longowal
plasmonic metal		PART A-				Institute of
nanoparticles		RECOVERY				Engineering
		UTILIZATIO				&
		N AND				Technology
		ENVIRONM				
		ENTAL				
		EFFECTS				
	Verma S S	PHYSICS	2019	01	01	Sant
trapping in thin film GaAs		LETTERS A				Longowal

solar cells by Al nanoparticle array						Institute of Engineering & Technology
Optical Properties Simulation of Magneto-Plasmonic Alloys Nanostructures	Sinha M M, Verma S S	PLASMONI CS	2019	01	02	Sant Longowal Institute of Engineering & Technology
Limits on contact interactions and leptoquarks at HERA	Kaur P as a member of ZEUS Collaboratio n	Physical review D	2019	01	01	Sant Longowal Institute of Engineering & Technology
Charm production in charged current deep inelastic scattering at HERA	Kaur P as a member of ZEUS Collaboratio n	JOURNAL OF HIGH ENERGY PHYSICS	2019	01	01	Sant Longowal Institute of Engineering & Technology
A state-of –art literature survey of Grey Relational Analysis (GRA) applications in competitive business environment	Arvind Jayant,	Internation al journal of industrial and systems engineerin g,Vol.30, No. 4, pp 425-448.	2018	0	01	Sant Longowal Institute of Engineering & Technology
Fabrication of Micro- Channels on Pure-Ti by USM and Its Surface Roughness Analysis	Pardeep Gupta,	Ciencia e Technical, Vitivinicola, Vol. 33(7), 2018, pp. 92-97.	2018	0	0	Sant Longowal Institute of Engineering & Technology
Manufacturing Excellence through Total Productive	Pardeep	Internation al Journal	2018	0	0	Sant Longowal

Maintenance Implementation in an Indian Industry: A Case Study	Gupta,	of Mechanical and Production Engineerin g, Research and Developme nt, Vol. 9(3), June 2019, 1593-1604.				Institute of Engineering & Technology
Metallurgical, impact and fatigue performance of electron beam welded duplex stainless-steel joints	A.S. Shahi,	Journal of Materials Processing Technology (Publisher: Elsevier) 272 137- 148.	2019	0	0	Sant Longowal Institute of Engineering & Technology
Impact Toughness, Fatigue Crack Growth and Corrosion Behaviour of Thermally Aged UNS S32205 Duplex Stainless Steel,	A.S. Shahi,	Transactio ns of Indian Institute of Metals (Publisher: Springer),	2019	0	0	Sant Longowal Institute of Engineering & Technology
Modeling and desirability approach-based multi-response optimization of WEDM parameters in machining of aluminum metal matrix composite	Rajesh Kumar,	Journal of the Brazilian Society of Mechanical Sciences and Engineerin g, Vol. 40(9), September 2018	2018	01	05	Sant Longowal Institute of Engineering & Technology

Adaptive artificial intelligence for automatic identification of defect in the angular contact bearing	Rajesh Kumar,	Neural Computing and Application s, Springe, Vol. 29(8), 2018, 277– 287.	2018	01	01	Sant Longowal Institute of Engineering & Technology
Role of signal processing, modelling and decision making in the diagnosis of rolling element bearing defect: A review	Rajesh Kumar,	Journal of Non- destructive Evaluation, Springer	Vol. 38(1), Janua ry 2019 ISSN: 0195- 9298	01	02	Sant Longowal Institute of Engineering & Technology
Modeling of the effect of process parameters on tensile strength of friction stir welded rare earth ZE-41 magnesium alloy joints	Kulwant Singh,	Internation al Journal of Applied Engineerin g Research, Volume 13, Number 5 (2018), pp 2882-2891, IF: 0.149 (SJR)	2018	0	0	Sant Longowal Institute of Engineering & Technology
Predicting impact behaviour of friction stir welded ZE-41 Magnesium alloy joints	Kulwant Singh,	Indian Journal of Science and Technology , Vol 11(16), DOI;10.174 85/ijst/201 8/v 11i16/1216 52pp 1-12	2018	0	0	Sant Longowal Institute of Engineering & Technology
Effect of weld cooling rates	Harish	Journal of	2018	0	0	Sant

on mechanical and metallurgical properties of submerged arc welded pressure vessel steel	Kumar Arya,	Pressure Vessel Technology , Volume 140 (No.4), pp 041406- 1 to 041406-7, Transactio ns of the ASME				Longowal Institute of Engineering & Technology
Modelling and Evaluation of the Hunting Behaviour of a High-Speed Railway Vehicle on Curved Track.	Kumar, Vivek,	Proceeding s of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit 233, no. 2 (220–36. Doi:10.117 7/0954409 718789531	2019	0	0	Sant Longowal Institute of Engineering & Technology
Erosion wear evaluation of hvof sprayed wc-12co coating on some pipeline materials using taguchi approach,	Anuj Bansal,	Kovove Mater., Vol 57, 113– 120.	2019	0	0	Sant Longowal Institute of Engineering & Technology
Effect of Copper and Magnesium Stoichiometric Additions and Thermal Aging on the Mechanical Properties of Cast Aluminium Alloys.	Rakesh Kumar,	Indian Journal of Science and Technology , 11(48), 2018,1-7.	2018	0	01	Sant Longowal Institute of Engineering & Technology

Study on Morphology and Mechanical Properties of Stoichiometrically Developed Al-Cu-Mg Cast Alloy	Rakesh Kumar,	Internation al Journal of Mechanical Engineerin g and Technology , 10(04), 2019, 661– 670.	2019	0	01	Sant Longowal Institute of Engineering & Technology
Experimental investigation on surface characteristics in Electrical Discharge Surface Grinding (EDSG) of 6061AI/AI2O3p 10% composite	Singh, Shankar,	Advances in Materials and Processing Technologi es (Taylor and Francis), Volume 5, Issue 1, pp. 1-24, 2019.	2019	0	0	Sant Longowal Institute of Engineering & Technology
A new method to generate artificial microstructure of dual phase steel using Teacher-Learner Based Optimization	R. K. Saxena,	Sadhna, Springer, 2019, Vol 44:85, pp- 1-18. (https://do i.org/10.10 07/s12046- 019-1054- 8) Online ISSN 0973- 7677, Print ISSN 0256- 2499.	2019	0	0	Sant Longowal Institute of Engineering & Technology
Lactic acid extraction using environmentally benign Green emulsion ionic liquid membrane	Kumar, Anil; Thakur, Avinash; Panesar, Parmjit Singh	Journal Of Cleaner Production	APR 20 2018	1	15	Sant Longowal Institute of Engineering &

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Nutritional constituents of pseudo cereals and their potential use in food systems: A review	Mir, Nisar Ahmad; Riar, Charanjit Singh; Singh, Sukhcharn	Trends In Food Science & Technology	MAY 2018	1	9	Sant Longowal Institute of Engineering & Technology
Rheological and structural properties of protein isolates extracted from dephenolized sunflower meal: Effect of high intensity ultrasound	Malik, Mudasir Ahmad; Saini, Charanjiv Singh	Food Hydrocolloi ds	AUG 2018	1	7	Sant Longowal Institute of Engineering & Technology
Biocatalytic strategies in the production of galacto- oligosaccharides and its global status	Panesar, Parmjit S.; Kaur, Rupinder; Singh, Ram S.; Kennedy, John F.	Internation al Journal Of Biological Macromole cules	MAY 2018	1	7	Sant Longowal Institute of Engineering & Technology
Extraction of hexavalent chromium by environmentally benign green emulsion liquid membrane using tridodecyamine as an extractant	Kumar, Anil; Thakur, Avinash; Panesar, Parmjit Singh	Journal Of Industrial And Engineerin g Chemistry	FEB 25 2019	1	6	Sant Longowal Institute of Engineering & Technology
Changes in the GABA and polyphenols contents of foxtail millet on germination and their relationship with in vitro antioxidant activity	Sharma, Seema; Saxena, Dharmesh C.; Riar, Charanjit S.	Food Chemistry	APR 15 2018	1	5	Sant Longowal Institute of Engineering & Technology
Composite Film Developed From the Blends of Sesame Protein Isolate and Gum Rosin and Their Properties Thereof	Sharma, Loveleen; Singh, Charanjiv	Polymer Composite s	MAY 2018	1	5	Sant Longowal Institute of Engineering & Technology
Edible films developed from carboxylic acid cross-linked sesame protein isolate: barrier, mechanical, thermal,	Sharma, Loveleen; Sharma, Harish	Journal Of Food Science And	FEB 2018	1	5	Sant Longowal Institute of Engineering

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crystalline and morphological properties	Kumar; Saini, Charanjiv Singh	Technology -Mysore				& Technology
Gluten free approach in fat and sugar amended biscuits: A healthy concern for obese and diabetic individuals	Singh, Ajay; Kumar, Pradyuman	Journal Of Food Processing And Preservatio n	MAR 2018	1	5	Sant Longowal Institute of Engineering & Technology
Stability analysis of environmentally benign green emulsion liquid membrane	Kumar, Anil; Thakur, Avinash; Panesar, Parmjit Singh	Journal Of Dispersion Science And Technology	2018	1	5	Sant Longowal Institute of Engineering & Technology
A comparative study on experimental and response surface optimization of lactic acid synergistic extraction using green emulsion liquid membrane	Kumar, Anil; Thakur, Avinash; Panesar, Parmjit Singh	Separation And Purification Technology	MAR 18 2019	1	4	Sant Longowal Institute of Engineering & Technology
Effect of pH and holding time on the characteristics of protein isolates from Chenopodium seeds and study of their amino acid profile and scoring	Mir, Nisar A.; Riar, Charanjit S.; Singh, Sukhcharn	Food Chemistry	JAN 30 2019	1	3	Sant Longowal Institute of Engineering & Technology
Physical, Mechanical, Morphological, and Barrier Properties of Elephant Food Yam Starch, Whey Protein Concentrate and psyllium Husk Based Composite Biodegradable Films	Sukhija, Sakshi; Singh, Sukhcharn; Riar, Charanjit S.	Polymer Composite s	APR 2018	1	3	Sant Longowal Institute of Engineering & Technology
Proximate composition, nutritional profile and health benefits of legumes – A review	Kamboj, Rajni; Nanda, Vikas	Legume Research	JUN 2018	1	3	Sant Longowal Institute of Engineering & Technology
Rheological, thermal, micro structural and functional	Majid, Ishrat; Dar,	Food	APR	1	3	Sant Longowal

properties of freeze dried onion powders as affected by sprouting	B. N.; Nanda, Vikas	Bioscience	2018			Institute of Engineering & Technology
Development of crosslinked sesame protein and pineapple extract-based bilayer coatings for shelf-life extension of fresh-cut pineapple	Sharma, Loveleen; Saini, Charanjiv Singh; Sharma, Harish Kumar	Journal Of Food Processing And Preservatio n	FEB 2018	1	3	Sant Longowal Institute of Engineering & Technology
Comparative study of raw and germinated Chenopodium (Chenopodium album) flour on the basis of thermal, rheological, minerals, fatty acid profile and phytocomponents	Jan, Romee; Saxena, D. C.; Singh, Sukhcharn	Food Chemistry	DEC 15 2018	1	2	Sant Longowal Institute of Engineering & Technology
Optimization of antioxidant activity, textural and sensory characteristics of gluten-free cookies made from whole raphe quinoa flour	Jan, Khan Nadiya; Panesar, P. S.; Singh, Sukhcharn	Lwt-Food Science And Technology	JUL 2018	1	2	Sant Longowal Institute of Engineering & Technology
A review on emulsion liquid membrane (ELM) for the treatment of various industrial effluent streams	Kumar, Anil; Thakur, Avinash; Panesar, Parmjit Singh	Reviews In Environme ntal Science And Bio- Technology	MAR 2019	1	2	Sant Longowal Institute of Engineering & Technology
Physicochemical, molecular and thermal properties of high-intensity ultrasound (HIUS) treated protein isolates from album (Chenopodium album) seed	Mir, Nisar A.; Riar, Charanjit S.; Singh, Sukhcharn	Food Hydrocolloi ds	NOV 2019	1	1	Sant Longowal Institute of Engineering & Technology
Effect of chemical composition, granule structure and crystalline form of pigmented rice starches on their functional characteristics	Bhat, Farhan Mohiuddin; Riar, Charanjit Singh	Food Chemistry	NOV 1 2019	1	1	Sant Longowal Institute of Engineering & Technology

Effect of accounts.	Dhat 5: 1	Faad	D.C.O.Y.	1	1	Carat
Effect of composition, granular morphology and crystalline structure on the pasting, textural, thermal and sensory characteristics of traditional rice cultivars	Bhat, Farhan Mohiuddin; Riar, Charanjit Singh	Food Chemistry	MAY 15 2019	1	1	Sant Longowal Institute of Engineering & Technology
Characteristics of β-glucan extracted from raw and germinated foxtail ( <i>Setaria raphe</i> ) and kodo ( <i>Paspalum scrobiculatum</i> ) millets	Sharma, Seema; Saxena, Dharmesh C.; Riar, Charanjit S.	Internation al Journal Of Biological Macromole cules	15- Oct- 18	1	1	Sant Longowal Institute of Engineering & Technology
Effect of Egg Albumen, Vegetable Oil, Corn Bran, and Cooking Methods on Quality Characteristics of Chicken Nuggets Using Response Surface Methodology	Ashok Kumar Pathera, Cha ranjit Singh Riar, Sanjay Yadav, and P radeep Kumar Singh	Korean Journal Of Food Science And Animal Resources	Oct- 2018	1	1	Sant Longowal Institute of Engineering & Technology
Effect of addition of different levels of β-glucan from minor millet on the functional, textural and sensory characteristics of cake premix and cake	S Sharma, DC Saxena, CS Riar	Journal Of Food Measurem ent And Characteriz ation	Jun- 18	1	1	Sant Longowal Institute of Engineering & Technology
Exploring the influence of heat moisture treatment on physicochemical, pasting, structural and morphological properties of mango kernel starches from Indian cultivars	Bharti, Indu; Singh, Sukhcharn; Saxena, D. C.	Lwt-Food Science And Technology	AUG 2019	1	1	Sant Longowal Institute of Engineering & Technology
Influence of alkali treatment on physicochemical, pasting, morphological and structural properties of mango kernel starches derived from Indian cultivars	Bharti, Indu; Singh, Sukhcharn; Saxena, D. C.	Internation al Journal Of Biological Macromole cules	MAR 15 2019	1	1	Sant Longowal Institute of Engineering & Technology
Textural, in vitro antioxidant activity and sensory characteristics of cookies made from blends of wheatquinoa grown in India	Jan, Khan Nadiya; Panesar, P. S.; Singh, Sukhcharn	Journal Of Food Processing And Preservatio	MAR 2018	1	1	Sant Longowal Institute of Engineering &

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Assessment of raphe- chemical properties, fatty acid, amino acid and mineral profile of bee pollen from India with a multivariate perspective	Thakur, M and Nanda V	Journal Of Food And Nutrition Research	2018	1	1	Sant Longowal Institute of Engineering & Technology
Dynamic Changes in Health- Promoting Properties and Eating Quality During Off- Vine Ripening of Tomatoes	Siddiqui, Mohammed Wasim; Lara, Isabel; Ilahy, Riadh; Tlili, Imen; Ali, Asgar; Homa, Fozia; Prasad, Kamlesh; Deshi, Vinayak; Lenucci, Marcello Salvatore; Hdider, Chafik	Comprehe nsive Reviews In Food Science And Food Safety	NOV 2018	1	1	Sant Longowal Institute of Engineering & Technology
Thermal, structural and rheological characterization of protein isolate from sesame meal	Saini, Charanjiv Singh; Sharma, Harish Kumar; Sharma, Loveleen	Journal Of Food Measurem ent And Characteriz ation	MAR 2018	1	1	Sant Longowal Institute of Engineering & Technology
Recent developments on sustainable solvents for emulsion liquid membrane processes	Kumar, Anil; Thakur, Avinash; Panesar, Parmjit Singh	Journal Of Cleaner Production	DEC 10 2019	1	1	Sant Longowal Institute of Engineering & Technology
L(+)-Lactic Acid Production by Immobilized Lactobacillus casei Using Low Cost Agro- Industrial Waste as Carbon and Nitrogen Sources	Thakur, Avinash; Panesar, Parmjit Singh; Saini, Manohar Singh	Waste And Biomass Valorizatio n	MAY 2019	1	1	Sant Longowal Institute of Engineering & Technology
Parametric Optimization of Lactic Acid Production by	Thakur, Avinash;	Periodica Polytechnic	2018	1	1	Sant Longowal

Immobilized Lactobacillus casei Using Box-Behnken Design	Panesar, Parmjit Singh; Saini, Manohar Singh	a-Chemical Engineerin g				Institute of Engineering & Technology
Effect of parboiling and puffing processes on the physicochemical, functional, optical, pasting, thermal, textural and structural properties of selected Indica rice	Kumar, Shiv; Prasad, Kamlesh	Journal Of Food Measurem ent And Characteriz ation	SEP 2018	1	0	Sant Longowal Institute of Engineering & Technology
Development and parameter optimization of maize flat bread supplemented with asparagus bean flour	Shah, Tajamul Rouf; Prasad, Kamlesh; Kumar, Pradyuman	Food Science And Technology	2018	1	0	Sant Longowal Institute of Engineering & Technology
A biopolymer-based composite hydrogel for rhodamine 6G dye removal: its synthesis, adsorption isotherms and kinetics	Navneet Bhu Ilar, Kamlesh Ku mari*, Dhiraj Sud	Iranian Polymer Journal, 27(7)	Impa ct factor 1.278	01	02	Sant Longowal Institute of Engineering & Technology
Data proliferation-based estimations over distribution factor in heterogeneous wireless sensor networks	Surinder Singh et al.	Computer communic ations	2018	91	0	Sant Longowal Institute of Engineering & Technology
A dual-channel surface raphem resonance biosensor based on a photonic crystal Fiber for multianalyte sensing	Surinder Singh et al.	Journal of Computati onal Electronics	2019	27	1	Sant Longowal Institute of Engineering & Technology
Design of titanium nitride coated PCF-SPR sensor for liquid sensing applications	Surinder Singh et al.	Optical Fiber Technology	2019	54	0	Sant Longowal Institute of Engineering & Technology

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Design approach of solid- core photonic crystal fiber sensor with sensing ring for blood component detection	Surinder Singh et al.	Journal of Nanophoto nics	2019	34	0	Sant Longowal Institute of Engineering & Technology
Possibilities of laser amplification and measurement of the field structure of ultrashort pulses in the range of 2.7 – 3 µm in erbium-ion-doped tellurite glass fibres	Surinder Singh et al.	Quantum Electronics	2018	41	1	Sant Longowal Institute of Engineering & Technology
Design of XPM based all optical contention detection circuit at 120 Gbps	Surinder Singh et al.	Optical and Quantum Electronics	2019	51	0	Sant Longowal Institute of Engineering & Technology
340-Gb/s PoISK-DP-DQPSK optical orthogonal modulation format with coherent direct detection foe high capacity WDM optical network	Surinder Singh et al.	Optical Fiber Technology	2019	54	0	Sant Longowal Institute of Engineering & Technology
Design of all optical contention detection circuit based on HNLF at the data rate of 120 Gbps	Surinder Singh et al.	Optical Fiber Technology	2019	54	0	Sant Longowal Institute of Engineering & Technology
Reconstruction of optical pulse intensity and phase based on SPM spectra measurements in micro structured tellurite fiber in telecommunication range	Surinder Singh et al.	Journal of Lightwave Technology	2019	182	1	Sant Longowal Institute of Engineering & Technology
Design and Optimization of Slotted Micro-Machined Patch Antenna Using Composite Substrate	Amar Partap Singh et al.	The Applied Computati onal	2019	26	4	Sant Longowal Institute of Engineering

		Electromag netic Society Journal				& Technology
On the Design of Planner Antenna using Fibonacci Word Fractal Geometry in Support of Public Safety	Amar Partap Singh et al.	Internation al Journal of RF and Microwave Computer- Aided Engineerin g,	2019	35		Sant Longowal Institute of Engineering & Technology
On the Design and Analysis of I-Shaped Fractal Antenna for Emergency Management	Amar Partap Singh et al.	Journal of Research	2019	20	3	Sant Longowal Institute of Engineering & Technology
Synthesis and Validation of a Cu Meta-Based Wideband Microwave Absorber on an Antenna Array	Anu pma Marwa ha et al	Journal of Electronic Materials	2019	87	3	Sant Longowal Institute of Engineering & Technology
A triband slotted Bow-tie wideband THz antenna design using rapheme for Wireless Applications	Anupma Ma rwaha et al	Optik	2019	46	1	Sant Longowal Institute of Engineering & Technology
Utilization of rapheme oxide- based microwave absorber for pattern enhancement of patch antenna array	Anupma Ma rwaha et al	Journal of Nanophoto nics	2018	34	1	Sant Longowal Institute of Engineering & Technology
Elucidation of microwave absorption mechanisms in Co-Ga substituted Ba-Sr hexaferrites in X-band	Anupma Ma rwaha et al	Journal of Materials Science Materials in	2018	63	1	Sant Longowal Institute of Engineering &

		Electronics				Technology
Graphene based arc Truncated terahertz antenna of wireless communication	Anupma Ma rwaha et al	Current nanoscienc e	2018	37	1	Sant Longowal Institute of Engineering & Technology
Non-invasive Temperature Measuring and Early Fault Detecting System for Manufacturing Industry	Dilip Kumar et al.	MAPAN, Springer. (Impact Factor- 1.250)	2019	13		Sant Longowal Institute of Engineering & Technology
A survey on QoS mechanisms in WSN for computational intelligence based routing protocols	Dilip Kumar et al.	Wireless Networks, Springer. (Impact Factor- 2.405)	2019	186		Sant Longowal Institute of Engineering & Technology
QoS mechanisms for MAC protocols in wireless sensor networks: a survey	Dilip Kumar et al.	IET Communic ations, IET Digital Library. (Impact Factor- 1.779)	Augu st/20 19	53		Sant Longowal Institute of Engineering & Technology
Energy Traffic Priority Scheduling MAC Protocol with QoS assurance for Hierarchical WSNs	Dilip Kumar et al.	Internation al Journal of Electronics, Taylor & Francis. (Impact Factor- 1.779)	April/ 2019	47		Sant Longowal Institute of Engineering & Technology
Design and analysis of distance error correction—based localization algorithm	Dilip Kumar et al.	Transactio ns on Emerging	Nov/ 2018	18		Sant Longowal Institute of

for wireless sensor networks		Telecomm			Engineering
		unications			& &
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		es, Wiley			1.555.587
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Hybrid Intelligence based	Dilip Kumar	Internation	2019	3	Sant
Routing Protocols in Wireless	et al.	al Journal	2013		Longowal
Sensor Networks: A Survey	ct ai.	of Sensors,			Institute of
Sensor Networks. A Survey		Wireless			
					Engineering
		Communic			<u>&amp;</u>
		ations and			Technology
		Control,			
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		science			
Computational intelligence-	Dilip Kumar	Internation	2019	16	Sant
based energy efficient	et al.	al Journal			Longowal
routing protocols with QoS		of Wireless			Institute of
assurance for wireless sensor		and Mobile			Engineering
networks: A survey		Computing			& &
networks. 74 survey		(Inderscien			Technology
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A low leakage TG-CNTFET-	Ubhi J Singh	Internation	2019	47	Sant
based inexact full adder for	et al.	al Journal			Longowal
low power image processing		of Circuit			Institute of
applications.		Theory and			Engineering
		Application			& &
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A Reliable Leakage Reduction	Ubhi J Singh	Mathemati	2018	50	Sant
Technique for Approximate	et al.	cal			Longowal
Full Adder with Reduced		Problems			Institute of
Ground Bounce Noise		in			Engineering
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Low leakage zero ground bounce noise nanoscale full adder using source biasing technique  Performance Analysis of Mobile Nodes in Mobile Adhoc Networks using Enhanced Manhattan Mobility Model	Ubhi J Singh et al.  Ubhi J Singh et al.	Journal of nanoelectr onics & optoelectr onics  Journal of Scientific and Industrial Research, NISCAIR-CSIR	2019	46		Sant Longowal Institute of Engineering & Technology  Sant Longowal Institute of Engineering & Technology
A Novel Approach to Predict Mobility Pattern of Mobile Nodes in Mobile Ad-hoc Networks	Ubhi J Singh et al.	Journal of Scientific and Industrial Research, NISCAIR- CSIR	2018	46		Sant Longowal Institute of Engineering & Technology
Investigating the impact of data normalization on classification performance	Birmohan Singh	Applied Soft Computing	May, 2019	4	0	Sant Longowal Institute of Engineering & Technology
Wavelet and Total Variation Based Method Using Adaptive Regularization for Speckle Noise Reduction in Ultrasound Images	Birmohan Singh	Wireless Personal Communic ations	Mar, 2019	4	0	Sant Longowal Institute of Engineering & Technology
Grasshopper optimization algorithm—based approach for the optimization of ensemble classifier and feature selection to classify epileptic EEG signals	Birmohan Singh	Medical & Biological Engineerin g & Computing	Feb, 2019	4	0	Sant Longowal Institute of Engineering & Technology
A Hybrid Approach for Speckle Reduction in Ultrasound	Birmohan Singh	LNNS, Springer	Jan, 2019	4	0	Sant Longowal Institute of

						Engineering & Technology
Analysis of Electroencephalogram for the Recognition of Epileptogenic Area Using Ensemble Empirical Mode Decomposition	Birmohan Singh	Recent Trends in Communic ation, Computing, and Electronics. Lecture Notes in Electrical Engineerin g	Jan, 2019	4	0	Sant Longowal Institute of Engineering & Technology
Feature Weighting for Improved Classification of Anuran Calls	Birmohan Singh	IEEE Xplore,	May, 2019	4	0	Sant Longowal Institute of Engineering & Technology
Hybridization of feature selection and feature weighting for high dimensional data	Birmohan Singh	Applied Intelligence	Nov, 2018	4	0	Sant Longowal Institute of Engineering & Technology
Prediction of Accuracy for Hepatocellular Carcinoma Patients using Cluster based Feature Ranking	Birmohan Singh,	Internation al Journal of Medical Research & Health Sciences	Aug, 2018	4	0	Sant Longowal Institute of Engineering & Technology
Flexible fault tolerance in cloud through replicated cooperative resource group	Major Singh Goraya	Computer Communic ations	June, 2019	4	0	Sant Longowal Institute of Engineering & Technology
Fault tolerance in cloud computing environment: A	Major Singh Goraya	Computers in Industry	2018	5	7	Sant Longowal

systematic survey						Institute of
Systematic sarvey						Engineering
						&
						Technology
Multi loval alvatovina	Damananaat	The levined	Das	2	1	Sant
Multi-level clustering protocol for load-balanced	Damnpreet Singh	The Journal of	Dec, 2018		1	Longowal
and scalable clustering in	Siligii	Supercomp	2018			Institute of
large-scale wireless sensor		uting				Engineering
network		acing				&
						Technology
					_	-
An energy-efficient cloud system with novel dynamic	Vinod Kumar	The	Mar,	5	1	Sant
resource allocation methods	Verma	Journal of	2019			Longowal
		Supercomp uting				Institute of Engineering
		utilig				&
						Technology
Next-generation Internet of		Internationa	Mar,	5	0	Sant
things and cloud security solutions	Verma	I Journal of	2019			Longowal
Solutions		Distributed				Institute of
		Sensor Networks				Engineering &
		Networks				Technology
						recimology
Data Proliferation Based	Vinod Kumar	ELSEVIER	June,	5	0	Sant
Estimations over Distribution	Verma	Computer	2018			Longowal
Factor in Heterogeneous Wireless Sensor Networks		Communic				Institute of
		ations –				Engineering
		The Internation				&
		al Journal				Technology
		for the				
		Computer				
		and				
		Telecomm				
		unications				
		Industry				
Performance Comparison of	Manoj	Internation	June	3	0	Sant
Classifiers for Bilingual	Kumar	al Journal	2019	, J		Longowal
Gurmukhi-Roman Online	Sachan	of	2013			Institute of
Handwriting Recognition		Engineerin				Engineering
System		g and Advanced				&
		Technology				Technology
		0,				

A Bilingual (Gurmukhi- Roman) Online Handwriting Identification and Recognition System	Manoj Kumar Sachan	Internation al Journal of Recent Technology and Engineerin g	May 2019	3	0	Sant Longowal Institute of Engineering & Technology
Wavelet and Total Variation Based Method Using Adaptive Regularization for Speckle Noise Reduction in Ultrasound Images	Manminder Singh	Wireless Personal Communic ations	Mar, 2019	2	0	Sant Longowal Institute of Engineering & `Technology
Design and Analysis of a New Improved Force Linear Switched Reluctance Motor for Transit Application	Prof. Shilendra K. Jain	lete Journal Of Research	2019	0	0	Sant Longowal Institute of Engineering & `Technology
Measurement and Optimization of Performance Parameters of Linear Switched Reluctance Motor Using Finite Element Method	Prof. Shilendra K. Jain	Mapan- Journal Of Metrology Society Of India	2019	0	0	Sant Longowal Institute of Engineering & `Technology
Adaptive network architecture and firefly algorithm for biogas heating model aided by photovoltaic thermal greenhouse system	Dr. V.K. Jain	Energy & Environme nt	2018	1	1	Sant Longowal Institute of Engineering & `Technology
Ameliorated grey wolf optimization for economic load dispatch problem	Dr. J.S. Dhillon	Energy	2019	1	5	Sant Longowal Institute of Engineering & `Technology
Hybrid artificial algae algorithm for economic load dispatch	Dr. J.S. Dhillon	Applied Soft Computing	2018	1	5	Sant Longowal Institute of Engineering

						& `Technology
Profit based unit commitment using hybrid optimization technique	Dr. J.S. Dhillon	Energy	2018	1	4	Sant Longowal Institute of Engineering & `Technology
Multi-objective combined heat and power unit commitment using particle swarm optimization	Dr. J.S. Dhillon	Energy	2019	1	3	Sant Longowal Institute of Engineering & `Technology
Unit commitment considering dual-mode combined heat and power generating units using integrated optimization technique	Dr. J.S. Dhillon	Energy Conversion And Manageme nt	2018	1	3	Sant Longowal Institute of Engineering & `Technology
Multi-objective thermal power load dispatch using chaotic differential evolutionary algorithm and Powell's method	Dr. J.S. Dhillon	Soft Computing	2018	1	3	Sant Longowal Institute of Engineering & `Technology
Modified Binary Differential Evolution Algorithm to Solve Unit Commitment Problem	Dr. J.S. Dhillon	Electric Power Componen ts And Systems	2018	1	3	Sant Longowal Institute of Engineering & `Technology
Multiobjective thermal power load dispatch using adaptive predator-prey optimization	Dr. J.S. Dhillon	Applied Soft Computing	2018	1	1	Sant Longowal Institute of Engineering & `Technology
A Novel Random Transition Based PSO Algorithm to Maximize the Lifetime of	Dr. J.S. Dhillon	Wireless Personal Communic	2018	1	1	Sant Longowal Institute of

Wireless Sensor Networks		ations				Engineering & `Technology
Dual head static clustering algorithm for wireless sensor networks	Dr. J.S. Dhillon	Aeu- Internation al Journal Of Electronics And Communic ations	2018	1	1	Sant Longowal Institute of Engineering & `Technology
A conglomerated ion-motion and crisscross search optimizer for electric power load dispatch	Dr. J.S. Dhillon	Applied Soft Computing	2019	0	0	Sant Longowal Institute of Engineering & `Technology
Profit based unit commitment using memetic binary differential evolution algorithm	Dr. J.S. Dhillon	Applied Soft Computing	2019	0	0	Sant Longowal Institute of Engineering & `Technology
Maximal coverage hybrid search algorithm for deployment in wireless sensor networks	Dr. J.S. Dhillon	Wireless Networks	2019	0	0	Sant Longowal Institute of Engineering & `Technology
Design of Digital IIR Filter with Conflicting Objectives Using Hybrid Predator-Prey Optimization	Dr. J.S. Dhillon	Circuits Systems And Signal Processing	2018	0	0	Sant Longowal Institute of Engineering & `Technology
Non-interactive approach to solve multi-objective thermal power dispatch problem using composite search algorithm	Dr. J.S. Dhillon	Applied Soft Computing	2018	0	0	Sant Longowal Institute of Engineering & `Technology
Graphene Based Wideband Arc Truncated Terahertz	Dr. S.Marwaha	Current Nanoscienc	2018	1	2	Sant

Antenna for Wire-less Communication		е				Longowal Institute of Engineering & `Technology
A triband slotted bow-tie wideband THz antenna design using rapheme for wireless applications	Dr. S.Marwaha	Optik	2019	0	0	Sant Longowal Institute of Engineering & `Technology
Utilization of rapheme oxide- based microwave absorber for pattern enhancement of patch antenna array	Dr. S.Marwaha	Journal Of Nanophoto nics	2018	0	0	Sant Longowal Institute of Engineering & `Technology
Thermographic evaluation of mindfulness meditation using dynamic IR imaging	Dr. A.S. Arora	Infrared Physics & Technology	2018	1	2	Sant Longowal Institute of Engineering & `Technology
An automated approach to enhance the thermographic evaluation on orofacial regions in lateral facial thermograms	Dr. A.S. Arora	Journal Of Thermal Biology	2018	1	2	Sant Longowal Institute of Engineering & `Technology
A Novel Face Liveness Detection Algorithm with Multiple Liveness Indicators	Dr. A.S. Arora	Wireless Personal Communic ations	2018	1	1	Sant Longowal Institute of Engineering & `Technology
Distribution transformer failure modes, effects and criticality analysis (FMECA)	Dr. Sanjeev Singh	Engineerin g Failure Analysis	2019	1	2	Sant Longowal Institute of Engineering & `Technology

Comprehensive Controller Implementation for Wind-PV- Diesel Based Standalone Microgrid	Dr. Sanjeev Singh	leee Transactio ns On Industry Application s	2019	0	0	Sant Longowal Institute of Engineering & `Technology
An approach for classification of malignant and benign microcalcification clusters	Dr. Manpreet Kaur	Sadhana- Academy Proceeding s In Engineerin g Sciences	2018	1	1	Sant Longowal Institute of Engineering & `Technology
Grasshopper optimization algorithm-based approach for the optimization of ensemble classifier and feature selection to classify epileptic EEG signals	Dr. Manpreet Kaur	Medical & Biological Engineerin g & Computing	2019	0	0	Sant Longowal Institute of Engineering & `Technology
Assessment of Energy- Population-Urbanization Nexus with Changing Energy Industry Scenario in India	Dr. A.K. Aggarwal	Land	2019	1	2	Sant Longowal Institute of Engineering & `Technology
Development of LDA Based Indicator for the Detection of Unbalance and Misalignment at Different Shaft Speeds	Dr. Raj Kumar	Experiment al Techniques	2019	0	0	Sant Longowal Institute of Engineering & `Technology
Optimization of ozone bleaching conditions for improving wheat straw pulp quality using response surface methodology	Ghatak, HR (Ghatak, Himadri Roy)	Ozone- Science & Engineerin g	Mar 4, 2019	1	01	Sant Longowal Institute of Engineering & Technology
Effect of introducing ozone prior to elemental chlorine free bleaching of wheat straw pulp on pulp, paper and effluent properties	Ghatak, HR (Ghatak, Himadri Roy)	Cellulose Chemistry And Technology	Jan- Feb 2019	0	00	Sant Longowal Institute of Engineering &

						Technology
Improvement in pulp quality and effluent properties using methanol as carbohydrate protector during ozone bleaching of wheat straw pulp	Ghatak, HR (Ghatak, Himadri Roy)	Appita	Oct- Dec 2018	0	00	Sant Longowal Institute of Engineering & Technology
Additives to decrease cellulose chain scission during ozone bleaching of wheat straw pulp	Ghatak, HR (Ghatak, Himadri Roy)	Nordic Pulp & Paper Research Journal	Sep 2018	0	00	Sant Longowal Institute of Engineering & Technology
A biopolymer-based composite hydrogel for rhodamine 6G dye removal: its synthesis, adsorption isotherms and kinetics	Kamlesh Ku mari	Iranian Polymer Journal	July 2018	1	02	Sant Longowal Institute of Engineering & Technology
Semi-interpenetrating networks of biopolymer chitosan/acrylic acid and thiourea hydrogels: synthesis, characterization and their potential for removal of cadmium	Kamlesh Ku mari	Iranian Polymer Journal	Feb 2019	0	00	Sant Longowal Institute of Engineering & Technology
A comparative study on experimental and response surface optimization of lactic acid synergistic extraction using green emulsion liquid membrane	Avinash Thakur	Separation And Purification Technology	Marc h, 2019	0	00	Sant Longowal Institute of Engineering & Technology
Extraction of hexavalent chromium by environmentally benign green emulsion liquid membrane using tridodecyamine as an extractant	Avinash Thakur	Journal Of Industrial And Engineerin g Chemistry	Feb., 2019	1	03	Sant Longowal Institute of Engineering & Technology
L(+)-Lactic Acid Production by Immobilized Lactobacillus	Avinash	Waste And Biomass	May,	1	01	Sant Longowal

	. C + A		Thalus	111		2010		1		1
casei Using Low	·		Thakur	^	alorizatio	2019				Institute of
Industrial Wast		rbon		n						Engineering
and Nitrogen So	and Nitrogen Sources									&
										Technology
A review on em	ulsion	liquid	Avinash	R	eviews In		0		0	Sant
membrane (ELN	∕I) for t	he	Thakur	E	nvironme	Marc				Longowal
treatment of va	rious			n <sup>.</sup>	tal	h				Institute of
industrial efflue	ent stre	ams		S	cience	2019				Engineering
				A	nd					&
				В	io/Techno					Technology
					gy					
					<b>76</b> 1					
3.4.7 Faculty pa				rend		-		_		
No. of Facu		Interr	ational level	+	National	Ievel	Sta	te le	evel	Local level
Attended Semii Workshops	nars/		24		38			1		19
Presented paper	rc		30		24			0		2
Resource Perso			4		15			1		6
3.5 Consultance			•							
3.5.1 Revenue g		ed from	Consultancy d	lurin	g the year					
Name of th			of Consultancy		Consulting/S	Sponsorii	ng Ageno	СУ	Reve	enue generated
Consultant(	(s)		project							ount in rupees)
departmer	department									
3.5.2 Revenue §	generat	ed from	Corporate Tra	inin	ning by the institution during the year					
Name of the	Title	e of the	Agency	,	Revenue generated		ed	١	lumbei	of trainees
Consultant(s)	Prog	gramme	seeking	5	(amount	in rupee	es)			
&			training	5						
Department										
ELECTRICAL &	Impar		The Institu		70000/-			7 students participated		
INSTRUMENT ATION	practi trainii		of Engine				20			8 students
ENGINEERING		ng to students	, ,				μa	itic	ipateu	in 2019
Prof. P.S.		ost-	Students	of	11400/-		17	7 çtı	udents	
Panesar,		aduate	IGNOU		11.00/		'	500	AGCIICS	
Programme	_	iploma i								
Incharge		uality								
(IGNOU),		lanagem								
Deptt. of		nt								
Food Engg. &	- D	iploma i	n							
Technology		alue								
		dded								
		roducts								
		r cereal								
		nd O	II							
		eeds iploma II								
		ipioma ii alue	'							
		dded								
		aaca	1							

	roduct in		
	egetables		
3.6 Extension Activitie	_	-	
	•	grammes conducted in colions through NSS/NCC/Re	llaboration with industry, ed cross/Youth Red Cross (YRC)
Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers coordinated in such activities	Number of students participated in such activities
Six Monthly Interactions Of Head Of Institution With Addl Dte Gen,Ph Hp&Chd,Chandigarh At Patiala On 24th August 2018	Thapar institute, Patiala	ANO,Lt Vinod Kumar Meena, alongwith Dean(SW)	NCC cadets of Punjab
Second anniversary of surgical strike day on 28/9/18 at 4:30 pm	NCC SLIET	ANO, Lt Vinod Kumar Meena, alongwith Director, Dean(SW), CSO, Security personnel	All NCC cadets alongwith some other students
Rashtriya Ekta Diwas on 31st October 2018	NCC SLIET alongwith all government offices	ANO, Lt Vinod Kumar Meena, alongwith Director, Dean (Academics), Dean(SW), CSO, Security personnel	All NCC cadets alongwith some other students
Armed forces flag day on7th December 2018	NCC SLIET in collaboration with District Defence Services Welfare Officer, Sangrur	ANO, Lt Vinod Kumar Meena	All NCC cadets alongwith some other students
communal harmony week from 19th to 25th November 2018 and flag day on 24th November 2018	NCC SLIET in collaboration with National Foundation for Communal Harmony,9thfloor,' C'Wing,LokNayak Bhawan, Khan Market, New Delhi-110003	ANO, Lt Vinod Kumar Meena	All NCC cadets alongwith some other students
ATC(Annual Training Camp)-114 of NCC w.e.f. 12 Jun to 21	ASRA Group of Institution Patiala	ANO, Lt Vinod Kumar Meena	3 NCC cadets

Jun 2019.	in collaboration with 14 PB BN NCC Nabha				
Motivitational and Career Awareness session at Bhammabaddi, Sangrur	NSS, SLIET (Sept./Oct. 2018)	01		-	SLIET Students) 50 village dren/students
Sewa Visit to Pingalwada	NSS, SLIET (28.10.2019)	02		30	
	-	tension acti	vities from Gove	ernm	nent and other recognized
bodies during the ye			Т		· · · · · · · · · · · · · · · · · · ·
Name of the Activity	Award/recognition		Awarding bodies		No. of Students benefited
Bharat Scout &	Nipun Certificate		Bharat Scout	&	
Guides, Punjab			Guides		47
Smart India	Finalists		MHRD		06
Hackathon	Participated and cleare level	ed first	Texas		04
Baja SAE	1 <sup>st</sup> in durability award				
India2019	Pride of Punjab winner	r	Baja SAE Ind	ia	19
Mega ATV Championship (Goa)	2 <sup>nd</sup> Runner up in Flat D	virt race	Auto sports In	dia	27
Aravalli Terrain	Overall 2 <sup>nd</sup> position		Infileague		24
Vehicle	First Endurance race		Motorsports	&	
Championship	Best Driver award		AICTE		
(ATVC)	First runner up in Susp	ension and			
	Traction				
	First runner up in				
	Manoeuvrability				
	Second runner up in				
	Acceleration				
Efficyle 2018	Overall winner		Society of		09
	1 <sup>st</sup> in Endurance Race		Automotive		
	1 <sup>st</sup> in Cost Award		Engineers (SA Northern Ind		
	1 <sup>st</sup> in Drive Excellence		Section		
	1				

80

20

22

Society of

Automotive

Engineers (SAE)-

Western India

Section

Society of

Automotive

Engineers (SAE)

ISNEE(Indian

Eco Green Vehicle

Challenge (

EGVC2019)

7<sup>th</sup> Season of

(IGC-2019) Go Kart Design

International Go

Kart Championship

Overall winner

Endurance award

Overall 2<sup>nd</sup> winner

Manoeuvrability Award

Design runner up award

Best build Quality winner

Endurance 1<sup>st</sup> Runners up

Design Evolution -3rd

Challenge Season6-	Disassemble test-2 <sup>nd</sup>	Society of New	
2018	Accetation-3rd	Era Engineers)	
	Autocross-3rd		
	Skidpad-3rd		
	Endurance Race-4th		
	Overall-4th		
3 <sup>rd</sup> Season of			
Indian Karting	Secured overall Rank 15 among	Nexus motors	
Championship	155 teams	sports	22
Code Vita	Job offer/ internship	TCS	04 students got job offer
			and 01 students got
			internship
Code jam	Qualified for 2 <sup>nd</sup> round	Google	04
Hackwithinfy	Qualified for 2 <sup>nd</sup> round	Infosys	02

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 coordinated in such activities	Number of students participated in such activities
SLIET Electoral Literacy Club	SLIET Electoral Literacy Club	Training program on EVM/VVPAT Voting machines on 23.01.2019	01	60
SLIET Electoral Literacy Club	SLIET Electoral Literacy Club	Celebration of National Voter's day on 25.01.2019	10	80
SLIET Electoral Literacy Club	SLIET Electoral Literacy Club	SVEEP(Systematic Voter's Education and Electoral Participation on 14.04.2019	05	90
ISTE	ISTE SLIET STUDENT CHAPTER	Hostel Quiz 02.01.2019	01	800
ISTE	ISTE SLIET STUDENT CHAPTER	Brain Storming27.01.209- 15.02.2019	01	200
ISTE	ISTE SLIET STUDENT CHAPTER	Department face off 30.01.2019- 02.02.2019	01	100

ISTE	ISTE SLIET	Tech-	01	100
	STUDENT	Auction23.02.2019		
	CHAPTER			

# 3.7 Collaborations

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

year			
Nature of Activity	Participant	Source of	
		financial support	Duration
International Project:	From India-	DST	3 years
	Dr. Surinder Singh, Prof. ECE Department		
Project: Design and	SLIET, Longowal &		
Development of	From ASEAN side		
Novel Optoelectronic	Dr. Quang Minh, Head of Laboratory of		
Devices for High	Materials and Engineering Science, Hanoi,		
Speed Reconfigurable	Vietnam		
Optical Access	Dr. Amin Malekmohammadi, Department of		
Networks	Electrical & Electronic Engineering, University		
	of Nottingham, Malaysia.		
International Project:	Coordinator Prof. Surinder Singh from SLIET,	DST	2 years
	Longowal with Russian partner Dr. Elena		
Project: Indo-Russian	Anashkina, Institute of Applied Physics of		
Joint project entitled	Russian Academy of Sciences (IAP RAS),		
"Optical Metrology of	Russia		
Ultra-Short Pulses for			
Design of Flexible			
MIMO Based Next			
Generation Optical			
Communication			
Networks".			

# 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)	Duration (to)	Participant
Industrial Training of SLEIT Students	Internship/Training Program	Rail Coach Factory, Kapurthala, Punjab	23/05/201 9	05/07/20 19	05
Industrial Training of SLEIT Students	Internship/Training Program	Diesel Loco Modernization Works, Ministry of Railway, Patiala, Punjab	23/05/201 9	05/07/20 19	03
Industrial Training of SLEIT Students	Internship/Training Program	Bihar State Power (Holding) Company Limited, Patna, Bihar	23/05/201 9	05/07/20 19	05
Industrial Training of SLEIT Students	Internship/Training Program	Tirhut Dudgh Utpadak Sahkari Sang Ltd., Muzaffarpur, Bihar	23/05/201 9	05/07/20 19	07
Industrial Training of SLEIT Students	Internship/Training Program	Barauni Refinery (IOCL), Barauni, Begusarai, Bihar	23/05/201 9	05/07/20 19	20
Industrial Training of SLEIT Students	Internship/Training Program	Himachal Pradesh State Electricity Board Limited, Hamirpur (H.P.)	23/05/201 9	05/07/20 19	25
Industrial Training of SLEIT Students	Internship/Training Program	Federal-Modul Goetze (India) Limited, Bahadurgarh, Patiala (Pb.)	23/05/201 9	05/07/20 19	01

	I			/ /	
Industrial Training of SLEIT Students	Internship/Training Program	Pepsico India Holdings Pvt. Ltd., Channo, Sangrur (Pb.)	23/05/201 9	05/07/20 19	05
Industrial Training of SLEIT Students	Internship/Training Program	Ralson India Limited, Ludhiana (Pb)	23/05/201 9	05/07/20 19	02
Industrial Training of SLEIT Students	Internship/Training Program	Bonn Nutrients Pvt. Ltd., Ludhiana (Pb)	23/05/201 9	05/07/20 19	02
Industrial Training of SLEIT Students	Internship/Training Program	Lincoln Electric India, Chennai, Tamilnadu	23/05/201 9	05/07/20 19	02
Industrial Training of SLEIT Students	Internship/Training Program	Plasto Power Engineers, Sangrur, Punjab	23/05/201 9	05/07/20 19	01
Industrial Training of SLEIT Students	Internship/Training Program	Truneek	23/05/201 9	05/07/20 19	50
Expert Talk	Visiting Expert form Industry Adobe India	Mr. Milind Kumar Jha, Sr. Program Manager, Adobe India	24 <sup>th</sup> September 2018	24 <sup>th</sup> September 2018	109
Expert Talk	Visiting Expert form Industry Panasonic India	Mr. Pankaj Rana, Head-Mobility Division, India, South Asia, Middle East & Africa, Panasonic India Pvt. Ltd.	27 <sup>th</sup> March 2019	27 <sup>th</sup> March 2019	280
Expert Talk	Visiting Expert form Industry Quark City, Mohali	•	29 <sup>th</sup> March 2019	29 <sup>th</sup> March 2019	113
Internship	Internship	<ul> <li>NIT         Uttrakhand     </li> <li>Federal         Mogul         Corporation         Limited,         Patiala     </li> </ul>	June- 19	June- 19	04 students of PG completed internship

Ghahir Agro
Industry
Limited,
Sangrur
Pharmaffiliat
es Analytics
& Synthetics
(P) Ltd., Plot
No. 225,
Industrial
Area Phase-
II, Panchkula,
Haryana- 134
109

3.7.3 MoUs signed with institutions of national, international importance, other universities, industries,

corporate houses etc. during the year

corporate nouses etc. during the year							
Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs				
Institute of Materials Science, Vietnam Academy of Science and Technology 18 Hoang Quoc Viet, Cau Giay, Hanoi, Vietnam and SLIET, Longowal	05/10/2018	Development of joint research projects Visit of personnel exchange — faculty members, research and young scientists Exchange of scientific and technical information Co-organization of short term training and faculty development programmes, seminars, symposia and conferences Other activities as may be agreed upon by the parties.	1 student and 1 teacher participated under MoU				
Pharmaffiliates Analytics & Synthetics (P) Ltd., Plot No. 225, Industrial Area Phase- II, Panchkula, Haryana- 134 109 and SLIET, Longowal	06/12/2018	Pharmaffiliates Analytics & Synthetics (P) Ltd., Plot No. 225, Industrial Area Phase- II, Panchkula, Haryana- 134 109 may offer summer/winter internship to the PG students of Chemistry and Food Engg. & Technology Department. Possibility will be explored to initiate teaching and R&D collaboration in the area of Chemistry/ Biotechnology as per need of both the organizations, possibilities may also be explored for sponsoring PG/ Ph.D. projects by Pharmaffiliates Panchkula with mutual consultation.	04 students of PG completed internship				

Homi Bhabha Cancer Hospital (HBCH Tata Memorial Centre), Sangrur and SLIET, Longowal	28/12/2018	for the studer Laboratory ex Start of new Institute Start of tea collaboration		available in this office may please take information from concerned
1. Atal Bihari Vajpayee Govt. Institute of Engineering and Technology, Pragatinagar , Shimla, and SLIET, Longowal	June- 2019	Exchange of technical information and exchange the purpose research, collaborative activities, events such workshops, training etc.	e of students for e of study and undertaking research jointly organize h as seminars, conferences and	may please take information from concerned
2. Federal Research Center, Institute of Applied Physics of the Russian Academy of Sciences (IAP RAS), 46 Ulyanov Street, Nizhny Novgorod, Russia And SLIET, Longowal	July- 2019	projects, vision exchanges- research students, exchange and technica organizations seminars, conferences	symposia and	under MoU
		D LEARNING RESOUR	CES	
4.1 Physical Facilit		n, for infractions	ugmontation desir	ag the year
	for infrastructure	ry for infrastructure a Budget utili	iugmentation during ized for infrastruction	
_	ntation	buuget utiii	ובכט וטו ווווומטנוטנוני	are development
	.27 Lakh		Rs. 690.32 Lak	h
	gmentation in infras	tructure facilities duri		
Facilities			Existing	Newly added
Class as a sea			447 Acres	
Class rooms			66 Nos.	
Laboratories			132	

Seminar Halls	6	
Classrooms with LCD facilities	Nil	7
Classrooms with Wi-Fi/ LAN	Nil	7
Seminar halls with ICT facilities	Nil	7
Video Centre		
No. of important equipments purchased (≥ 1-0 lakh)		10
during the current year.		
Value of the equipment purchased during the year (Rs. in Lakhs)		27436880.00
Others		
Guest House	1	-
Health Centre	1	-
Shopping Complex	1	-
Restaurant	1	-
Shops Alt-2	3	-
Shops near Transit Accommodation	1	-
Transit Accommodation	1	-
Bank and post office	1	-
Administrative Block	1	-
Auditorium Building	1	-
Estate Office	1	-
Check post	1	-
Bus Shelters	2	-
Coffee Booth	2	-
Faculty Club	1	-
Swimming Pool	1	-
LPG Godown	1	-
Community Centre	1	-
Electrical Sub Station	2	-
Over head Tank	2	-
Sports Complex	1	-

Stadium				1	L	-	
Student Activity Cen	tre			1	L	-	
Hostels				1	3	-	
K.V School				1	<u> </u>	-	
Houses				50	)5	-	
Director Residence				1		-	
Workshops					0	-	
4.2 Library as a Lear	ning Resour	rce					
4.2.1 Library is autor			Managem	ent System	(ILMS)}		
Name of the ILMS	Nature of	automation (f	ully or	Version		Year of automation	
software	partially)	(1)	, c.				
Alice for Window	Partially			6.00		2002	
4.2.2 Library Service	Existing			y added	ı	Total	
	No.	Value	No.	Value	No.	Value Value	
Text Books	101168		2312	1301632. 15	10348		
Reference Books							
e-Books							
Journals	8812	5156085			8812	5156085	
e-Journals	6980	9200000	4930	92 Lakh	1191	0 18400000	
Digital Database	03	Sponsored	03	Sponsore d	06	Sponsored	
CD & Video							
Library automation							
Weeding (Hard & Soft)							
Others (specify) (M.Tech. & Ph.D.	111		1264				
thesis)							
4.2.3 E-content dev Graduate) SWAYAN institutional (Learnir	1 other Mo	OOCs platforn nent System (L	n NPTEL/ .MS) etc	NMEICT/any	other	Government initiatives &	
4.2.3 E-content dev Graduate) SWAYAN institutional (Learnir	1 other Mo	OOCs platforn nent System (L	n NPTEL/ .MS) etc		other	e-PG-Pathshala CEC (Under Government initiatives & Pate of launching e -	
4.2.3 E-content dev Graduate) SWAYAN institutional (Learnir	1 other Mo	OOCs platforn nent System (L	MS) etc Platfori	NMEICT/any	other	Government initiatives &	
4.2.3 E-content dev Graduate) SWAYAN institutional (Learning Name of the Name	1 other Mo	OOCs platforn nent System (L dule	MS) etc Platfori	'NMEICT/any m on which	other	Government initiatives &	

4.3.1 Technology Upgradation (overall)

	Total	Comput	Intern	Browsin	Compute	Office	Department	Availabl	Others
	Computers	er Labs	et	g	r Centres		S	e band	
				Centres				width	
								(MGBPS	
								)	
Existin	2689	20	1	24	02	46	11	1	
g									
Added	55	0	-						
Total	2744	20	1	24	02	46	11	1	

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

1 GBPS

#### 4.3.3 Facility for e-content

_ !						
	Name of the e-content development facility*	Provide the link of the videos and media centre and				
		recording facility				
	NPTEL Video lectures	10.1.0.102/localguru (available on INTRANET)				

<sup>\*</sup> E-content development (recording) facility is not available in the Library.

#### 4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned	Expenditure incurred	Assigned budget on	Expenditure incurred on
budget on academic	on maintenance of academic facilities	physical facilities	maintenance of physical facilities
facilities			
2789.16 Lakh	2138.38 Lakh	889.27 Lakh	675.77 Lakh

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, provide link)

Consequent upon the decision, taken by Govt. of India in 1985, to tender a valuable, yet humble tribute to the everlasting memory of the revered saint, Sant Longowal Institute of Engineering and Technology took its shape. The institute was established by Ministry of Human Resource and Development (MHRD), Govt. of India in the year 1989 and was formally inaugurated on 20th December 1991.

There are 14 Hostels which includes 10 nos. Boys Hostels, 03 nos. Girl Hostels and 01 no. PG Hostel (Girls), with an upgraded facility including Sports grounds, Wi-Fi, Bed, Mattress, Table, Chair, TV room, Carom Board, Volleyball Ground etc.. Following are the academic building in the Institute.

Science Block, Mechanical Block, Workshops, Chemical & food Block, Computer Block, Electronic Block Old, Electronic Block New, EDP Block, Library Buildings, Student Activities Centre.

Moreover other buildings in the campus are Administrative Block, Auditorium Building, Guest House, Transit Accommodation, Director Residence, Estate Office I/c ESS-I & ESS-II, Faculty Club, Swimming Pool, Shopping Complex, Restaurant, Post Office, Bank (Central Bank of India), three shops in-front of girls hostels, three Shops near Boys Hostel no. 07, stadium with 400 meter track, 02 nos. pump Houses and sewerage pump house (01 no.) with Oxidation pounds and pump house (01 no.) with lifting facility

of treated waste water to irrigate the plants of institute in the forest areas, KV School Building with well equipped furniture and sport facilities, 02 no. Over head water tanks, 02 nos. Bus Stands, Security Check Posts at Duggan main gate & Longowal Main Gate, Main Boundary Wall Campus more than 7 feet height and there is excellent road networking inside the campus.

In addition to the above the Institute also have Residential Buildings (505 No.) wherein the detail of verius type of accommodation in as follows: Type-I Qtrs = 72, Type Qtrs –II = 90, Type –III Qtrs = 219, Type – IV Qtrs = 84 & Type – V Qtrs = 40.

Maintenance of various facilities and Institute area (447 Acre approxi.) under taken through the various work heads as follows:-

- 1. Annual Repair & Maintenance of Hostel & Academic Buildings (Civil & Internal Public Health) at SLIET, Longowal.
- 2. Annual Repair & Maintenance of Residential & Other Buildings (Civil & Internal Public Health) at SLIET, Longowal.
- 3. Annual Repair & Maintenance of External Water Supply and Sewerage System at SLIET, Longowal.
- 4. Supply of Hardware materials as per list required for carrying-out Annual Repair and Maintenance of buildings at SLIET, Longowal.
- 5. Supply of Sanitary materials as per list required for carrying out Annual Repair and Maintenance of buildings at SLIET, Longowal.
- 6. ARM & Development of Horticulture work at SLIET, Longowal.
- 7. Providing sanitation Services at SLIET, Longowal.
- 8. Requirement of outsourcing workers at SLIET, Longowal.
- 9. ARM of Electrical Work at SLIET, Longowal.
- 10. ARM of Roads inside Campus at SLIET, Longowal.

The security in campus is ensured through the outsourcing security personals / manpower.

http://sliet.ac.in/wp-content/uploads/2019/12/IQAR-Report-2019-1.pdf

# **CRITERION V - STUDENT SUPPORT AND PROGRESSION**

#### **5.1 Student Support** 5.1.1 Scholarships and Financial Support

J.1.1	ocholar ships at	14 1 1116	ariciai	Juppe	<i>)</i>
				/	٠.

	Name /Title of the scheme	Number of students	Amount in Rupees
Financial support	Poor Student Aid Fund	05	Rs. 88000/-
from institution			
Financial support fro	m other sources		
a) National	Online scholarships	626	As per funding Agencies
b) International	Nil	Nil	Nil

- 1. Remedial Classes for Integrated Certificate Diploma (ICD) and Under-graduate (UG) students by the teaching departments
- 2. Meetings with Class Representatives (CRs) by Heads of the Departments (HODs) and Academic Section, from time to time
- 3. Merit Scholarships to Integrated Certificate Diploma (ICD), Under-graduate (UG) and Post-graduate (PG) students under SLIET Merit Scheme during National Festivals

- 4. Tuition Fee waiver to poor and needy students
- 5. UG and PG students allowed to attend national conferences by the Institute under Grant in Aid.
- 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	Date of	Number of	Agencies involved
enhancement scheme	implementation	students enrolled	
Online Programming	10.08.2018	25	SLIET SOFTWARE
Competition			DEVELOPMENT CLUB
Mathematics	06.10.18	24	-Do-
Competition			
Code-Camp1	19.01.19	20	-Do-
Code Baton	15.03.19	45	-Do-
Work shop on	25-26 th Jan .2019	60-70 student	Communication Skills And
advanced Learner's		participated	Personality Development Club
Programme			
for degree students			
Two day workshop on	Feb.27-28,2019	50-60 students	C.S.P.D C.
mental ability		participated	
For ICD students			
Two days workshop	20.02.2019	60-70 students	C.S.P.D C.
on Communication		participated	
Skills			
Informal meetings(03)		70-100 students	C.S.P.D C.
with ICD students		participated	
Let's LEARN TO TALK"	As per their study	50-60 students	C.S.P.D.C
	schedule &	participated	
	availability of		
	students		
Daily yoga	Daily	Open for all	Health Yoga club committee
		students, staff &	
		Faculty	
Meditation	Daily	Open for all	Health Yoga club committee
		students, staff &	
		Faculty	
International Yoga day	21.06.2018	Open for all	Health Yoga club committee
		students, staff &	
		Faculty	
Physical Training (PT)	July, 2018	250	SLIET, Longowal

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

Year	Name of	Number of	Number of	Number of students	Number of
	the	benefited students	benefited	who have passed in	students
	scheme	by Guidance for	students by	the competitive exam	placed
		Competitive	Career		
			Counselling		

examina	ation	activities				
		N/A				
5441	· ·	<u> </u>		1.6.1		
5.1.4 Institutional mechanis sexual harassment and ragg	•	•	reares	ssai of student grievan	ces, Preve	ntion of
Total grievances received		nces redresse	ed	Average number of c	lays for gri	evance
				redressal		
07		07		90		
5.2 Student Progression		U				
5.2.1 Details of campus plac		tne year		Off Campi	uc.	
On Campus Off Campus						
Name of Organization	Numbe	Number of	Nan	ne of Organization	Numbe	Number
Visited	r of	Students		Visited	r of	of
	Studen	Placed			Studen	Students
	ts				ts	Placed
	Partici				Particip	
	pated				ated	
Hindustan Unilever Limited,	84	04	BYJU	'c	10	03
Gurugram (Hul)	04	04	BIJU	3	10	05
Gurugram (mui)			Msrk	Food Products Pvt.	01	01
			Ltd.,	Ambala		
Tata Consultancy Service	52	11		n Beverages Limited,	01	01
			Noid	a		
Catalystone Info Solutions P	vt. 41	02	Np F	resh Food Pvt. Ltd.,	02	02
Ltd.			Ludh			
Cogniter Technologies, Moh	ali 44	05		ertification Pvt. Ltd.,	01	01
			Gurg	aon		
Infosys Limited	187	58	Jai B	everages Pvt Ltd.	01	01
	10,	30	Jul B	everages i ve zea.	01	01
Ashriya Infotech Pvt. Limited	42	09	Tech	noplanet Lab Pvt.	01	01
			Ltd.			
Sangrur Agro Pvt. Ltd.	10	04	Vacn	not	01	01
Sangrui Agro Pvt. Ltu.	10	04	Vacii	iet	01	01
Godrej & Boyce Mfg.Co.Ltd.	, 55	06	New	tos Enviro	02	02
Mumbai			Engir	neering Noida(Up)		
Cheema Boilers Limited	37	06				
Ludhiana Beverages Private	22	03				
Limited, Ludhiana (Coca Col						
Bunge India Private Ltd.	34	02				
	_					
Bikano Food Pvt. Ltd.	48	03				

Torren	t Group	35	04	1				
	·							
_	Eastern Ship	20	02	2				
	gement (India) Pvt. Ltd. un Corp. Limited	25	03	3				
•	· 							
Vardhı	man Group	40	05	5				
Ralson	ı Group	15	10	)				
Covale	ent Laboratories Pvt. Ltd	12	10	)				
Mahin	dra & Mahindra Ltd.	62	03	3				
Jindal	Steel & Power Limited	60	06	õ				
Chc As	ia Consulting, Quark Iohali	02	01	L				
	r, Mohali	16	06	õ				
Kangai	ro, Ludhiana	19	04	1				
	andhari Beverages Pvt oca-Cola)	11	02	2				
	an Cast & Forge Ltd.,	48	02	2				
	n Auto Components Ltd.,	28	03	3				
Ludhia	ina							
New S	wan Group, Ludhiana	17	01	l.				
Artesia	an Software	58	0					
Techno	ologies Llp, Mohali							
Jaro Ed	ducation, Mumbai	130	0					
Hpcl N	Nittal Refinery, Bathinda	19	0					
Standa	ard Tractor, Barnala	20	0					
Nestle		29	0					
5.2.2 \$	Student progression to hig	her educa	tion in	percer	ntage durii	ng the year		I
Year	Number of students	Program	me	Depa	rtment	Name of	Name o	of
	enrolling into higher	graduate	d	gradı	uated	institution	Progran	mme
	education	from		from		joined	admitte	ed to
2018	01	M.Sc.		Chen	nistry	IIT, Roorkee	Ph.D.	
		(Chemist	ry)		,	,,		
2018	01	M.Sc		Physi	ics	IIT, Jodhpur	Ph.D	

2018	02	M.Sc. (Maths)	Mathematics	SLIET	Ph.D.
2018	01	M.Sc. (Maths)	Mathematics	IIT, Patna	Ph.D.
2018	02	M. Tech.	Food Engg. & Technology	SLIET, Longowal	M.Tech.
2018	01	Post Graduate Diploma	Food Engg. & Technology	IIM, Lucknow	Post Graduate Diploma
2018	04	M.Tech.	Computer Science & Engineering	NIT, Delhi IIT, BHU IIT, Jammu IIT, Lucknow	Ph.D.
2018	01	Degree Chemical Engineering	Chemical Engineering	IIT, Bombay	M. Tech
2019	2	M Tech	EIE, SLIET	EIE, SLIET	PhD
2019	2	B Tech	EIE, SLIET	EIE, SLIET	M Tech
2019	1	B Tech	EIE, SLIET	NIT Karnataka	M Tech
2018	1	B Tech	EIE, SLIET	IIT Madras	MS Research
2018	1	B Tech	EIE, SLIET	University of Allahabad	M Sc
2018	1	B Tech	EIE, SLIET	NIT Agartala	M Tech
2018	1	B Tech	EIE, SLIET	MNIT Jaipur	M Tech
2018	1	B Tech	EIE, SLIET	IIT Guwahati	M Tech
2018	2	M Tech	EIE, SLIET	EIE, SLIET	PhD
2018	1	B Tech	EIE, SLIET	EIE, SLIET	M Tech
	udents qualifying in stat			_	·
(eg.ive	Items		dents selected/		umber/roll number
		qu	alifying	for t	he exam
NET			2		50513 //1750406
SET				FOFF	
SLET			1	17	50506
GATE			33		50455
					//1750406 //1750405
				PGPH	7/1750405

		ME19S118040093
		ME19S118040004
		ME19S118040006
		ME19S118040004
		ME19S118040136
		ME19S118040141
		ME19S118040105
		ME19S118040130
		ME19S118040062
		ME19S118040032
		ME19S118040102
		ME19S118040102 ME19S118040110
		ME19S118040110
		ME19S118040128 ME19S118040088
		GCS-SL/15/4013
		GCS-SL/15/4018
		GCS-SL/15/4023
		GCS-SL/15/4025
		GCS-SL/15/4028
		GCS-SL/15/4039
		GCS-SL/15/4048
		GCS-SL/15/4105
		GCS-SL/15/4206
		GCS-SL/15/1630207
		GCT-SL/15/4114
		GCT-SL/15/4117
		GCT-SL/15/4126
		GCT-1630133
GMAT		
CAT		
GRE		
TOFEL	1	898/48
Civil Services		
State Government Services		
Any Other	02	GCT-1630125
-	(Selected in HPCl and DRDO)	GCT-1630127
	3	NA
Private Company/Any Other		
Railway-Group D/State Govt.		
Services	1	NA
Jei viles		INA
5.2.4 Sports and cultural activities		
Activity	Level	Participants

Activity	Level	Participants
Sliet Open Table Tennis (B&G)	6.8.18 - 10.08.2018	
Tournament		

Sliet Open Chess(B&G) Tournament	28.8.18-31	8.18		
	24 0 40 20			
Sliet Open Badminoton(B & G)Tournament	24.9.18-28	3.9.18		
dyrournament				
Inter Hostel Basketball	21.1.19-30	.1.19		
(B&G)Tournament				
Inter Hostel	21.1.19-30	.1.19		
Volleyball(B&G)Tournament				
Inter Hostel Cricket Tournament	1.2.19 -10	.2.19		
Sliet Open Yoga(B&G) Tournament	7.2.19	)		
Sliet Open Taekwondo	21.2.19-22	.2.19		
Championship(Boys And Girls)				
Conducted Foodball Camp By IYSA	5.3.19-7.3	3.19		
Coaches & Arsenal Coaches				
Total Number Of Boys Team =12Girls				
Team =4				
Annual Sports Meet 2019(Boys And	12.3.19			
Girls)				
Sliet Open Squash (B&G) 2019	15.4,19-16.4.19			
Cultural				
Madhuman (authum 12010)				
Madhuram (cultural 2019) Institutional Level				
institutional Level				265
5.3 Student Participation and Activities				
5.3.1 Number of awards/medals for outs	• •	•	-	ties at national/
international level (award for a team ever Year Name of the National/	Sports	Cultural	Student ID	Name of the
award/ medal International		Carcarar	number	student
2019 Utkansm'19 NIT National		Cultural	GME/1731847	Kartik Malhotra
Jalandhar		Fashion		Head BMW
		show		team
April Silver	Atheletic		Gwt 1731812	Barkha kumari
2018	S			_
	H-Jump			
Propre	•		Curt 1721012	Darkha kumasi
Bronze	Atheletic s		Gwt 1731812	Barkha kumari
	J-Throw			

	Bronze	D-Throw	Gee	Dishwani Sonkar
			110579	
	Bronze	Relay	Gwt1731812,	Barkha kumari,
		4x400m	Gcs1731338,	Pushpanjali,
			Gin1731913,	Reechal,
			Gct1731107	Nidhi
	Silver	Kabaddi	Gwt1731836	Gurjeet singh
	Silver	Kabaddi	Gme1640155	Satnam Singh
	Silver	Kabaddi	Pg/wlf175015 2	Sarboji
	Silver	Kabaddi	Gcs1731312	Manjot singh
	Silver	Kabaddi	Gme1731729	Yadwinder Singh
	Silver	Kabaddi	Dme/cac1610 28	Satyam Kumar
	Silver	Kabaddi	Dft/cfp161005 0	Taranjeet Singh
	Silver	Kabaddi	Dct/cpt161015 7	Harpreet Singh
	Silver	Kabaddi	Gec1830291	Harsh Raj
:	Silver	Kabaddi	Gcs 1731378	Kulpuneet Singh
	Silver	Kabaddi	Gwt1831057	Ashutosh Singh
	Silver	Kabaddi	Dcs/cde18111 52	Ravi Prakash mishra
	Silver	Yoga	Gcs1830017	Yash Raj thakur
	Silver	Yoga	Gwt1731874	Ankit kumar tiwari
	Silver	Yoga	Gft1731940	Anal pushp
	Silver	Yoga	Cwg1712214	Abhishek yadav
	Silver	Yoga	Gcs1740560	Kanha jain
April 2019	Bronze	Atheletic s	Gin1731913	Reechal
		400m		

	Silver	800m	Gcs1630200	Sangeeta
	Silver	L-jump	Gee1731518	Shreya priya
	Silver	4*400m relay(w)	Gwt 1731812	Barkha kumari
	relay(w)	Gin1731913	Reechal	
			Gct1731107	Nidhi
			Gec1737932	Anjali
April 2019	Bronze	4*100 realy (W)	Gwt 1731812	Barkha kumari
2013		reary (vv)	Gin1731913	Reechal
			Gec1737932	Anjali
			Gee1731518	Shreya Priya
	Silver	J-throw	Gcs1731381	Nitin Nishant
	Silver	Shotput	Gme1731723	Bikram Singh
			Gme1731767	Nitin kumar Sharma
	Bronze	Volleybal I	Gft1731946	Anikait Tondon
	Bronze	Volleybal I	Gec1630031	Umesh Chander
Bronze Volleybal I Volleybal I	Volleybal I	Gin1630002	Anil Kumar	
	Bronze	Volleybal I	Din/csmm161 0433	Avinash Kumar
	Bronze	Volleybal I	Gct1830751	Karan Rana
	Bronze	Volleybal I	Gwt1630178	Ashish Tiwari
	Bronze	Volleybal I	Cfp1610565	Pradeep Sharma
	Bronze	Volleybal I	Gwt1731818	Sharanjeet Singh
	Bronze	Volleybal I	Gme1630083	Gaurav Sharma
	Bronze	Volleybal I	Gin1830364	Anand Kumar shukla

	Bronze	Volleybal I	Din/csmm161 0065	Nikhil Anand
17	Junior(Silver)	-58kg	Dincsmm1712	Sarthak Patiyal
Feb			774	
2019	Senior (Gold)	-54kg	Gcs1830048	Ashutosh Kumar
14 <sup>th</sup>	Seriioi (Gold)	-54kg	GC\$1830048	Ashutosh Kumai
Inter	Junior(Gold)	-58kg	Dmecff171205	Sumit Barnawal
Distri	, ,		9	
ct &				
Tricit	Senior(Gold)	-63kg	Pgphy1750403	Ahsaan Ali
y Taek	Senior(Silver)	-58kg	Dincsmm1712	Aanand Kumar
won	Semon (Silver)	301/8	797	Adriana Ramai
do			737	
Cha	Senior(Silver)	-63kg	Gcs1731375	Pavittar Singh
mpio				
nship	Senior(Silver)	-68kg	Dmecff161014	Gopal Krishna
At			7	Yadav
Guru	Lumin (Cilum)	C21-7	Dmectd18116	A chal Candilus
Nana k Vbt	Junior(Silver)	-63kg		Achal Sandilya
Polyt			52	
echni	Senior(Silver)	-74kg	Dmecff171262	Rahul Kumar
С	, ,		3	
Moh				
ali	Senior(Gold)	-74kg	Dincsmm1610	Kundan Kumar
			460	
	Luminu(Cilum)	741	Dia	Amara Caniaaa
	Junior(Silver)	-74kg	Dincsmm1712	Aryan Sanjeev
			784	
			1	

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

Presently there is no student council in the Institute.

# 5.4 Alumni Engagement

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

Yes Alumni Association is registered with No.DIC/DRA/10723 of 2017. The Alumni Association working on the upliftment of student in various aspects.

## 5.4.2 No. of registered Alumni:

2230

(Since the body is registered in Feb 2017, the process of registration is started through website and Google page. At present we had registered approximate 2200 Alumni without membership fee and approximately 30 alumni with registration fee.)

## 5.4.3 Alumni contribution during the year (in Rupees):

Alumni contribute approximately Rs 60,000 through membership fee only.

5.4.4 Meetings/activit	ties organized by Alumni Association:	
Date	Activity	Remarks
September 21, 2018 Abhivaykti	Mr. Ramandeep Singh (GEC-92 Batch) CEO QOS Technology	Industrial Revolution 4.0: Evolving Jobs and Cyber Security
October 07, 2018	NCR Chapter Meet	
October 08, 2018 Abhivaykti	Mr. Sunil Sood (GCS-91 Batch) Vice President & Head Global Sales Support Network Assurance at Ericsson.	<ul> <li>Career Journey from SLIET to Ericsson</li> <li>Latest Trends in Virtualization and Tele-Communication</li> </ul>
November 17, 2018	Annual Alumni Meet SLIET Campus	Student Alumni Interaction Meeting with T&P Reunion
February 2, 2019 Abhivaykti	Mr. Parveen Sharma (GCS-97 Batch) National Director IT at Shardul Amarchand Mangladas & Co	Demystifying Digital Transformations
February 26, 2019	NCR Chapter Meet	
April 23, 2019 Abhivaykti	Mr. Sahli Chauhan (DCE 2k15 passout)	Machine Learning
June 9, 2019	Bihar Chapter Establishment and Bihar Alumni Meet	1st Alumni Meet of 'Bihar Chapter'

#### CRITERION VI -GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 Institutional Vision and Leadership

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Sant Longowal Institute of Engineering & Technology (SLIET) is an autonomous body having the status of Deemed-to-be-University since 2007, fully funded and established by the Government of India. It is controlled by SLIET Society, registered under Societies Registration Act, 1860. As per Memorandum of Associations, Director, SLIET or any other Competent Authority of the Institute may delegate his powers to others employees of the Institute for betterment of the Institute. Director, SLIET has a team of following officers for execution of Institute's day to day affairs:

- 1. All academic related matters of the students are decentralized and are being looked after by Dean (Academics).
- 2. All hostel/mess related matters of the students are decentralized and now being dealt with by Dean (Student Welfare).
- 3. Work related to research & consultancy activities in the Institute is looked after by Dean (Research & Consultancy).
- 4. Works related to store, purchase infrastructure facilities, repair & maintenance of the Institute is decentralized and is being looked after by Dean (Planning & Development).
- 5. New position of Dean (Faculty & Staff Welfare) is created to look after the faculty and staff affairs. Dean (Faculty & Staff Welfare) is working for the welfare of the Institute staff and

faculty, helping the Director while framing rules related to leave, recruitment, health centre, trainings etc.

- 6. Registrar is looking after all the Administration and Accounts related matters.
- 7. Director has delegated his powers related to sanction of leave to faculty & staff to Dean (FSW), concerned HOD/Section Incharge.

#### 6.1.2 Does the institution have a Management Information System (MIS)?

Yes/No/Partial: Yes/Partial

Partial (a) Central Library b) Central Admission Cell c) Examination Cell d) Accounts Section e) Store & Purchase Section

ERP Development in progress.

# **6.2 Strategy Development and Deployment**

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

# Curriculum Development

The Institute has been alive to the fast-changing social, economic and industrial scenario. The Institute has adopted the semester system in place of the annual system of examination for effective organization of teaching, Learning and evaluation. This includes the introduction of continuous evaluation on the criteria of attendance, minor tests, assignments/classroom performance and end term examination (ETE). Institute has implemented AICTE Model Curriculum since 2018.

- Teaching and Learning
- Transparency is maintained in the whole of the admission process.
- Reservation of seats for differently-abled individuals is strictly followed as directed by the Central Government.
- The Semester system has been introduced and continuous evaluation has been made part of the evaluation programme.
- The Institute has established a Training & Placement Cell which looks after the placement of all the students of the Institute.
- Chief Counsellor is coordinating counselling system through class counsellors.
- Tutor Guardian and Student Mentorship Scheme to bridge the gap between faculty and students.
- Examination and Evaluation
- Examinations are conducted at a centralised place having a CCTV and mobile jammers to prevent examination related malpractices by the students.
- Seating arrangement and details are provided to the students before examinations.
- For the smooth conduct of evaluation, each department arranges the centralised evaluations of the end term examinations.
- The evaluated answer sheets are shown to the students to introspect their mistakes so that can be rectified in future.
- Academic calendar is modified to allow students to see evaluated answer sheets of end term examinations.
- Research and Development
  - The research work is undertaken by the faculty and research scholars of the Institute in the interdisciplinary areas to provide preventive and productive solutions for the problems of industry and community.
  - Targets are fixed at Department level for submitting externally funded projects.

- "SLIET Research Projhect Award" (SRPA) is introduced under which cash incentives to the SLIET Faculty for obtaining Externally Funded Projects from Extra-Mural Funding Agencies is given.
- "SLIET Quality Publication Award" (SQPA) has been introduced for Institute students under which they are give cash incentive for publishing research papers in Web of Science Journals with impact factor 1.0 or above.
- Library, ICT and Physical Infrastructure / Instrumentation
  - Library is automated with 30 number of computers, 01 printer for general access. Online access to content management system for e-learning and has a participation in resource sharing networks/consortia (like INFLIBNET).
  - Reading room remains open on 24X7 basis
  - Register is maintained in the Library to raise demand of books by the students.
- Human Resource Management
  - Human Resources are managed effectively through the meetings of the management with the heads of the departments/ sections.
  - On need basis time to time the staff is transferred from one department/ section to another to make effective utilization of human resources.
- Industry Interaction / Collaboration
  - Institute has a centralized Training and Placement Cell, which conducts various activities for the students. The Cell works to enrich the knowledge of the students by organizing Seminars/ Workshops/ Webinars/ Classes with help of experts invited from industry and educational Institutes.
  - Dean (Research & Consultancy) is looking after promotion of Industry- Institute Collaboration.

#### Admission of Students

- The admissions to Certificate-Diploma Program, Lateral Entry to UG Programs and Ph.D. Programs are made through SLIET Entrance Test (SET) conducted by the Institute at national level.
- All admissions in the Institute including for Ph.D. programmes are made on merit following reservation policy of the Centre Government.
- Admission to UG 4-year program is through JEE (Mains), for M.Sc program it is through CCMN along-with other NITs/IITs and CFTIs. The institute holds its own National Level Entrance test for the vacant seats (if any).
- The admissions to M.Tech programs is being done through CCMT along-with other NITs/IITs and CFTIs. The admission to MBA program is based on CMAT score and the institute may hold its own National Level Entrance test for the vacant seats (if any) Admissions to the Ph.D. Programmes are based on written test/ interview of the candidates short-listed by the Departmental Research Committee (DRC) of the Department concerned. The admission process is online with each-and-every information available online for the information of the candidates

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

- Planning and Development
  - All the tenders are invited through e-tendering process
  - All the procurement is being made using GeM Portal.
- Administration

The Institute has invited applications for recruitment of both Teaching & Non-teaching through Online mode.

#### Finance and Accounts

ERP Module has already been introduced in the Finance & Accounts Section of the Institute.

# Student Admission and Support

All the process related to admission at SLIET like application for admission, submission of Fee, issuance of Admit Cards for Entrance Tests & counselling are done using online module.

#### Examination

Process of ERP has already been initiated.

# **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

membe	rship fee of profe	essional bodies during the year		
Year	Name of	Name of conference/	Name of the professional body	Amount
	teacher	workshop attended for which	for which membership fee is	of
		financial support provided	provided	support
				(Rs.)
2018	Amar Partap	"8 <sup>th</sup> International Conference	University of Cordoba & City	168458
	Singh	on Information Science and	University of Hongkong at	
	Parwaha	Technology (ICIST 2018)"	Andalusia (Cordoba, Granada and	
			Seville), Spain	
2018	Surita Maini	"8 <sup>th</sup> International Conference	University of Cordoba & City	167909
		on Information Science and	University of Hongkong at	
		Technology (ICIST 2018)"	Andalusia (Cordoba, Granada and	
		th	Seville), Spain	
2018	Jagpal Singh	8 <sup>th</sup> International Conference	University of Cordoba & City	168032
	Ubhi	on Information Science and	University of Hongkong at	
		Technology (ICIST 2018)	Andalusia (Cordoba, Granada and	
2040	Control	The 2040 Laborational	Seville), Spain.	404072
2018	Sardool	The 2018 International	City Of BRNO, CZECH REPUBLIC	181973
	Singh Ghumman	Conference on Nanoscience +		
2010		Technology (ICN+T)	Anadamaias Wand at Brishana	110204
2018	Surinder	International Conference on Nanoscience,	Academics Word, at Brisbane, Australia.	118384
	Singh	Nanotechnology and	Australia.	
		Advanced Materials (IC2NW)		
2018	Manab	ISER – 411 <sup>th</sup> International	The International Society for	173084
2010	Bandhu Bera	Conference on Agricultural	Engineers & Researchers (ISER)	173004
	Banana Bera	and Biological Science (icabs –	and in Association with PET at	
		2018)	Melbourne, Australia.	
2018	Sunil Kumar	The 13 <sup>th</sup> International	The Society for Modeling &	
		conference on Bond Graph	Simulation International at	
		Modeling and Simulation	University of Bordeaux, Bordeaux,	
		(ICBGM '2018)	France.	
2018	Payal Malik	International Workshop on	Guru Jambeshwar University of	
		Nanotechnology :	Science & Technology, Hisar.	
		Nanoparticle Synthesis and	(Haryana).	8776
		Conjugation Chemistry for		
		Bioapplications		
2018	Himanshu	International Workshop on	Guru Jambeshwar University of	9625
	Rani	Nanotechnology:	Science & Technology, Hisar.	

			1	1
		Nanoparticle Synthesis and	(Haryana).	
		Conjugation Chemistry for		
2040	No al IV	Bioapplications "The 13 <sup>th</sup> International	The Control Control Control	
2018	Vivek Kumar		The Society for Modeling &	
		Conference on Bond Graph	Simulation International at	
		Modeling and Simulation	University of Bordeaux, Bordeaux,	
2010	Dankai	(ICBGM '2018) The 2018 International	France.  IAENG International Association	128162
2018	Pankaj Kumar Das	Conference of Electrical and		128162
	Kulliai Das	Electronics Engineering	of Engineers, London (U.K.)	
2018	Mohd. Majid	International Conference of	IAENG International Association	250157
2010	ivioria. iviajia	Mechanical Engineering ICME	of Engineers, WCE 2018 at	230137
		2018	London (U.K.)	
2018	Indraj Singh,	International Conference in	IAENG International Association	116664
2010	iliulaj Siligii,	Mechanical Engineering	of Engineers, WCE 2018 at	110004
		(ICME 2017)	London (U.K.)	
2018	Pradyuman	435 <sup>th</sup> International	The IRES, at Kuala Lumpur,	131464
2010	Kumar	Conference on Engineering	Malysia.	131404
	Kamai	and Natural Science (ICENS)	iviarysia.	
2018	Kamlesh	"The IRES -445 <sup>th</sup> International	Institute of Research Engineers &	151547
2010	Prasad	conference on Food and	Scientists (IRES) in association	131347
	. rasaa	Agricultural Engineering	with PET, at London, U.K.	
		(ICFAE)"	with 21, at 25 last, since	
2018	Charanjiv	"The IRES -445 <sup>th</sup> International	Institute of Research Engineers &	149311
2010	Singh Saini	conference on Food and	Scientists (IRES) in association	55
	Jan. Br. Cam.	Agricultural Engineering	with PET, at London, U.K.	
		(ICFAE)"	, , , , , , , , , , , , , , , , , , , ,	
2018	Lakhvinder	"ISER – 408 <sup>th</sup> International	The International Society for	58721
	Singh Solanki	Conference on Science,	Engineers and Researchers (ISER),	
		Technology, Engineering and	at Toronto, Canada	
		Management (ICSTEM)"		
2018	Damanpreet	"ISER-425 <sup>th</sup> International	The International Society for	183936
	Singh	Conference on Science,	Engineers and Researchers (ISER),	
		Technology, Engineering and	at Vienna, Austria.	
		Management (ICSTEM-2018)"		
2018	Amarjit	International Conference on	Academic World, at Pattaya,	122500
	Singh	Nanoscience Nanotechnology	Thailand	
	Dhaliwal	and Advanced Materials		
		(IC2NM)		
2018	Ajat Shatru	International Conference on	Hokkaido University, Sapporo,	138161
	Arora	Unmanned Aerial Vehicles in	Japan.	
		Environment		
2018	Ashwani	International Conference on	Hokkaido University, Sapporo,	122615
	Kumar	Unmanned Aerial Vehicles in	Japan.	
	Aggarwal	Environment		1
2018	Manoj	Seventh International	Institute of Research Engineers	105119
	Kumar	Conference on Advances in	and Doctors (IRED) at Kuala	
	Sachan	Computing, Electronics and	Lumpur, Malaysia.	
		Communication – ACEC 2018		
2018	Major Singh	Seventh International	Institute of Research Engineers	105119
	Goraya	Conference on Advances in	and Doctors (IRED) at Kuala	
		Computing, Electronics and	Lumpur, Malaysia.	

		Communication – ACEC 2018		
2018	Pratibha	Seventh International	Institute of Research Engineers	116379
	Tyagi	Conference on Advances in	and Doctors (IRED) at Kuala	
		Social Science, Management	Lumpur, Malaysia.	
		and Human Behaviour –		
		SMHB 2018		
2018	Jaspal Singh	438 <sup>th</sup> International	Institute of Research Engineers &	127993
	Gill	conference in Metallurgy	Scientists (IRES) in association	
		Technology and Materials – ICMTM 2018	with PET, at London, U.K.	
2018	Mahesh	International Conference on	Punjab University Campus,	
	Kumar Arora	Research Developments in	Chandigarh.	6725
		Arts, Social Science &		
		Humanities (ASH-2018)		
2018	Pushpa Jha	Energy Quest-2018	Wessex Institute, at New Forest,	73506
			United Kingdom.	
2018	Jagpal Singh	Workshop on "Sustainable	National Tsing Hua University	
	Ubhi	Environment and Energy	(NTHU), Hsinchu, Taiwan.	
		Development (SEED)		
		International Workshop"		
2018	Surita Maini	Workshop on "Sustainable	National Tsing Hua University	
		Environment and Energy	(NTHU), Hsinchu, Taiwan.	
		Development (SEED)		
		International Workshop"		
2018	Manoj	Refresher Course on	Chitkara University, Vill. Jansla,	
	Kumar Goyal	"Refrigeration and Air Conditioning"	Rajpura	
2018	Avinash	International Symposium on	Jointly By IIT Kanpur, PU,	7641
	Thakur	functional Materials: Energy	Chandigarh & UIC, USA at	
		and Biomedical Applications	Chandigarh.	
		(ISFM-2018)		
2019	Alka Singla	STC "Wireless Propagation"	NITTTR, Chandigarh	
2018	Parmjit Singh	International conference on	CSIR-IICT, Hyderabad during	
	Panesar	Biotechnological Research	November, 22-25, 2018.	
		and Innovation for		
		Sustainable Development		
		(BioSD-2018)		
2019	Sunil Kumar	STC on "Research and	NIT, Kurukshetra.	11100
		Professional Skills (RPS-2019)"		
2019	Murari	International Conference on	Nirmalagiri college, Kannur,	37075
	Mohan	Advance Materials – ICAM	Kerala.	
	Sinha	2019		1.5
2019	Anil Kumar	6 <sup>th</sup> International conference	Dr. B.R. Ambedkar NIT, Jalandhar.	16500
	Singla	on Production & Industrial		
		Engineering (CPIE 2019)		4====
2019	Anuj Bansal	6 <sup>th</sup> International conference	Dr. B.R. Ambedkar NIT, Jalandhar.	17960
		on Production & Industrial		
2042		Engineering (CPIE 2019)		40
2019	Jonny Singla	6 <sup>th</sup> International Conference	Dr. B.R. Ambedkar NIT, Jalandhar.	12450
		on production & Industrial		

		Enginee	ering (CPIE-2019)				
2019	Sumit Kumar	on Prod	rnational conference luction & Industrial ering (CPIE 2019)	Dr. B.R. Am	nbedkar NIT	, Jalandhai	r. 17642
	•	ional dev	elopment / administra eaching staff during th		orogramme	s organize	d by the
Year	Title of the profes development prog organised for teach	ssional gramme	Title of the administrative training programme organised for non- teaching staff	From Date	To date	No. of particip ants (Teaching staff)	No. of participants (Non-teaching staff)
201 8	STTP on "Mathem Modeling and Sta Techniques"			30.07.2018	03.08.2018	48	
201 8	STTP on "W Management Pra Environmer Sustainabili	ctices for		10.09.2018	14.09.2018	47	
201 8	STTP on "Recent Electronics Communica Engineerin	s & tion		24.09.2018	28.09.2018	41	
201 8	STTP on "Recent Mechatronic Robotics	s and		10.12.2018	14.12.2018	35	
201 8	STTP on "Emergir in Computing Networkin	g and		18.12.2018	22.12.2018	30	
201 9	STTP on "Art Intelligence a Sustainability" Twinning Act organized at N (Parent Cam	nd its under tivity NIT UK		18.03.2019	22.03.2019	28	
201 9	STC on "Rese Methodology Statistics" under Activity organize UK (Satellite Ca	y and Twinning ed at NIT		27.05.2019	31.05.2019	34	
201 9	STTP on "Adva Separation Proce Purification Tech	esses and		03.06.2019	07.06.2019	44	

SITP on "Office Automation and system management   10.06.2019   14.06.2015     23   23   24   24   25   25   26   26   26   26   26   26		1		, , , , , , , , , , , , , , , , , , ,				I
6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year  Title of the professional development programmes during the year  Title of the professional development programmes during the year  Title of the professional development programmes during the year  Number of teachers who auttended by AICTE  Faculty Development Program for Student Induction (FDP-SI)" Conducted by AICTE  Advances in Separation Processes and Purification Techniques (ASPPT-2019) organized by Department of Chemical Engineering and Department of Chemistry  NANOTECHNOLOGY: Nanoparticle Synthesis and Conjugation Chemistry or Bioapplications held at Guru Jambheshwar University of Science and Technology, Hisar, Haryana  Professional Development Training Programme under TEQIP-III at II.M.Shillong  Short term course on "Materials Characterization Techniques" organised by NIT Srinagar  Professional Development Training, III Shillong (India)  Participated in RICET-2019, TRACK –II, SLIETCON-2019, NITTIR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)	201				10.05.0010			
Management   Man	9				10.06.2019	14.06.2019		23
6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year  Title of the professional development programme of teachers who attended programme  From To Duration In Day  Number of teachers who attended  Faculty Development Program for Student Induction (FDP-SI)" Conducted by AICTE  Advances in Separation Processes and Purification Techniques (ASPPT-2019) organized by Department of Chemical Engineering and Department of Chemicaty  NANOTECHNOLOGY: Nanoparticle Synthesis and Conjugation Chemistry for Bioapplications held at Guru Jambheshwar University of Science and Technology, Hisar, Haryana  Professional Development Training Programme under TEQIP-III at II.I.M.Shillong  Short term course on "Materials Characterization Techniques" organised by NIT Srinagar  Professional Development Training, IIM Shillong, (For Principals/Directors) at IIM Shillong, (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK —II, SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)				•				
Refresher Course, Short Term Course, Faculty Development Programmes during the year   Title of the professional development programme   Number of teachers who attended   Paculty Development Program for Student Induction (FDP-SI)" Conducted by AICTE   Advances in Separation Processes and Purification Techniques (ASPPT-2019) organized by Department of Chemical Engineering and Department of Chemistry   NANOTECHNOLOGY: Nanoparticle Synthesis and Conjugation Chemistry   Socience and Technology, Hisar, Haryana   Professional Development Training Programme under TEQIP-III at II.M.Shillong   Short term course on "Materials Characterization Techniques" organised by NIT Srinagar   Professional Development Training, at II.M.Shillong (For Principals/Directors) at II.M.Shillong (For Principals/Directors) at II.M.Shillong (India)   Participated in RICET-2019, TRACK -II, SLIETCON-2019, NITTIR, Chandigarh.   Participated in RICET-2019, TRACK -II, SLIETCON-2019, NITTIR, Chandigarh.   Participated in Workshop on Outcome Based Education (OBE) System SLIET.   Page 18								
Title of the professional development programme    Sumber of teachers who attended   Sumber of teachers who attended   Sumber of Student Induction (FDP-SI)" Conducted by AICTE   Advances in Separation Processes and Purification Techniques (ASPPT-2019) organized by Department of Chemistry for Bioapplications held at Guru Jambheshwar University of Science and Technology, Hisar, Harryana   Professional Development Training Programme under TEQIP-III at I.I.M.Shillong   Short term course on "Materials Characterization Techniques" organised by NIT Srinagar   Simple of Sumber organised by NIT Srinagar   Simple organised by Simple organised by NIT Srinagar   Simple organised by NIT Sri	1			-				ogramme,
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teachers who attended Faculty Development Program for Student Induction (FDP-SI)" Conducted by AICTE  Advances in Separation Processes and Purification Techniques (ASPPT-2019) organized by Department of Chemical Engineering and Department of Chemistry  NANOTECHNOLOGY: Nanoparticle Synthesis and Conjugation Chemistry for Bioapplications held at Guru Jambheshwar University of Science and Technology, Hisar, Haryana  Professional Development Training Programme under TEQIP-III at ILM.Shillong  Short term course on "Materials Characterization Techniques" organised by NIT Srinagar O1 10 September 2018  Participated in RICET-2019, TRACK –II, Participated in RICET-2019, TRACK –II, Participated in RICET-2019, TRACK –II, Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Lim. Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  Lim. Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  Lim. Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  Liectnon 2018  Liectnon 2019 NITTR, Chandigarh.  Liectnon 2019 Nitron 2019 Canada (Control 2019)  Liectnon 2019 Nitron 2019 Nitron 2019  Liectnon 2019 Nitron 2019 Canada (Control 2019)  Liectnon 2019 Nitron 2019 Canada (Control 2019)  Liectnon 2019 Nitron 2019 Nitron 2019  Liectnon 2019  Liectnon 2019  Liect	litie	•	nent		From	10		
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Faculty Development Program for Student Induction (FDP-SI)" Conducted by AICTE  Advances in Separation Processes and Purification Techniques (ASPPT-2019) organized by Department of Chemical Engineering and Department of Chemistry  NANOTECHNOLOGY: Nanoparticle Synthesis and Conjugation Chemistry for Bioapplications held at Guru Jambheshwar University of Science and Technology, Hisar, Haryana  Professional Development Training Programme under TEQIP-III at II.I.M.Shillong  Short term course on "Materials Characterization Techniques" organised by NIT Srinagar  Professional Development Training, IIIM Shillong (India)  Participated in RICET-2019, TRACK –II, SLIETCON-2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  All Mash All All All All All All All All All Al								
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Student Induction (FDP-SI)" Conducted by AICTE  Advances in Separation Processes and Purification Techniques (ASPPT-2019) organized by Department of Chemical Engineering and Department of Chemistry  NANOTECHNOLOGY: Nanoparticle Synthesis and Conjugation Chemistry for Bioapplications held at Guru Jambheshwar University of Science and Technology, Hisar, Haryana  Professional Development Training Programme under TEQIP-III at I.M.Shillong  Short term course on "Materials Characterization Techniques" organised by NIT Srinagar  Professional Development Training, Billong (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK -II, SLIETCON-2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  O3 July, 2019.  7 June,	- 1		-		2011 2010	001100	10	
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Advances in Separation Processes and Purification Techniques (ASPPT-2019) organized by Department of Chemical Engineering and Department of Chemistry  NANOTECHNOLOGY: Nanoparticle Synthesis and Conjugation Chemistry of Bioapplications held at Guru Jambheshwar University of Science and Technology, Hisar, Haryana  Professional Development Training Programme under TEQIP-III at I.I.M.Shillong  Short term course on "Materials Characterization Techniques" organised by NIT Srinagar  Professional Development Training, IIM Shillong, (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK –II, SLIETCON-2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  O3 June, 2019.  16 July, 2018 20 July, 2018 5 days  20 July, 2018 5 days  2019 28 June, 2019  2018 29 June, 2019  2018 29 June, 2019  2018 2018 2018  2019 2019  2019 2019  2019 2019  2019 2019  2019 2019  2019 2019  2019 2019  2019 2019  2019  2019 2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019  2019	1	-	ucted					
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organized by Department of Chemical Engineering and Department of Chemistry  NANOTECHNOLOGY: Nanoparticle Synthesis and Conjugation Chemistry for Bioapplications held at Guru Jambheshwar University of Science and Technology, Hisar, Haryana  Professional Development Training Programme under TEQIP-III at I.I.M.Shillong  Short term course on "Materials Characterization Techniques" organised by NIT Srinagar  Professional Development Training, IIM Shillong, (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK -II, SLIETCON-2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  10 16 July, 2018 20 July, 2018 5 days  11 0 September 2018 22 June, 2019 2019  10 September 2018 2019  11 March, 2019 2 March, 2018  20 2 26.04.2019 26.04.2019 1 day  20 30 July, 2018 30 July, 2018 5 days  20 30 July, 2018 5 days	1	•		03	3 June , 2019.			5 days
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Jambheshwar University of Science and Technology, Hisar, Haryana  Professional Development Training Programme under TEQIP-III at I.I.M.Shillong  Short term course on "Materials Characterization Techniques" organised by NIT Srinagar  Professional Development Training, IIM Shillong, (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK —II, SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  10 September 2018  24 June, 2019 28 June, 5 days  2019  2018  September 2018  10 September 14  5 days  2018  2018  2018  2019  2 March, 2019  2 66.04.2019  2 66.04.2019  3 0 July, 2018  3 0 July, 2018  3 0 July, 2018  3 0 August, 2018	1 -							
and Technology, Hisar, Haryana  Professional Development Training Programme under TEQIP-III at I.I.M.Shillong  Short term course on "Materials Characterization Techniques" organised by NIT Srinagar  Professional Development Training, IIM Shillong, (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK –II, SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  10 September 2019  24 June, 2019 28 June, 2019  2019  10 September 14  5 days  September 2018  11 M September 2018  12 June, 2019  2019  2019  2018  2018  2018  2018  5 days  30 July, 2018  30 July, 2018  30 July, 2018  2018	1	• •						
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Programme under TEQIP-III at I.I.M.Shillong  Short term course on "Materials Characterization Techniques" organised by NIT Srinagar  Professional Development Training, IIM Shillong, (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK –II, SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  O1				04	40.00.10.10.1	1.1		F.J
Short term course on "Materials Characterization Techniques" organised by NIT Srinagar  Professional Development Training, IIM Shillong, (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK –II, SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  O1		•	_	01	•	1		5 days
Short term course on "Materials Characterization Techniques" organised by NIT Srinagar  Professional Development Training, IIM Shillong, (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK –II, SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  O1	_		ı at		2018		er	
Characterization Techniques" organised by NIT Srinagar  Professional Development Training, IIM Shillong, (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK -II, SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  2019  10 September 2018  2018  1 March, 2019  2 March, 2019  2 March, 2019  2 6.04.2019  2 6.04.2019  3 July, 2018  3 July, 2018  3 August, 2018			! - ! -	01	24 1 2010			
Organised by NIT Srinagar  Professional Development Training, IIM Shillong, (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK –II, SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  O1				01	24 June, 2019	-		5 days
Professional Development Training, IIM Shillong, (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK –II, SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  O1 10 September 2018  September 2018  1 March, 2019 2 March, 2019  2 26.04.2019  2 6.04.2019  3 July, 2018  3 July, 2018  3 July, 2018  3 July, 2018  5 days			ques			2019		
IIM Shillong, (For Principals/Directors) at IIM Shillong (India)  Participated in RICET-2019, TRACK –II, SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  2018  September 2018  2018  2 March, 2019  2 6.04.2019  2 6.04.2019  3 July, 2018			ining	01	10 Santambar	1.1		5 days
at IIM Shillong (India)  Participated in RICET-2019, TRACK –II, SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  2018  2018  2019  2 March, 2019  26.04.2019  26.04.2019  30 July, 2018  03 August, 2018		•	٠.	01	•		or	3 uays
Participated in RICET-2019, TRACK –II, SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  1 March, 2019  2 March, 2019  2 6.04.2019  2 6.04.2019  3 July, 2018  3 July, 2018  3 July, 2018		- · · · · · · · · · · · · · · · · · · ·	ctorsj		2018		-	
SLIETCON- 2019, NITTTR, Chandigarh.  Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  2019 26.04.2019 26.04.2019 30 July, 2018 03 August, 2018			K –II	02	1 March 2019			2 days
Participated in Workshop on Outcome Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  26.04.2019  26.04.2019  1 day  30 July, 2018  03 August, 2018	1			02	1 11101011, 2013	1	<b>'</b>	2 days
Based Education (OBE) System SLIET.  Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  O2 30 July, 2018 03 August, 2018				02	26.04.2019	+	9	1 day
Short Term Training Programme on Mathematical Modelling and Statistical Techniques (MMST-2018)  O2 30 July, 2018 03 August, 2018  2018		·		02	20.02013	20.0201	.	1 00,
Mathematical Modelling and Statistical Techniques (MMST-2018)	Jusec	Laddation (ODL) System .	~ L 1 L 1 .					
Mathematical Modelling and Statistical Techniques (MMST-2018)								
Techniques (MMST-2018)	Short	Term Training Programm	e on	02	30 July, 2018	03 Augus	t,	5 days
	Math	ematical Modelling and Stati	istical			2018		
NPTEL FDP Course "Introduction to 01 Aug-Sep, (Aug-Sep, 8 weeks	Techr	niques (MMST-2018)						
NPTEL FDP Course "Introduction to   01   Aug-Sep,   (Aug-Sep,   8 weeks						1		
			n to	01			),	8 weeks
Polymer Physics" 2018)	Polym	ner Physics"			2018)	2018)		
Short Term Training Program on Waste 03 10 Sept., 2018 14 Sept., 5 days	Short	Term Training Program on V	Vaste	03	10 Sent 2018	14 Sent		5 days
Management Practices for 2018					20 Jept., 2010		'	3 days
Environmental Sustainability (WMPES-		•				2010		
		• •	/1F E3-					
2018)	7018)	1						
Orientation Workshop on Outcome 1 28th May, 28th May, 1 day	Orien	tation Workshop on Out	come	1	28th May,	28th May	/,	1 day

Dood Education and Associatesian		2010	2010	
Based Education and Accreditation		2018	2018	
on by National Board of Accreditation, New Delhi				
Wireless Propagation	1	25/02/2019	01/03/2019	E days
	<u>_</u>	24/9/2019	28/9/2018	5 days
TEQIP-III Sponsored One Week Short	Э	24/9/2018	28/9/2018	5 days
Term Training Programme on Recent Trends in Electronics & communication				
engineering	2	19/2/2010	22/2/2010	F days
TEQIP-III Sponsored One Week Short Term Training Programme on Artificial	Z	18/3/2019	22/3/2019	5 days
Intelligence and Sustainable				
Applications				
FDP on Deep Learning and Application	01	27 <sup>th</sup> May, 2019	31 <sup>st</sup> May,201	5 days
FDF on Deep Learning and Application	01	27 Iviay, 2019	9	3 uays
FDP (NPTEL-AICTE) on Deep Learning	01	July,2018	Oct,2018	3 Months
(Nr TEL-AICTE) on beep tearning	01	July,2010	000,2018	3 WOULTS
STTP on Waste Management Practices	01	10 <sup>th</sup>	14 <sup>th</sup>	5 days
for Environment Sustainability		September-	September,2	,-
(WMPES-18)		2018	018	
STTP on Recent Trends in Electronics	03	24 <sup>th</sup>	28 <sup>th</sup>	5 days
and Communication Engineering		September,	September,2	,
(RIECE-18)		2018	018	
STTP on Mathematical Modelling and	01	30 <sup>th</sup> July, 2018	3 <sup>rd</sup> August	5 days
Statistical Techniques (MMST-2018)			2018	,
Analog CMOS Integrated Circuit Design	01	14 <sup>th</sup> April,	16 <sup>th</sup>	3 days
		2018	April,2018	,
STTP on Emerging Trends in Computing	04	18 <sup>th</sup>	22 <sup>nd</sup>	5 days
and Networking (ETCN)		December-	December	·
		2018	2018	
Professional Development Training	02	27 <sup>th</sup> May 2019	31 <sup>st</sup> May	5 days
under TEQIP-III			2019	
STTP on "Artificial Intelligence and	40	18 March,	22 March,	5 days
Sustainable Applications"		2019	2019	
Faculty Development Program on	82	20th July,	26th July,	1 Week
Student Induction program		2018	2018	
	02	27 May, 2019	31 May,	5 days
"Research Methodology" NIT Jaipur			2019	
Professional Development Training"	01	27 May, 2019	31 May,	5 days
IIM Udai Pur			2019	
"Professional Development Training"	02	17, June 2019	21, June	5 days
at IIM Indore			2019	
"Professional Development Training"	01	27 January,	31 January,	5 days
at IIM Kashi Pur		2019	2019	
"Professional Development Training"	01	18 June 2019	22 June 2019	5 days
at IIM Kozhikode				
STTP under TEQIP III on waste	01	10 Sept., 2018	14 Sept.,	5 days
management practices for			2018	
environmental stability department of				
Chemical Engg., SLIET				
6.3.4 Faculty and Staff recruitment (no. f	or perma	anent/fulltime recru	itment):	
Teaching			Non-teaching	
<u> </u>				

Permanent	Fulltime	e	Permanent	Fulltime
0	0		0	4
6.3.5 Welfare schemes	s for			
Teaching	As p	er Govt. N	orms	
Non teaching	As p	er Govt. N	orms	
Students	Onli	ne/Offline	Scholarship by State/ Gov	rt. of India
	1) 9	SC and OE	BC scholarship under Dr.	Ambedkar Scheme Punjab
	9	State Gove	rnment.	
	2) 9	SC/ST/OBC	/EBC scholarship under BIF	IAR State Government.
	3) (	Central Sec	tor scheme for person wit	n disability (N.S.P. 2.0)
	4) 1	NDIAN -PO	OSTAL services for the stud	ents of their employs.
	5) [	Minority So	cholarship (NSP 2.0 Portal)	
	6) 1	MCM Scho	larship	
	7) 5	SC, ST & O	BC scholarship from Jharkh	and State Govt.
	8) 9	SC, ST & O	BC scholarship from Himac	hal State Govt.
	9) 5	SC and Ger	. Scholarship from Utter P	radesh State Govt.
	10) 9	SC, ST & O	BC scholarship from Telang	ana State Govt.
		Scholarship Coach Fact		ilway employs wards (Rail
	12) 9	Scholarship	for the Punjab student's v	ward of Punjab Building and
		Constructir	ng Workers Welfare, Board	
	13) I	ndian Oil E	ducation Scholarship Sche	me.
	14) 9	State schol	arship of Utrakhand State.	
	15) 9	State schol	arship of Rajasthan State	
	16) I	PMSSS for	J & K students.	
	17) 9	Scholarship	of Delhi Govt.	
	18) 9	SC, ST & O	BC scholarship from Haryar	na State Govt.
	19) (	Poor stude	nts aid Fund- By Institute	
	20) /	AICTE (T.F.	W)	

## 6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)

Internal Financial Audit: The accounts of the Institute open to Inspection by the Govt of India/Audit Party of the Principal Accounts Office/Chief Controller of Accounts, MHRD, New Delhi. The Account shall be audited by the internal auditors/Chartered Accountants of the Institute and the Institute have hired the service of Chartered Accountant for Internal Audit, the Internal Audit of the Institute has been conducted upto financial year 2018-19.

**External Financial Audit:** The Institute is fully funded by the Govt. of India and Grant is being regularly received from MHRD, New Delhi. The account of the Institute open to Inspection by the Govt of India/Audit Party of the Principal Accounts Office/Chief Controller of Accounts, MHRD, New Delhi. The Accounts of the Institute finally to be audited by the Comptroller and Auditor General of India U/s 20(1) of the CAG of India (duties, powers & conditions of service) Act, 1971. The Audit of the Institute has been conducted upto the financial year 2018-19 by the Audit Party AG Punjab and Audit Report for the

year 2018-19 is awaited from the office of The Principal Director of Audit (Central), Chandigarh. 6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III) : NIL Name of the non government funding Funds/ Grants received in Rs. **Purpose** agencies/individuals 6.4.3 Total corpus fund generated 752.14 Lakh (as on 31.03.2019) 6.5 Internal Quality Assurance System 6.5.1 Whether Academic and Administrative Audit (AAA) has been done? **Audit Type** External Internal Yes/No Yes/No Authority Agency SLIET Academic No No Yes Administrativ No No Yes SLIET 6.5.2 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable) Not applicable 6.5.3 Activities and support from the Parent – Teacher Association (at least three) Till date such support is not in existence but the Institute has Initiated the process for this activity and from the next academic session, this activity is included in the Academic Calendar of the Institute. 6.5.4 Development programmes for support staff (at least three) 1. STTP on "Office Automation and System Management" held o 10.06.2019 to 14.06.2019 and total participants were 23. 2. Staff members were deputed for attending STTP at NITTTR, Kolkata and Bhopal. 6.5.5. Post Accreditation initiative(s) (mention at least three) i) To extend Central Computing facility and to make it available for students and staff for 24x7 with biometric entry. ii) Mentoring and counselling, weekly one-hour has been fixed in time table so that class counsellors can interact with their respective classes to extend counselling and mentoring. Engagement of behavioural male and female consultant on weekly visit iii) basis for needy male and female students and staff, respectively. 6.5.6 a. Submission of Data for AISHE portal: (Yes /No) : YES b. Participation in NIRF : (Yes /No) : YES c. ISO Certification : (Yes /No) : NO

d. NBA or any other quality audit : (Yes /No) 6.5.7 Number of Quality Initiatives undertaken during the year

	Name of quality	Date of conducting	Duration (fromto-	Number of
Year	initiative by IQAC	activity	)	participants
2019	Workshop on	06.05.2019	One Day (06.05.2019)	112
	Outcome Based			(1 <sup>st</sup> session = 60 &

: NO

	Education System			2 <sup>nd</sup> Session = 52)
2018	AICTE sponsored 7 days Faculty Development Program on 'Student Induction Program'	20.07.2018 to 26.07.2018	7 days (20.07.2018 to 26.07.2018)	86

### **CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES**

## 7.1 - Institutional Values and Social Responsibilities

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)	Partic	ipants
		Female	Male
NIL	NIL	NIL	NIL

## 7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

- The Institute is spread in and sprawling over approximately 447 acres. It expresses through refreshing shades revealing the environment and conditions truly designed to give the human spirit true satiety and comfort. Large plantations carried out at the Institute make the Institute a living beauty, a sign of endless and in exhaustible plenty. Live atmosphere enhances working environment bringing a softening, humanizing touch to the surroundings. Institute plays host to a number of migratory birds giving the glimpse of some of the rarest species of birds in the world. Splendor of the natural environment and beauty of the birds are the perfect setting for a spiritual and academic aesthete. Dotted with green parks, strolling areas, gymnasium, swimming pool, herbal nursery, a lake with a created home for doves, the Institute is a miniparadise extending a warm welcome and symbolizes the 'Modern Gurukul' of 21st Century. Various of plants are regularly being planted in the Institute area.
- Plant 5 trees before installation of each Air Conditioner (ACs).
- Institute observes No Motor Vehicle Day on every Friday.

Percentage of power requirement of the University met by the renewable energy sources NIL

# 7.1.3 Differently- abled (Divyangjan) friendliness

Provision of barrier free environment for persons with disabilities by providing ramps along with guide tiles in the various SLIET buildings has been provided in various civil modification works in the existing buildings of SLIET has been undertaken in this regard, such as in Mechanical Block, Science Block, central Library, Health Centre, Chemical Block, Computer Block, EIE& ECE Block, Administrative Block, Girls Hostel No. 1, 2 & 3, Guest House, Boys Hostel No. 1, 2, 3, 6, 7 & 10, Work Shop and Student Activates Centre.

In addition to above 2 no. ramps towards access to the 1<sup>st</sup> floor of building has also been provided for person with disabilities i.e 01 no. PWD ramps in between Chemical food Block and Science Block and another PWD Ramp for access to Electronic Block and Computer Block.

New PWD toilets including all PWD fitting has been constructed in different buildings (Chemicals & Food Block, Science Block and Mechanical Block).

Modifications of Bathrooms & Toilets with PWD fitting in various Academic in building and Hostels have been made for the convenience of persons with disability.

Following initiative has been undertaken by the Institute for the perseverance of ecosystem.

- 1. A open oxidation pond for the treatment of waste water.
- 2. Use of waste water for irrigation of forest area of Institute.
- 3. Use of polythene is banned in the Institute.
- 4. One day (Friday) is observed as vehicle free day in the Academic Area of the Institute.
- 5. Organization of seminars for providing cleaning awareness around the Institute and surrounding village area.
- 6. One day (Thursday) in a week is observations natural light day, wherein minimum utilization of electric appliances is ensured in the various working place of Institute.

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	04
Provision for lift	No	NIL
Ramp/ Rails	Yes	04
Braille Software/facilities	No	NIL
Rest Rooms	No	NIL
Scribes for examination	Yes	04
Special skill development for differently abled		
students	No	NIL
Any other similar facility	No	NIL

### 7.1.4 Inclusion and Situatedness

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	03	03	21.02.2019	Development activities under Unnat Bharat Abhiyan	03	18
2019	03	03	31.05.2019	Development activities under Unnat	03	18

				Bharat		
7.1.5 Human Values a	nd Professional F	thics		Abhiyan		
Code of conduct (han			haldars			
Title	Date of Publica			Follow up (maximui	m 100 words	each)
Student Guide	11.07.2018	11011		klet has been broug		
Student Guide	11.07.2018			ing newly admitted	-	
				ral and hostels in		
			contains	the informati	•	
				ration, hostel admir	•	ŭ
				ipline rules. Furthe	•	-
				available and th		
				to maintain these	•	
				are advised to		•
				before the normal a	-	
			carciany	before the norman	detivities of th	e motitute.
Internal Complaints	03.06.2019		The Wo	men's Cell of Sa	nt Longowal	Institute of
Committee			Engineer	ing & Technolog	gy (SLIET), Lo	ongowal was
			establish	ed in accordance	with the	directives of
			Honorab	e Supreme Court	of India to	ensure safety,
			security	and dignity of w	omen at wo	rkplace. It is
			establish	ed with an objec	ct to create	a congenial
			working	environment wh	nich is free	e of sexual
			harassme	ent or gender bas	sed discrimin	nation for all
			women	employees and s	tudents and	to heighten
			awarene	ss and sensitivity	to this im	portant issue
			amongst	all concerned.		
7.1.6 Activities condu	cted for promotio					
		_	ration	Duration (to		_
Activit	У	(fr	om)	-)	Number of	participants

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

Following initiative has been undertaken by the Institute for the perseverance of ecosystem.

11.07.2018

06.08.2018

27.07.2018

07.08.2018

- 1. A open oxidation pond for the treatment of waste water.
- 2. Use of waste water for irrigation of forest area of Institute.
- 3. Use of polythene is banned in the Institute.

Orientation Programme

Orientation Programme

- 4. One day (Friday) is observed as "NO MOTOR VEHICLE DAY" in the Academic Area of the Institute.
- 5. Organization of seminars for providing cleaning awareness around the Institute and surrounding village area.

235 students

620 students

6. Every Thursday is observations as "NATURAL LIGHT DAY", wherein minimum utilization of electric appliances is ensured in the various working places of the Institute.

#### 7.2 Best Practices

Describe at least two institutional best practices

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

- Institute Innovation Cell
- Tutor Guardian and Student Mentorship Scheme
- Competitive Examination Cell (CEC)

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

http://iic.sliet.ac.in/

http://sliet.ac.in/tutor-guardian-and-student-mentor-scheme/

## 7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust

Provide the weblink of the institution in not more than 500 words

Sant Longowal Institute of Engineering & Technology (SLIET) is an autonomous body having the status of Deemed-to-be-University since 2007, fully funded and established by the Government of India. It is controlled by SLIET Society, registered under Societies Registration Act, 1860. The Institute awards its own Certificates, Diplomas and Degrees including M.Tech., M.B.A., M.Sc. and Ph.D. Further, it is clarified that: (a) The courses run by SLIET are duly approved by AICTE / UGC. The educational programmes of this institute are non-conventional, innovative, practical oriented and contain all aspects of new education policy, Govt. of India. The Institute offers programmes at Integrated Certificate Diploma (ICD), Degree, Post-graduate (M.Tech., M.B.A. and M.Sc.) and Ph.D. levels in Engineering and Technology, Science, Humanities, Management. The Institute has spread over more than four hundred acres of land.

The main distinctive point of the Institute is that it offer flexible, modular, layered, multipoint entry/exit programmes in Engineering & Technology. The Institute offer higher level programmes (Ph.D.) after acquiring necessary competence at lower level programmes (Certificate level) of the Institute.

The Institute provides non-formal education and training to persons from unorganized sectors and school drops-out through its extension services, to enable them to acquire basic technical skills, so that they are successfully employed.

Admission to ICD (Integrated Certificate-Diploma) programme (3 year) through All India SLIET Entrance Test (SET) after Matric exam. • Provision of voluntarily exit after successfully completing 2 years (with requisite number of credits) of ICD Programme. • Provision of entry in 2nd year of ICD after ITI/Certificate with two years industrial experience. • Diploma is awarded to students who completes 3 years of ICD with the prescribed credits as per teaching scheme successfully. • 50% of the SLIET Diploma holders fulfilling the requisite criteria will be promoted to 2nd year of B.E. on the basis of All India SLIET Entrance Test (SET) conducted by SLIET, Longowal.

The Institute offers following Courses:

- i) Three Year Integrated Certificate -Diploma (ICD) Programme
- ii) Under Graduate Programme
  - a) B.E.( 4 Year)
  - b) B.E.(Lateral Entry)
- iii) Post Graduate Programmes
  - a) M. Tech.
  - b) M.B.A.
  - c) M.Sc.
- iv) Ph.D. Programmes

Some of the necessary facilities for its students are as under:

Hostels: SLIET is a residential campus with ten hostels for boys and four for girls, accommodating about 3400 students which include about 1000 girl students equipped with all the requirements. The Institute has Workshop

Central Library, Computing Facilities, Health Centre, Bank, Post Office, Telephone Exchange and Shopping Centre, Student Activity Centre, Training and Placement Cell, NSS, NCC, Industrial visits, educational tours, departmental societies, SPICMACAY chapter, technical & cultural festivals, night playing facilities, eating points and reading rooms during the extra hours, green parks, strolling areas, gymnasium, swimming pool, herbal nursery are available.

Equal Opportunities Cell: The equal opportunities cell has been established in the Institute to oversee the effective implementation of policies and programmes for deprived groups [SC's, ST's, OBC's (noncreamy layer, minorities)] as per Government of India guidelines in order to enhance their employability.

http://sliet.net.in/Default.html

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

- Subject-wise learning attainments and shall be the part of the course file
- To extend Central Computing facility and to make it available for students and staff for 24x7 with biometric entry.
- To implement total quality management (TQM) in laboratories,
- To strengthen and maintain documentation of the activities of Innovation Centre
- To strengthen mentoring and counselling, weekly one-hour slot on Wednesday, may be fixed in time table so that class counsellors can interact with their respective classes to extend counselling and mentoring.
- Strengthen the documentation related to student activities, department wise.
- Strengthen the provision for students and staff for behavioural counselling.

Name Prof. (Dr.) J.S. Dhillon

Signature of Coordinator, IQA(
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Name Prof. (Dr.) Shailendra Kumar Jain

Signature of the Chairperson, IQAC