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.* **2019-2020**

Part - A

Data of the Institution

(data may be captured from IIQA)

1	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	Yes	
	own campus		
*	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	Punjab	
*	Pin Code	148106	
2	Institutional status		

*	University:	State/Central/Deemed/	Deemed
---	-------------	-----------------------	--------

Private: (Tick appropriative)

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

* Location : Rural/Semi-urban/Urban Rural

* Financial Status: Centrally funded/ Centrally Funded

state funded/Private (please

specify)

* Name of the IQAC Co- Prof. (Dr.) J.S. Dhillon

ordinator/Director

Phone no. /Alternate phone no.
 Mobile +91 9779 828833
 IQAC e-mail address iqac@sliet.ac.in

Alternate Email address <u>jsdhillonp@yahoo.co.in</u>

3 Website address <u>www.sliet.ac.in</u>

Web-link of the AQAR: (Previous http://sliet.ac.in/wp-content/uploads/2020/02/agar-report-

Academic Year) <u>2018-19-portraite.pdf</u>

4 Whether Academic Calendar Yes

prepared during the year?

if yes, whether it is uploaded in the Yes

Institutional website

Weblink: http://academic.sliet.ac.in/files/2019/06/2019-20-Academic-

Calender-UG-PG-program-.pdf

5 Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	В	2.35	2012	10.03.2012 to 09.03.2017
2 nd	B+	2.58	2017	30.10.2017 to 29.10.2022

6 Date of Establishment of IQAC 16/02/2013

DD/MM/YYYY

7

Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture Item /Title of the quality initiative by IQAC Number of participants/ Date & duration beneficiaries STTP on "Material Characterization and 1st July 2019 to 14 Analytical Techniques for Research 5th July 2019 Applications" (SLIET, Longowal) (5 days) STTP on "PLC Drives and Industrial 2nd March 2020 to 20 Automation" 6th March 2020 (5 days) STC on Analytical Techniques in the realm of 26th June 2020 to Ω Molecules & Materials 30th June 2020 (5 days) 1st July 2019 to Materials Characterization & Analytical 5th July 2019 **Techniques for Research Applications** 50 (MCATRA- 2019) (5 days) 1st July 2019 to TEQIP- III Sponsored STTP on Materials Characterization and Analytical Techniques 5th July 2019 30 for Research Application (5 days) 5th October, 2019 to TEQIP- III sponsored 02-day workshop on 6th October, 2019 Low and High-Frequency Designs using 04 TaraNG:19.0 (2 days) 4th November, 2019 to Organized a TEQIP- III Sponsored on-week 8th November 2019 short term training Programme on Nano-46 Electronics & VLSI Circuits and Systems (5 days) TEQIP- III Sponsored STTP on Synthesis and 11th November 2019 to Characterization of Multifunctional 15th November 2019 35 Materials held at NIT Uttrakhand, Srinagar (5 days) Campus under twinning Programme 15th November 2019 to Faculty Development Programme under 17th November 2019 51 Universal Human Values (5 days) 9th December 2019 to 13th December 2019 3D Printing & Design 49 (5 days) 4th January 2020 to Residential Faculty Development 10th January 2020 Programme on Student Induction under 53 Universal Human Values (5 days) TEQIP- III Sponsored STTP on Advanced 29th February 2020 to Functional Materials, Characterization & 4th March 2020 27 Applications was organized at MNIT Jaipur (Satellite Campus of NIT Uttrakhand) under

twinning programme

(5 days)

Note: 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

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

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount		
SLIET Longowal	TEQIP-III	National Project Implementation Unit (NPIU), (World Bank Project) New Delhi	12.04.2018 -30.09.2020 (Letter no. AC/ TEQIP- III/MHRD dated 12.04.2018)	Rs.7.00 Crore		

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

Yes

*upload latest notification of formation

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

iqac-members/

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

Yes

website......

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

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

of-iqac-meetings/

Whether IQAC received funding 11 from any of the funding agency to support its activities during the

year?

No

If yes, mention the amount: Year:

- 12 Significant contributions made by IQAC during the current year (maximum five bullets)
 - To focus on outcome based education and NIRF ranking in SLIET, the Institute has initiated a new horizon (WAR ROOM CONCEPT) to strengthen various areas/activities in the Institute under eight pillars namely (1) Branding Perception (2) Outreach & Inclusivity (3) Research and Professional Practices (4) Graduation Outcome (5) Infrastructure Creation (6) Financial Parameters (7) Students Counselling and (8) Academic Excellence
 - The Institute has developed Central Computing Facility under TEQIP-III having 108 computers
 - The departments of the institute organized 21 conferences/seminars.
 - The Institute organized 35 training programmes for Students.
 - The Institute organized 11 workshop/seminars for faculty/staff of the Institute.
 - 123 students of the Institute are already placed through Campus placement in well reputed companies

and the placement through campus is in progress.

• Gate-2020 Training provided to 266 students during July, 2019 to December, 2019 under TEQIP-III.

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

and the outcome deficed by the end of the Academie year		
Plan of Action	Achievements/Outcomes	
Making provisions for No Due Certificate in the	Could not finalized due to Covid-19, but in process and	
ERP meant for the students, leaving the	likely to be finalized in the Academic year 2020-21	
Institute after completing their Degree		
Provision of Feedback Proforma using google	Implemented	
form		
Sending Office orders, circulars within the	Implemented	
Institute via email to save paper and		
environment		
Fee collection using online module	Could not finalized due to Covid-19, but in process and	
	likely to be finalized in the Academic year 2020-21	

14	Whether the AQAR was placed before statutory body? Name of the statutory body Date of meeting(s)	Yes SENATE 28.04.2021 (Item No. 31.4)	
15	Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to the functioning?	NO	
16	Whether institutional data submitted to AISHE: Yes/No	Yes	
	Submitted to Alshie. Tesylvo	Year: 2019-20 Date of Submission: 18.05.2020	
17	Does the Institution have Management Information System? Yes No	YES	
	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) Academics Accounts Section e) Store & Purchase Section	

Part-B

Criterion I – Curricular Aspects 1.1 Curriculum Design and Development 1.1.1 Programmes for which syllabus revision was carried out during the Academic year Programme Code Dates of revision Name of programme Programme Specialization Computer Science & Engineering GCS 08.07.2019 ΒE Electronics & Communication **GEC** 08.07.2019 ΒE Engineering Instrumentation & Control GIN 08.07.2019 ΒE Engineering **GEE** 08.07.2019 ΒE **Electrical Engineering GCT** 08.07.2019 ΒE **Chemical Engineering** GFT 08.07.2019 ΒE Food Technology GME Mechanical Engineering 08.07.2019 ΒE (Manufacturing Engg.) Mechanical Engineering **GWT** 08.07.2019 ΒE (Welding Technology) PG-MSE 08.07.2019 M. Tech. Manufacturing Systems PG-WLF 08.07.2019 M. Tech. Welding and Fabrication PG-FET 08.07.2019 M. Tech. Food Engineering & Technology PG-CSE 08.07.2019 M. Tech. Computer Science & Engineering PG-ICE 08.07.2019 M. Tech. Instrumentation and Control PG-ECE 08.07.2019 M. Tech. **Electronics and Communication** PG-CE 08.07.2019 M. Tech. Chemical Engineering PG-CHY 08.07.2019 M.Sc. Chemistry PG-MATH 08.07.2019 M.Sc. Mathematics PG-PHY 08.07.2019 M.Sc. **Physics**

1.1.2 Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year					
Programme with Code	Programme specializaiton	Date of Introduction	Course with Code	Date of Introduction	
BE (GCS)	Computer Science &	27.06.2018	Principles of Management	08.07.2019	

	Engineering		HSMC-501	
BE (GEC)	Electronics & Communication Engineering	27.06.2018	Principles of Management HSMC-501	08.07.2019
BE (GIN)	Instrumentation & Control Engineering	27.06.2018	Principles of Management HSMC-501	08.07.2019
BE (GEE)	Electrical Engineering	27.06.2018	Principles of Management HSMC-501	08.07.2019
BE (GCT)	Chemical Engineering	27.06.2018	Principles of Management HSMC-501	08.07.2019
BE (GFT)	Food Technology	27.06.2018	Principles of Management HSMC-501	08.07.2019
BE (GME)	Mechanical Engineering 3.(Manufacturing Engg.)	27.06.2018	Principles of Management HSMC-501	08.07.2019
BE (GWT)	Mechanical Engineering (Welding Technology)	27.06.2018	Principles of Management HSMC-501	08.07.2019

1.2 Academic Flexibility:

1.2.1 New programmes/courses introduced during the Academic year

Programme/Course	Date of introduction
BE - Extra Academic activity (Sports activities)	08.07.2019
BE - Extra Academic activity (Literary activities)	08.07.2019
BE - Extra Academic activity (Social activities)	08.07.2019

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 programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Science & Engineering	08.07.2019
BE	Electronics & Communication Engineering	08.07.2019
BE	Instrumentation & Control Engineering	08.07.2019
BE	Electrical Engineering	08.07.2019
BE	Chemical Engineering	08.07.2019
BE	Food Technology	08.07.2019
BE	Mechanical Engineering (Manufacturing Engg.)	08.07.2019
BE Mechanical Engineering (Welding Technology)		08.07.2019

1.3 Curriculum Enrichment:

- 1. Study schemes of UG and PG programs as per AICTE Model Curriculum 2018 applicable in SLIET, Longowal along with full syllabus/contents were finalized through the respective Board of studies.
- 2. Introduced credit for technical competency to enhance core competencies in the UG students.

3. Included fractional credit courses (Extra Academic activities) to give space to co-curricu	ular activities.
---	------------------

1.3.1 Value-added courses imparting transferable and life skills offered during the year

Value added courses	Date of introduction	Number of students enrolled
English Communication and Soft Skills	27.06.2018	204
Environmental Studies	27.06.2018	204
Research Methodology and IPR	27.06.2018	92
English for Research Paper Writing and professional communication	27.06.2018	92
Constitution of India	27.06.2018	91

1.3.2 Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
		

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	YES	YES	YES	YES

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

All the departments/concerned sections are obtaining feedback from all the stakeholders through google form thereafter, the data, received, is forwarded to Data Analytics Committee analyse the data related to feedback and put up its report to the Competent Authority for further improvement.

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
B.E. (Lateral Entry)	Computer Science & Engineering	85	Group A : 517	85
B.E. (Lateral Entry)	Electronics & Communication Engineering	47		47
B.E. (Lateral Entry)	Electrical Engineering	39		39
B.E. (Lateral Entry)	Instrumentation & Control	59		42

	Engineering			
B.E. (Lateral Entry)	Mechanical Engineering (Manufacturing Engineering)	49	Group A : 269	49
B.E. (Lateral Entry)	Mechanical Engineering (Welding Technology)	59	59	
B.E. (Lateral Entry)	Chemical Engineering	48	Group C : 180	48
B.E. (Lateral Entry)	Food Technology	64		61
B.E. (Direct Entry)	Chemical Engineering	29	Admission through JoSSA/ CSAB 2019	20
B.E. (Direct Entry)	Computer Science & Engineering	59		53
B.E. (Direct Entry)	Electronics & Communication Engineering	29		23
B.E. (Direct Entry)	Electrical Engineering	31		25
B.E. (Direct Entry)	Food Technology	29		13
B.E. (Direct Entry)	Instrumentation & Control Engineering	29		22
B.E. (Direct Entry)	Mechanical Engineering	74		62
M.Tech.	Chemical Engineering	13	06	0
M.Tech.	Computer Science & Engineering	20	15	09
M.Tech.	Electronics & Communication Engineering	20	07	03
M.Tech.	Food Engineering & Technology	14	53	19
M.Tech.	Instrumentation & Control Engineering	14	14	05
M.Tech.	Mechanical Engineering (Manufacturing Engineering)	22	16	06
M.Tech.	Mechanical Engineering (Welding Technology)	14	111	03
M.Sc.	Chemistry	25	10	22
M.Sc.	Physics	25	23	25
M.Sc.	Mathematics	25	21	23
M.B.A.	Master of Business Administration	38	23	07

2.2 Catering to Student Diversity

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

Year	Number of	Number of students	Number of full time	Number of full time	Number of
	students enrolled	enrolled in the	teachers available in	teachers available	teachers
	in the institution	institution (PG)	the institution	in the institution	teaching both
	(UG)		teaching only UG	teaching only PG	UG and PG
			courses	courses	courses
2019-20	1822	292	0	0	148

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 teachers	ICT tools and	Number of	Number of	E-resources and
teachers on	using ICT (LMS, e-	resources available	ICT enabled	smart	techniques used
roll	Resources)		classrooms	classrooms	
148	148	Desktop, laptops,	28	21	Google class room, smart
		LCD Projector,			classrooms, video lectures,
		Digital cameras,			lecture recording
		Printer,			software, NPTEL. E-books,
		Photocopier,			Animation videos, PPT, E-
		tablets, Pen Drive,			Journals, Databases and
		Microphones,			Open Access Resources,
		Social Media,			Anti Plagiarism software,
		Visualizer, Smart			Zoom, WhatsApp, D-Link,
		Screen, Multi			NDL, Online thesis &
		Media Projector,			Dissertations, Online video
		Smart class rooms,			lectures, Microsoft team,
		VCR, LCD, Plasma			Power point presentation
		TV, Overhead			(Ppt), NPTEL, international
		Projector,			e-resources, digital library,
					computer, MOOCS (Live &
					Archived), Skype

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

All the regular faculty of the institute are appointed as Mentor of a group of students including Diploma, Degree, PG and Ph.D. level students. The main purpose of this tutor-guardian-mentor scheme is to address the problems of the students related to academics, social, emotional, economic problems etc. and encourage them to participate in various academic and extracurricular events throughout the academic year. Students can discuss any kind of problems occurs during their study in SLIET campus with their respective mentors. One special slot has been fixed in central time of the institute for mentor mentee-based students monitoring system.

5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
Number of students enrolled in	Number of fulltime teachers	Mentor: Mentee Ratio			
the institution					
2114	148	14.28			

2.4 Teacher Profile and Quality 2.4.1 Number of full time teachers appointed during the year No. of sanctioned No. of filled positions Positions filled during Vacant positions No. of faculty with positions the current year Ph.D. 125 79 204 00 95 2.4.2 Honours and recognitions received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year) Year of Name of full time teachers receiving awards from Designation Name of the award, fellowship, received award state level, national level, international level from Government or recognized bodies 2019 Prof.Kaza Somasekhara Rao Award- 2019 of Dr. Dhiraj Sud, Professor, Department Professor Indian Council of Chemists for the Best Chemistry, SLIET, Longowal Women Scientist in Chemistry 2019 Research Excellence Award under Excellent Dr. Dhiraj Sud, Professor, Department Prof. Chemistry, SLIET, Longowal Author category by MT Research and **Educational Services (MTRES)** 2019 Dr. Surinder Singh, Professor, Department of Professor Cash awards of 22500/- for fetching Electronics and Communication Engineering, Research Project from External agency at SLIET, Longowal SLIET Longowal 2019 Dr. Manpreet Singh Manna, Associate Professor, Associate Recognition by UNESCO, Bangkok on 24-25 Professor Department of Electrical and Instrumentation Sep., 2019 Engineering, SLIET, Longowal 2019 Dr. Arvind Jayant, Professor, Department of Professor Selected as **Visiting Professor** under MHRD Mechanical Engineering, SLIET, Longowal (Mech. Scheme of STIF Secondment of Indian Engg.) faculty in foreign Institution of Eminence 2020 Associate By Government of India Dr. Manmohan Singh, Associate Professor, Professor Department of Electrical and Instrumentation Engineering, SLIET, Longowal and and Sh. J.P. Singh, Assistant Professor (Contract), department of Computer Science and Engineering, SLIET, Longowal 2020 Dr. D C Saxena, Professor, Department of Food Prof. Carl Hoseney Award-by AFST (India) Professor Engineering and Technology, SLIET, Longowal significant contribution to the development of Cereal Science and Technology 2.5 Evaluation Process and Reforms 2.5.1 Number of days from the date of semester-end/year- end examination till the declaration of results during the year Last date of the last Date of declaration of results of Programme Programme Semester/year Name Code semester-end/ yearsemester-end/year-end end examination examination

based

Students promoted

Exams, could not be

1st Year(2019 Batch)

Integrated

ICD

Certificate Diploma Program			held due to COVID-19	previous semesters performance. Results declared on 23.10.2020 & 24.10.2020.
riogiaiii		2 nd Year (2018 Batch)	Exams. could not be held due to COVID-19	Students promoted based on previous semesters performance. Results declared between 23.10.2020 to 02.11.2020.
		3 rd Year (2017 Batch) (6 th Semester)	30.07.2020 (Online)	26.08.2020
Bachelor of Engineering Program	UG – B.E.	1 st Year (2019 Batch)	Exams. could not be held due to COVID-19	Students promoted based on previous semesters performance. Results declared on 22.10.2020 & 23.10.2020
		2 nd Year (2018 Batch including LEET)	Exams. could not be held due to COVID-19	Students promoted based on previous semesters performance. Results declared on 23.10.2020 & 24.10.2020.
		3 rd Year (2017 Batch including LEET)	Exams. could not be held due to COVID-19	Students promoted based on previous semesters performance. Results declared on 26.10.2020 & 27.10.2020
		4 th Year (2016 Batch including LEET) (8 th Semester)	Online: - 1 st Chance (26.06.2020) - 2 nd Chance (31.07.2020)	- 17.07.2020 - 25.09.2020
Master of Science (Math,	PG-M.Sc.	1 st Year (2019 Batch)	Exams. could not be held due to COVID-19	Students promoted based on previous semesters performance. Results declared on 23.10.2020.
Physics & Chemistry)		2 nd Year (2018 Batch) (4 th Semester)	Online : - 1 st Chance (26.06.2020)	- 17.07.2020
			- 2 nd Chance (31.07.2020)	- 28.08.2020 (Maths) 01.09.2020 (Physics) 24.11.2020 (Chemistry)
Master of Business Admn.	МВА	1 st Year (2019 Batch)	Exams. could not be held due to COVID-19	Students promoted based on previous semesters performance. Results declared on 23.10.2020
		2 nd Year (2018 Batch) (4 th Semester)	Online : - 31.07.2020	29.10.2020
Master of Technology	M.Tech.	1 st Year (2019 Batch)	Exams. could not be held due to COVID-19	Students promoted based on previous semesters performance. Results declared on 23.10.2020.
		2 nd Year (2018 Batch) (4 th Semester)	4 th Semester is on "Thesis Work". Due to COVID-10, last date for submission of Thesis work has been extended to 30.06.2021.	Not applicable

2.5.2 Average	e percentage of Student	complair	nts/grievances about eva	aluation against total nu	ımber appeared in the
examinations	during the year : The ans	wer sheet	=	ents before submission of	
	de re-evaluation/ re-total mplaints or grievances al		Total number of studen	its anneared in the	Percentage
evaluation	implaints of grievances at	bout	examination	its appeared in the	rereentage
2.6 Student Po	erformance and Learning	Outcome	S		
_				es for all programs offere	d by the institution are
stated and dis	splayed in website of the	institution	(to provide the weblink)	www.sliet.ac.in	
http://chm.sli	et.ac.in				
http:// <u>mech.s</u>	liet.ac.in				
http://cen.slie	et.ac.in				
http://physics	s.sliet.ac.in				
http://fet.sliet	t.ac.in/				
http://maths.	sliet.ac.in				
http:// eie.slie	et.ac.in/				
http://ece.slie	t.ac.in/				
http:// cs.sliet	ac.in				
http:// http://	ct.sliet.ac.in/				
http://mh.slie	t.ac.in				
2.6.2 Pass per	centage of students				
Programme Code	Programme name		r of students appeared final year examination	Number of students passed in final Semester /year examination	Pass Percentage
UG – B.E.	Bachelor of Engineering Program		: ance = 430 ance = 85	- 430 - 85	- 100% - 100%
PG – M.Sc.	Master of Science (Math, Physics & Chemistry)		nnce = 07 students of opted only	- 07	- 100%
		2 nd Cha	nce = 11 (Physics) 15 (Maths) 18 (Chemistry)	11 (Physics) 15 (Maths) 16 (Chemistry) (Viva pending of two	- 100%

PG – MBA	Master of Business Admn.	12 (Online)	12	100 %
PG – M.Tech.	Master of Technology Program	4 th Semester is on "Thesis Work". Due to COVID-10, last date for submission of Thesis work has been extended to 30.06.20201		

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

The feedback of students is collected by the respective departments/sections and is analysed by the Data Analytics Committee.

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 teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
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 = 80 (JRF -33 & SRF = 47)

Name of Research fellowship	Duration of fellowship (in days)	Funding agency
Junior Research Fellowship (JRF)	1095	QIP, AICTE
Junior Research Fellowship (JRF)	1095	NDF, AICTE
Junior Research Fellowship (JRF)	730	CSIR
Senior Research Fellowship (SRF)	1095	CSIR
Junior Research Fellowship (JRF)	730	Industry Sponsored
Junior Research Fellowship (JRF)	730	UGC
Senior Research Fellowship (SRF)	1095	UGC
Junior Research Fellowship (JRF)	730	DST
Senior Research Fellowship (SRF)	1095	DST
Junior Research Fellowship (JRF)	730	SLIET, Longowal
Senior Research Fellowship (SRF)	1095	SLIET, Longowal
Junior Research Fellowship (JRF)	730	TEQIP through SLIET
Senior Research Fellowship (SRF)	1095	TEQIP through SLIET

2 1 Research funds canctioned	and received	from various agencies, industry, and	d other organicatio	nc
ature of the Project	Duration	Name of the	Total grant	Amount received
acare or the rioject	In days	funding Agency	sanctioned	during the year
Major projects	1095	CSIR	Rs. 28, 27,000/-	Rs. 11, 89,167/
Major projects	730	ASEAN- India Collaborative		
		R&D Scheme under ASEAN-		
		India S&T Development Fund		
		(AISTDF), SERB, DST, New		
		Delhi		
Major projects	730	AICTE	Rs. 11, 82, 500/-	
Major projects	730	AICTE	Rs. 11, 10, 000/-	
Major projects	730	GOI, Ministry of Science and		
		Technology, DST (International		
		Bilateral Cooperation Division)		
Major projects	1095	AICTE	Rs. 25,00,000/-	
Major projects	1095	AICTE	Rs. 16,00,000/-	
Major projects	1095	AICTE	Rs. 17,00,000/-	
Major projects	1825	GOI, DST, R&D Infrastructure	Rs. 61,00,000/-	
		Division		
Major projects	1095	AICTE	Rs. 25,00,000/-	22,50,000/-
Major projects	1095	DST, SERB, Collaborative		
		research project		
Major projects	1095	Ministry of Science and	Rs. 94,50,000/-	
		Technology, Department of		
		Biotechnology in Association		
		with PSCST		
Minor Projects	180	Federation of Indian	Rs. 4,00,000/-	Rs. 4,00,000/-
		Chambers of Commerce and		
	100	Industry (FICCI), New Delhi		
Minor Projects	180	Punjab State Council for	Rs. 1, 80, 000/-	Rs. 1, 80, 000/
		Science and Technology,		
		Chandigarh with the support		
		of Biotechnology Industry		
		Research Assistance Council		
	720	(BIRAC), DBT- GOI		
Interdisciplinary Projects	730	ASEAN- India Collaborative		
		R&D Scheme under ASEAN- India S&T Development Fund		
		(AISTDF), SERB, DST, New		
		Delhi		
Interdisciplinary Projects	1095	DST, SERB, Collaborative		
micraiscipinary riojects	1033	research project		
Interdisciplinary Projects	730	GOI, Ministry of Science and		
meralsolphilary respects	, 30	Technology, DST (International		
		Bilateral Cooperation Division)		
Project Sponsored by the	180	Sponsored by Institute from	Rs. 2, 10, 000/-	Rs. 2, 10, 000/
University		TEQIP- III funds		2, 25, 3307
Project Sponsored by the	180	Sponsored by Institute from	Rs. 2, 03, 000/-	
University		TEQIP- III funds	,, 555,	
Project Sponsored by the	180	Sponsored by Institute from	Rs. 1, 00, 000/-	
University		TEQIP- III funds		
Project Sponsored by the	180	Sponsored by Institute from	Rs. 1,00,000/-	
University		TEQIP- III funds	, ,,	
Project Sponsored by the	180	Sponsored by Institute from	Rs. 1,00,000/-	Rs. 1, 00, 000/
University		TEQIP- III funds		
tudents Research Project (other	180	Sponsored by Institute from	Rs. 40,800/	1

than compulsory by the University)		TEQIP- III funds		
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 44,600/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 22,000/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 20,000/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 8,950/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs.37,100/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 39, 064/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 49,810/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 40,500/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 49, 240/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 42,000/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 47, 800/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 33, 276/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 74, 250/	
Students Research Project (other than compulsory by the University)	180	Sponsored by Institute from TEQIP- III funds	Rs. 41, 500/	
International Project	730	ASEAN- India Collaborative R&D Scheme under ASEAN- India S&T Development Fund (AISTDF), SERB, DST, New Delhi	Rs. 20, 75, 696/-	Rs. 10, 17, 848/-
International Project	1095	DST, SERB, Collaborative research project	Rs. 20, 70, 628/-	6, 58, 914/-
International Project	730	GOI, Ministry of Science and Technology, DST (International Bilateral Cooperation Division)		
Total		,	Rs. 3, 71, 48, 386/-	Rs. 60, 05, 929/-

3.3 Innovation Ecosystem

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

		T =
Title of Workshop/Seminar	Name of the Dept.	Date(s)
"Overview of Tyre Technology" delivered by Sh. Ravi Shankar of Ralson India Ltd., Ludhiana	Mechanical Engineering	7 th February 2020
"Industrial Applications of Rapid Prototyping and Additive Manufacturing" was delivered by Er. A.P. Singh, GM, CTR, Ludhiana	Mechanical Engineering	13 th December 2019.
"Automation in Welding Technology" delivered by Er. Harpreet Singh Bhui, Director, Brahm Engineers, Mohali on	Mechanical Engineering	16th October 2019
"3-D printing and Design Technology" delivered by Er. Dakshina Ranjan, Vice President, Kangaroo Industries, Ludhiana	Mechanical Engineering	9 th December 2019.
Human Authentication	Prof. Klimis Ntalianis, University of West Attica, Athens, Greece	26-11-2019
Use of Machine Learning and Optimization to solve real life processes	Prof. Vijay Mago, Lakehead University, Canada	17-12-2019
KRBL Limited	Chemical Engineering	11-11-2019
Kuantum papers Ltd.	Chemical Engineering	06-11-2019
Entrepreneurship Awareness camp	Management and Humanities	13/02/2020 to 15/02/2020
Entrepreneurship Awareness camp	Management and Humanities	26/09/2019
Workshop on Entrepreneurship	Management and Humanities	02/08/2019 -03/08/2019
Workshop on Opportunities in Food Engineering Sector	Management and Humanities	07/11/2019

Workshop on Oppor Engineering Sector	tunities in Chemical	Mana	agement and Humanities		24/02/ 2020
Webinar on EDP Ajeo	et Yadav Co-founder	Mana	agement and Humanities		01/05/ 2020
3.3.2 Awards for Inn	ovation won by Institut	ion/Te	achers/Research scholars/Stu	dents during	the year
Title of the innovation	Name of the Awar	dee	Awarding Agency	Date of Aw	rard Category
Best Track Paper award	Mr. Ankesh Mittal PhD. Research Schola	ar	International Conference on Industrial Engineering and Operations Management, Dubai, UAE	March 10- 2020	Research paper Publication
SLIET Quality Publication Award (SQPA)	Mr. Jastej Singh, Ph.I Research Scholar (Re No. PME/1503)		Sant Longowal Institute of Engineering and Technology (SLIET), Longowal Punjab.	January 26, 2020	The award carries a Certificate of appreciation along with Cash prize of ₹5000/
Young Scientist Award	Mr. Jastej Singh, Ph. I Research Scholar (Re No. PME/1503)		Punjab Academy of Sciences, Patiala, Punjab, in Section-D (Engineering Sciences) for Year 2019 at 23 rd Punjab Science Congress held at SLIET Longowal,	February 7-2020.	-9, The award carries a Medal, a Certificate of merit and Cash prize of ₹7500/
Gradient Simulator Award (Advance Category) and Utility Demonstration Award (Advance Category	SLIET team "Green Rangers 2019		Society of Automotive Engineers Northern India section (SAE-NIS) held at Lovely Professional University (LPU),	01-05 th October, 20	Participated in 10 th season of "Efficycle 2019" – a student competition of Society of Automotive Engineers Northern India section (SAE-NIS) held at Lovely Professional University (LPU), Jalandhar during
'Pride of Punjab' award.	SLIET team 'Junkyard Warriors 2020'		BAJA SAE INDIA and Chitkara University, Chandigarh	5-9 th March 2020	n, Participated in 13 th season of BAJA SAE INDIA 2020 for display of design and development of an All- Terrain Vehicle (ATV), organized at Chitkara University, Chandigarh
Design Evaluation –	SLIET Team		Kari Motor Speedway,	February 1	0- Participated in 7 th Go

1st Disassemble Test – 2nd Acceleration – 4th Skid-pad – 3rd Endurance – 4th OVERALL – 3RD Team	'JUGGERNA	AUTS'	Coimbatore,	Tamil	14, 2020	(GKDC 20, at Speed	esign Challenge () Season, 2019- Kari Motor way, patore, Tamil
Best Captain Award 1st Prize in Smart India Hackathon- 2020	Ankit Kuma Amitoj Siną Naman Sin Siddharth Ridham Go Shrejal Sin	gh Ahuja, gh, Kumar, oyal,	Government	of India	June 2020		
Design of titanium nitride coated PCF- SPR sensor for liquid sensing applications	Veerpal Ka	ur	SLIET		15/08/2019	Resear Award	rch Excellence l
Design approach of solid-core photonic crystal fiber sensor with sensing ring for blood component detection	Veerpal Ka	ur	SLIET		15/08/2019	Resear Award	rch Excellence I
Neural engine for prediction of loan and real-time risk assessment 3.3.3 No. of Incubation	Rajan, and	, Karan Brahma, Nitesh Sawadia eated. start-ups ir	Synd Innovat		27-02-2020	Financ	cial Technology
	Name	Sponsor		Name of the Start-up	Nature of Star	t-up	Date of Commenceme nt
3.4 Research Publicat	tions and Av	vards					
3.4.1 Ph. Ds awarded	during the	year (Awarded in	Convocation h	eld on 07.03	.2020)		
Name of the Departn	nent				No. of Ph. Ds Awa	ırded	
Chemistry					03		
Physics					02		
Mathematics				03			
1							

Chemical Engine	eering			01		
Computer Scien	ce & Engineering			01		
Electrical Instrumentation & Control Engineering				06		
Electronics & Co	ommunication Engineering			02		
Food Engineerin	ng & Technology			06		
Mechanical Engi	ineering			08		
	TOTAL			35		
3.4.2 Research F	Publications in the Journals notifie	d on UG	C website during the year			
	Department		No. of Publication	Average Impact Factor if any		
National	FOOD EGG. & TECH.	4		1.65		
National	Management & Humanities	05		0		
International	Chemical Engg.	08		2.674		
International	Chemistry	23		2.09		
International	Mech. Engg.	72		0.977		
International	Physics	27		2.14		
International	FOOD EGG. & TECH.	24		4.98		
International	Mathematics	03		0		
International	ECE	08		2.05		
International	Computer Science and Engineering	15		1.71		
International	Management & Humanities	10		0		
Proceedings per	nd Chapters in edited Volumes Teacher during the year	/ Books		ational/International Conference		
Department			No. of publication			
Chemistry			04			
Chemical Engg.			08			
Mech. Engg.			09	09		
Physics			12			
FOOD EGG. & TE	ECH.		10			

EIE	02
ECE	02
Computer Science and Engineering	04

3.4.4 Patents published/awarded during the year

Patent Details	Patent status Published/Filed	Patent Number	Date of Award
Multi Point Tapper for Pressurizing and Holding Piezoelectric Element Chemistry	Filed	Design Patent Application Reference No. 325941-001 Dated 15/01/2020	Filed on: 15/01/2020
Cross- linked biopolymer composition and a method of preparation thereof	Filed	202011009169	3/3/2020
Regenerative Electromagnetic Shock Absorber	Submitted	4077/MUM/2015	30th June 2020

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

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutio nal affiliation as mentione d in the	Numbe r of citatio ns excludi ng self
CCC + C 1:CC	T: 11: 01/		2000	0.01	publicatio n	citatio ns
Effect of different elemental chlorine free bleaching sequences on pulp and effluent properties and their impact on index of global pollution	Tripathi, S.K., Bhardwaj, N.K., and Ghatak H.R.	Environmental Science and Pollution Research	2020	SCI	SLIET Longowal	0
Developments in ozone- based bleaching of pulps	Tripathi, S.K., Bhardwaj, N.K., and Ghatak H.R.	Ozone: Science and Engineering	2020	SCI	SLIET Longowal	2
Improvement in selectivity of ozone bleaching using DTPA as carbohydrate protector for wheat straw pulp	Tripathi, S.K., Bhardwaj, N.K., and Ghatak H.R.	Nordic Pulp and Paper Research Journal	2019	SCI	SLIET Longowal	1
Adsorptive finding on selective biomass for removal of Phenol from aqueous solutions	Jha, Pushpa	Resources, 8(4), 180; 2019	2019	SCI	SLIET Longowal	1
Recent developments on sustainable solvents for emulsion liquid membrane processes	Anil Kumar, Avinash Thakur, and Parmjit Singh Panesar	Journal of Cleaner Production	2019	SCI	SLIET Longowal	3
Statistical optimization of lactic acid extraction using green solvent and mixed extractants (TOA and TOMAC	Anil Kumar and Avinash Thakur	Chemical Engineering Research Bulletin	2019	SCI	SLIET Longowal	0
Lactic acid and its separation and	Anil Kumar, Avinash Thakur,	in Environmental Science and Bio/ Technology	2019	SCI	SLIET Longowal	6

purification techniques: A Review	and Parmjit Singh Panesar					
Reactive Extraction of Lactic Acid using Environmentally Benign Green Solvents and Synergistic Mixture of Extractants	Anil Kumar and Avinash Thakur	Scientia Iranica, 26(6):3456- 3467	2019	SCI	SLIET Longowal	27
Fabrication of calcium hydroxyapatite incorporated polyurethane-graphene oxide nanocomposite porous scaffolds from poly (ethylene terephthalate) waste: A green route toward bone tissue engineering	Amandeep Singh; Sovan Lal Banerjee; Vandana Dhiman; Sanjay Kumar Bhadada; Priyatosh Sarkar; Moumita Khamrai; Kamlesh Kumari; Patit Paban Kundu,	Elsevier Scopus	2020	SCI	SLIET Longowal	2
An unconstrained and effective approach of script identification for online bilingual handwritten text	Gurpreet Singh, Manoj Kumar Sachan	National Academy Science Letters	January 2020	0	SLIET Longowal	0
SentiVerb system: classification of social media text using sentiment analysis	Shailend ra Kumar Singh, Manoj Kumar Sachan	Multimedia Tools & Applications	Novemb er 2019	4	SLIET Longowal	3
Simultaneous feature weighting and parameter determination of neural networks using ant lion optimization for the classification of breast cancer	Dalwinder Singh, Birmohan Singh, Manpreet Kaur	Biocybernetics and Biomedical Engineering	January- March 2020	1	SLIET Longowal	1
Flexible fault tolerance in cloud through replicated cooperative resource group	Moin Hasan, Major Singh Goraya	Computer Communications	Septemb er 2019	2	SLIET Longowal	2
A Survey and Taxonomy on Energy Management Schemes in Wireless Sensor Networks	Jaspreet Singh, Ranjit Kaur, Damanpreet Singh	Journal of Systems Architecture	May 2020	2	SLIET Longowal	2
Satisfaction aware QoSbased bidirectional service mapping in cloud environment	Neeraj Yadav, Major Singh Goraya, Damanpreet Singh	Clusture Computing	February 2020	2	SLIET Longowal	2
An energy efficient scalable clustering protocol for dynamic wireless sensor networks	Harmanpreet Singh, Damanpr eet Singh	Wireless Personal Communications	August 2019	0	SLIET Longowal	0
An energy-efficient cloud system with novel dynamic resource allocation methods	Chao- Tung Yang, Shuo- Tsung Chen, Jung- Chun Liu, Yu- Wei Chan,	The Journal of Supercomputing	August 2019	2	SLIET Longowal	2

	1	_	_	,		
	Chien- Chih					
	Chen, Vinod					
	Kumar					
	Verma					
Real-time inclusive	Kuldeep	Journal of the Brazilian Society	2020	0	SLIET	0
investigations for the	Verma,	Of Mechanical Sciences and			Longowal	
selection of servo	R.M.	Engineering				
drive system of CNC	Belokar,					
machining centers	Vinod					
	Kumar					
	Verma,					
	Klimis					
	Ntalianis					
Computer aided face	Manmind	Wireless Personal	Decemb	0	SLIET	0
liveness detection	er Singh,	Communications	er 2019		Longowal	
with facial	Ajat					
thermography	Shatru					
	Arora					
GRT: Gurmukhi to	Manoj	International Journal of	July	0	SLIET	0
Roman	Kumar	Innovative technology and	2019		Longowal	
transliteration	Sachan,	Exploring Engineering				
system using	Shailend					
character mapping	ra Kumar					
and handcrafted	Singh					
rules				_	01157	
Implementation of a	Chao-Tung	Journal of Internet Services	Septemb	0	SLIET	0
software-defined	Yang, Shuo-	And Information Security	er 2019		Longowal	
storage service with	Tsung Chen,					
heterogeneous	Wei-Hsiang					
storage technologies	Lien and Vinod					
	Kumar					
	Verma					
A Ranking Based	Neeraj,	International Journal of	August	2	SLIET	1
Model for Selecting	Major	Innovative Technology and	2019		Longowal	1
Optimum Cloud	Singh	Exploring Engineering	2019		2011,60 1141	
Geographical	Goraya,	Exploring Engineering				
Region	and					
incaron in the second in the s	Damanpr					
	eet					
	Singh					
VM Selection and	Neha Garg,	Internatio nal Journal of Recent	July	0	SLIET	0
Allocation Policy to	Damanpreet	Technolo gy and	2019		Longowal	
Optimize VM Migration in	Singh, Major	Engineer ing				
Cloud Environment	Singh Goraya					
A review on retinal blood	Aastha, Rahul	Internatio nal Journal of	Septemb	0	SLIET	0
vessel segmentation	Gautam	Scientific & Technolo gy	er 2019		Longowal	
methodologies		Researc				
		h				
Tailoring of	Anupma	Journal of Electronic Materials	2020	WOS	SLIET	02
Electromagnetic	Marwaha				Longowal	
Absorption in Substituted	,Harsimrat Kaur,					
Hexaferrites from 8.2 GHz	,Charanjeet					
to 12.4 GHz	Singh , Sukhleen					
	Bindra Narang,					
	Rajshree					
	Jotania,Yang Bai,					
	Sanjay R. Mishra,					

	Dharmendra Singh, A.S.B. Sombra, Madhav Ghimire, And Preksha Dhruv					
Optimized null steering in compact bowtie antenna array using simulation driven Taguchi method	Anupma Marwaha , Baljinder Kaur	Journal of Metrology and Measurement Systems	2020	WOS	SLIET Longowal	NIL
Modelling and simulation of vertical fin style aluminum heat sink for controlled thermal compensation in absorber loaded antenna array	Surekha Rani, Anupma Marwaha, Sanja y Marwaha	Journal of communication technology and electronics, Springer	2020	WOS	SLIET Longowal	NIL
Nanocomposite graphene based tunable absorber for combating electromagnetic pollution	Surekha Rani, Anupma Marwaha, Sanja y Marwaha	Current Nanoscience, Bentham Science Publisher	2020	WOS	SLIET Longowal	NIL
Graphene based Multiband Frequency Antipodal Vivaldi Nanoantenna for UWB Applications	Gaurav Bansal, Anupma Marwaha, Amanpreet Singh, Rajni Bala, Sanjay Marwaha	Journal of Computational Electronics	2020	WOS	SLIET Longowal	NIL
A triband slotted bow-tie wideband THz antenna design using graphene for wireless applications	Gaurav Bansal, Anupma Marwaha , Amanpreet Singh, Rajni Bala, Sanjay Marwaha	Optik	2019	WOS	SLIET Longowal	6
Investigation of structural, hysteresis and electromagnetic parameters for microwave absorption application in doped Ba—Sr hexagonal ferrites at X-band	Harsimrat Kaurab, AnupmaMarwah aa , CharanjeetSingh, Sukhleen Bindra Narang, Rajshree Jotania, Silvia Jacobo, A.S.B.Sombra, S.V.Trukhanov, Preksha Dhruv	Journal of Alloys and Compounds	2019	WOS	SLIET Longowal	9
Synthesis and Validation of a Cu Meta-Based Wideband Microwave Absorber on an Antenna Array	Surekha Rani, Anupma Marwaha, Sanjay Marwaha, Sukhleen Bindra, Murthy Chavali & P. Narasimha Reddy	Journal of Electronic Materials	2019	WOS	SLIET Longowal	NIL
Design of titanium nitride coated PCF-SPR sensor for liquid sensing applications	Veerpal Kaur and Surinder Singh	Optical Fiber Technology	2019	WOS	SLIET Longowal	24

Design approach of solid-	Veerpal Kaur	Journal of Nanophotonic	2019	WOS	SLIET	04
core photonic crystal fiber sensor with sensing ring for blood component detection	and Surinder Singh, ""	354mai oi Nanophotome	2013	.,,,,,	Longowal	
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	Elena Anashkina, Vitaly Dorofeev, S.V. Muravyev, Sergei Motorin, Aleksei Vyacheslavovich Andrianov, Arseny A Sorokin, Maksim Koptev, Surinder Singh, and Arkady Kim	Quantum Electronics	2019	WOS	SLIET Longowal	04
Design of XPM based all optical contention detection circuit at 120 Gbps"	Dilbag Singh, Surinder Singh, Vishal Sharma, Sukhbir Singh and Quang Minh NGO,	Optical and Quantum	2019	WOS	SLIET Longowal	NIL
Design of all optical contention detection circuit based on HNLF at the data rate of 120 Gbps	Surinder Singh, Dilbag Singh, Vishal Sharma, Sukhbir Singh and Quang Minh NGO	Optical Fiber Technology	2019	WOS	SLIET Longowal	NIL
340-Gb/s PolSK-DP- DQPSK optical orthogonal modulation format with coherent direct detection foe high capacity WDM optical network"	Sukhbir Singh, Surinder Singh, Quang Minh NGO and Amin Malekmohamma di,	Optical Fiber Technology	2019	WOS	SLIET Longowal	02
Reconstruction of optical pulse intensity and phase based on SPM spectra measurements in microstructured tellurite fiber in telecommunication range.	E. A. Anashkina, Maxim Koptev, Alexey Andrianov, Vitaly V. Dorofeev, Surinder Singh, Lovkesh Bhatia, Gerd Leuchs, and Arkady Kim	Journal of Lightwave Technology	2019	WOS	SLIET Longowal	06
Design and analysis of CNTFET based 10T SRAM for high performance at nanoscale	M Kumar, JS Ubhi	International Journal of Circuit Theory and Application	2019	WOS	SLIET Longowal	02
Low leakage zero ground bounce noise nanoscale full adder using source biasing technique	Candy Goyal, Jagpal Singh Ubhi, and Balwinder Raj,	Journal of nanoelectronics & optoelectronics	2019	WOS	SLIET Longowal	NIL
A low leakage TG-CNTFET—based inexact full adder for low power image processing applications.	Goyal C, Ubhi JS, Raj B	International journal of circuit theory and applications	2019	Scopus	SLIET Longowal	01

A survey on Oos	Kaur, T. and	Wireless Notworks	2020	WOS	SLIET	08
A survey on QoS mechanisms in WSN for computational intelligence based routing protocol	Kaur, I. and Kumar, D.	Wireless Networks	2020	WOS	Longowal	08
FPS-MAC: Fuzzy priority scheduling-based MAC protocol for intelligent monitoring systems	Kaur, T. and Kumar, D.	International Journal of Communication Systems	2020	WOS	SLIET Longowal	NIL
Noninvasive Temperature Measuring and Early Fault Detecting System for Manufacturing Industry	Kumar, D., Suman, K.G.	Mapan - Journal of Metrology Society of India	2019	WOS	SLIET Longowal	NIL
Performance enhancement of traffic information gathering (PEnTInG) algorithm for vehicular ad-hoc networks	Kumar, R., Kumar, D., Kumar, D.	International Journal of Communication Systems	2019	WOS	SLIET Longowal	NIL
ETPS-MAC: Energy Traffic Priority Scheduling-based QoS-aware MAC protocol for hierarchical WSNs	Kaur, T., Kumar, D.	International Journal of Electronics	2019	WOS	SLIET Longowal	01
Computational intelligence-based energy efficient routing protocols with QoS assurance: A survey	Kaur, T. and Kumar, D.	International Journal of Wireless and Mobile Computing	2019	WOS	SLIET Longowal	05
QoS mechanisms for MAC protocols in wireless sensor networks: A survey	Kaur, T. and Kumar, D.	IET Communications	2019	WOS	SLIET Longowal	03
Hybrid intelligence based routing protocols in wireless sensor networks: A survey	Kaur, T. and Kumar, D.	International Journal of Sensors, Wireless Communications and Control	2019	WOS	SLIET Longowal	01
On the Design of a Novel Fractal Antenna for Spectrum Sensing in Cognitive Radio	Monika Aggarwal and Amar Partap Singh Pharwaha	Applied Computational Electromagnetics Society Journal (ACES)	2019	WOS	SLIET Longowal	NIL
On the development of a modified Triangular patch antenna array for 4.9 GHz Public Safety WLAN	Gurmeet Singh, AP Singh	Advanced Electromagnetics	2019	Scopus Indexe d	SLIET Longowal	1
On the Design of 2×2 MIMO Fractal Antenna Array for C band applications	Gurmeet Singh, A.P. Singh	Jounal (International Journal of Innovative Technology and Exploring Engineering)	2019	Scopus	SLIET Longowal	NIL
Design of micro-machined modified Sierpinski gasket fractal antenna for satellite communications	Ashish Kumar, Amar Partap Singh	International Journal of RF and Microwave Computer-Aided Engineering	2019	WOS	SLIET Longowal	4
Detection of Foreign Materials in Wheat Kernels using Regional Texture Descriptors	N. Julka and A. P. Singh	International Journal of Recent Technology and Engineering	2019	Scopus	SLIET Longowal	NIL

Machine vision based detection of foreign material in wheat Kernels using shape and size	N. Julka and A. P. Singh	International Journal of Advanced Science and Technology	2019	Scopus	SLIET Longowal	NIL
descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors	N. Julka and A. P. Singh	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2020	Scopus	SLIET Longowal	NIL
Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications	Ashwini Kumar, Amar Partap Singh Pharwaha	IETE Journal of Research	2020	WOS	SLIET Longowal	NIL
Product Strategies by Small Retailers in Punjab,	Pankaj Kumar, Sanjeev Bansal, Mahesh Arora & Kirna Rani	International Journal of Scientific & Technology Research	2019	0	SLIET Longowal	0
Creating Employment in some Indian Industries by reducing the working shift timing	Anil Kumar, Renu, Sanjeev Bansal	IOP Conference Series: Materials Science and Engineering	2020	0	SLIET Longowal	0
influence of Social Media on consumer purchase intention	Renu, Sanjeev Bansal, Vandana Gupta	International Journal of Scientific & Technology Research	2020	0	SLIET Longowal	0
Marketing, Mobile and future of Mobile Advertisement: Life Changing through Mobile	Bharti, Sanjeev Kumar Garg & Mandeep Ghai	Psychosocial: International Journal of Psychosocial Rehabilitation	2019	0	SLIET Longowal	0
Autobiographical Elements And Construction of Self In Plays of Mahesh Dattani,	Monika Kapil and Mahesh Kumar Arora	Think India Journal	2019	0	SLIET Longowal	0
Mahesh Dattani's Final Solutions: A Peep into the Mannerism of Men and Women, and Their Diasporic Identity,	Monika Kapil and Mahesh Kumar Arora	, Alochana Chakra Journal	2020	0	SLIET Longowal	0
Role of Industry-Institute Interaction To Promote Education And Entrepreneurship	Kirna Rani, Sanjeev Bansal, Pankaj Kumar	Think India Journal	2019	0	SLIET Longowal	0
A Study of Financial Challenges Faced By Small Entrepreneurs in India	Kirna Rani, Sanjeev Bansal, Pankaj Kumar	Our Heritage Journal	2019	0	SLIET Longowal	0
Impact of Training Programs on the Performance of Employees of Banking Sector: A Review	Manuja Garg, Sanjeev Bansal	Our Heritage Journal	2019	0	SLIET Longowal	0
Goods and Service tax in India-Issues and Challenges	Seema Jain, Pawan Kumar Dhiman	Journal of Information and Computational Science (China) Zhongshan Daxue University	2019	0	SLIET Longowal	0
Public Transport System-A Boon to National Development	Pawan Kumar Dhiman, Seema Jain	Journal of Gujarat Research Society	2019	0	SLIET Longowal	0
A Study of Consumer Behaviour on Selecting	Sanjeev Kumar Garg and	International Journal of 360 Degree Management Review	2019	0	SLIET Longowal	0

and Switching Telecom	Gurpreet					
Services in Patiala City	Sandhu				1	
Advertisement and its	Bharti, Garg,	Studies in Indian Place Names	2020	0	SLIET .	0
Influence on Consumer	Sanjeev Kumar				Longowal	
Behaviour: An analysis	and Mandeep					
reference to FMCG	Ghai					
products						
Factors Affecting	Pardeep Kumar	Alochana Chakra Journal	2019	0	SLIET	0
Consumer Purchase	Jain				Longowal	
Intention for Organic						
Food : A Review						
A conglomerated ion-	Mohit Kumar	Applied Soft Computing	2019	3	SLIET	2
motion and crisscross	and J.S. Dhillon	Journal, vol. 83, 2019, 105641,			Longowal	
search optimizer for		ISSN: 1568-4946				
electric power load						
dispatch						
Profit based unit	Jatinder Singh	Applied Soft Computing	2019	6	SLIET	5
commitment using	Dhaliwal, J.S.	Journal, vol. 81, 2019, 105502,			Longowal	<u> </u>
memetic binary	Dhillon	ISSN: 1568-4946				
differential evolution		.55.11. 15.65 15.16				
algorithm						
Multi-objective combined	Himanshu	Energy, Vol. 172, 2019, pp.794-	2019	17	SLIET	14
heat and power unit	Anand, Nitin	807, ISSN: 0360-5442, IF 4.968	7019	1/	Longowal	14
	· ·	007, ISSIN. USOU-S44Z, IF 4.968			Longowal	
commitment using	Narang and J.S.					
particle swarm	Dhillon					
optimization	D.I. 1 27 1		0010		CLIET	
Ameliorated grey wolf	Diljinder Singh	Energy, Vol 169, 2019, pp. 398-	2019	31	SLIET	24
optimization for economic	and J.S. Dhillon	419, ISSN: 0360-5442, IF 4.968			Longowal	
load dispatch						
Design and Analysis of a	N Prasad, S Jain ,	IETE Journal of Research, 1-14,	2019	2	SLIET	1
New Improved Force	S Gupta	2019	2013		Longowal	-
Linear Switched	3 Gupta	2019				
Reluctance Motor for						
Transit Application	101:	NAA DANI 4 0 2040	2010	4	CLIET	
Measurement and	N Prasad, S Jain ,	MAPAN, 1-9, 2019	2019	1	SLIET Longowal	0
Optimization of	S Gupta				Longowai	
Performance Parameters						
of Linear Switched						
Reluctance Motor Using						
Finite Element Method						
Electrical Components of	N Prasad, S Jain ,	Urban Rail Transit, 1-13, 2019	2019	5	SLIET	4
		1			Longowal	
	S Gupta			ı		1
Emerging Trends	·					
Emerging Trends SEIG-based renewable	K Tandekar, A	international Transactions on	2019	3	SLIET	2
Emerging Trends SEIG-based renewable power generation and	K Tandekar, A Ojha, S Das, P	international Transactions on Electrical Energy Systems 29	2019	3	SLIET Longowal	2
Emerging Trends SEIG-based renewable power generation and	K Tandekar, A		2019	3		2
Emerging Trends SEIG-based renewable power generation and compensation in MVDC	K Tandekar, A Ojha, S Das, P	Electrical Energy Systems 29	2019	3		2
Emerging Trends SEIG-based renewable power generation and compensation in MVDC ship power system	K Tandekar, A Ojha, S Das, P	Electrical Energy Systems 29	2019	3		2
Emerging Trends SEIG-based renewable power generation and compensation in MVDC ship power system Five-Level Cascaded H-	K Tandekar, A Ojha, S Das, P Swarnkar, S Jain	Electrical Energy Systems 29 (4), e2785, 2019			Longowal	
Maglev Systems: Emerging Trends SEIG-based renewable power generation and compensation in MVDC ship power system Five-Level Cascaded H- Bridge MLC-Based Shunt Active Power Filter for	K Tandekar, A Ojha, S Das, P Swarnkar, S Jain J Tandekar, A	Electrical Energy Systems 29 (4), e2785, 2019 Journal of Circuits, Systems and			Longowal	
Emerging Trends SEIG-based renewable power generation and compensation in MVDC ship power system Five-Level Cascaded H- Bridge MLC-Based Shunt Active Power Filter for	K Tandekar, A Ojha, S Das, P Swarnkar, S Jain J Tandekar, A	Electrical Energy Systems 29 (4), e2785, 2019 Journal of Circuits, Systems and Computers 28 (02), 1950035,			Longowal	
Emerging Trends SEIG-based renewable power generation and compensation in MVDC ship power system Five-Level Cascaded H- Bridge MLC-Based Shunt Active Power Filter for Active Harmonics	K Tandekar, A Ojha, S Das, P Swarnkar, S Jain J Tandekar, A	Electrical Energy Systems 29 (4), e2785, 2019 Journal of Circuits, Systems and Computers 28 (02), 1950035,			Longowal	
Emerging Trends SEIG-based renewable power generation and compensation in MVDC ship power system Five-Level Cascaded H- Bridge MLC-Based Shunt Active Power Filter for Active Harmonics Mitigation in Distributed	K Tandekar, A Ojha, S Das, P Swarnkar, S Jain J Tandekar, A	Electrical Energy Systems 29 (4), e2785, 2019 Journal of Circuits, Systems and Computers 28 (02), 1950035,			Longowal	
Emerging Trends SEIG-based renewable power generation and compensation in MVDC ship power system Five-Level Cascaded H- Bridge MLC-Based Shunt Active Power Filter for Active Harmonics Mitigation in Distributed Network	K Tandekar, A Ojha, S Das, P Swarnkar, S Jain J Tandekar, A Ojha, S Jain	Electrical Energy Systems 29 (4), e2785, 2019 Journal of Circuits, Systems and Computers 28 (02), 1950035, 2019	2019	3	SLIET Longowal	2
Emerging Trends SEIG-based renewable power generation and compensation in MVDC ship power system Five-Level Cascaded H- Bridge MLC-Based Shunt Active Power Filter for Active Harmonics Mitigation in Distributed	K Tandekar, A Ojha, S Das, P Swarnkar, S Jain J Tandekar, A	Electrical Energy Systems 29 (4), e2785, 2019 Journal of Circuits, Systems and Computers 28 (02), 1950035,			Longowal	

review and future						
directions Recognition of Underlying Causes of Power Quality Disturbances Using Stockwell Transform	Rajat Kumar, Raj Kumar, Sanjay Marwaha , Bhim Singh	IEEE Transactions on Instrumentation & Measurement, pp. 1-10, 2019	2019	4	SLIET Longowal	2
A triband slotted bow-tie wideband THz antenna design using graphene for wireless applications	Bansal, G., Marwaha, A., Singh, A., Bala, R., Marwaha, S .	Optik, 2019	2019	6	SLIET Longowal	5
Synthesis and Validation of a Cu Meta-Based Wideband Microwave Absorber on an Antenna Array	Rani, S., Marwah a, A., Marwaha, S.,Chavali, M., Reddy, P.N.	Journal of Electronic Materials, 2019	2019	1	SLIET Longowal	0
Investigation of Influence of Rotor Geometry on Cogging Torque in Combined Axial Flux Permanent Magnet Synchronous Motor	Gurmeet Singh, Sanjay Marwaha, Ajat Shatru	International Journal of Engineering and Technology (UAE), ISSN: 2227-524X, 2019, Scopus Indexed	2019	1	SLIET Longowal	0
Comprehensive Controller Implementation for Wind- PV-Diesel based Standalone Microgrid	M. Rezkallah, Sanjee v Singh, A. Chandra, M. Saad, B. Singh, M. Tremblay and H. Geng	IEEE Transactions on Industry Applications, vol. 55, no. 5, pp. 5416-5428, SeptOct. 2019	2019	4	SLIET Longowal	3
Impact of Harmonics on Power Transformer Losses and Capacity Using Open DSS	J. Singh Maan, S. Singh and A. Singh	International Journal of Emerging Electric Power Systems, vol. 20, no. 4, pp. August 2019	2019	1	SLIET Longowal	0
Distribution transformer failure modes, effects and criticality analysis (FMECA)	Jaspreet Singh, Sanjeev Singh and Amanpreet Singh	Engineering Failure Analysis, vol.99, pp.180-191, May 2019.	2019	10	SLIET Longowal	9
Microgrid: Configurations, Control and Applications	M. Rezkallah, Ambrish Chandra, Bhim Singh and Sanjeev Singh	IEEE Trans. Smart Grid, vol. 10, no. 2, pp. 1290-1302, March 2019	2019	7	SLIET Longowal	6
Assessment of Energy— Population—Urbanization Nexus with Changing Energy Industry Scenario in India	Avtar, Ram and Tripathi, Saurabh and Aggarwal, Ashwani Kumar	Land, volume 8, number 8, pages 124-128, 2019	2019	7	SLIET Longowal	2
Exploring Renewable Energy Resources Using Remote Sensing and GIS—A Review	Avtar, Ram and Sahu, Netrananda and Aggarwal, Ashwani Kumar and	Resources, volume 8, number 3, pages 149-155, 2019	2019	11	SLIET Longowal	10

Population—Urbanization—	Chakraborty, Shamik and Kharrazi, Ali and Yunus, Ali P and Dou, Jie and Kurniawan, Tonni Agustiono Avtar, Ram and	Resources, volume 8,	2019	17	SLIET	16
Energy Nexus: A Review	Tripathi, Saurabh and Aggarwal, Ashwani Kumar and Kumar, Panka	number 3, pages -136-142, 2019			Longowal	10
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 and Biological Engineering and Computing,ISSN: 0140- 0118,57(6): 1323-1339, 2019	2019	3	SLIET Longowal	2
Modelling of PAFC Based Scattering Monitoring System for the Characterization of the Therapeutic Micro- Bubbles	hor K. Bhardwaj, Surita Maini	Journal of Biomedical Photonics & Engineering, DOI 10.18287/JBPE19.05.030303, 2019	2019	1	SLIET Longowal	0
Fusion and Enhancement Techniques for Processing of Multispectral Images, Unmanned Aerial Vehicle: Applications in Agriculture and Environment	Aggarwal, Ashwani Kumar	Springer, 159–175, 2020	2020	1	SLIET Longowal	0
PLS-Based Multivariate Statistical Approach for Soft Sensor Development in WWTP	Barasha Mali, S. H. Laskar	Control Instrumentation Systems. Springer, Singapore, 2020. 123-131	2020	0	SLIET Longowal	0
Characterization and Measurement of Nanostructured Copper based Electromagnetic Wave Absorber	Surekha Rani, Anupma Marwaha, Sanja y Marwaha, Sukhleen Bindra, Murthy Chavali & P. Narasimha Reddy	J. Electromagnetics, Taylor and Francis, Vol. 41, 2020, DOI: 10.1080/02726343.2020.1780 375, [SCI indexed; IF:0.6].	2020	1	SLIET Longowal	0
Modelling and simulation of vertical fin style aluminium heat sink for controlled thermal compensation in absorber loaded antenna array, Journal of Communication Technology and Electronics	Surekha Rani, Anupma Marwaha, Sanja y Marwaha	Springer, Vol. 11, 2020. [SCI indexed; IF:0.5].	2020	2	SLIET Longowal	1
Nanocomposite graphene	Surekha Rani,	Current Nanoscience, Bentham	2020	2	SLIET	1

based tunable absorber for combating electromagnetic pollution	Anupma Marwaha, Sanja y Marwaha	Science Publisher, Vol. 16(1), pp. 1-8, 2020			Longowal	
Graphene based Multiband Frequency Antipodal Vivaldi Nanoantenna for UWB Applications	Gaurav Bansal, A. Marwaha, Amanpreet Singh, Rajni Bala,S.Marwaha	Journal of Computational Electronics, February 2020, pp. 1-10	2020	2	SLIET Longowal	1
On a reduced cost derivative-free higher- order numerical algorithm for nonlinear systems	JR Sharma, D Kumar	Computational and Applied Mathematics	2020	0	SLIET Longowal	0
On derivative free multiple-root finders with optimal fourth order convergence	JR Sharma, S Kumar, L Jäntschi	Mathematics	2020	0	SLIET Longowal	0
An optimal fourth order derivative-free numerical algorithm for multiple roots	S Kumar, D Kumar, JR Sharma, C Cesarano, P Agarwal, YM Chu	Symmetry	2020	2	SLIET Longowal	2
On the local convergence and complex geometry of eighth order iteration function	IK Argyros, JR Sharma, S Kumar	Annales Univ. Sci. Budapest	2019	0	SLIET Longowal	0
Optimal one-point iterative function free from derivatives for multiple roots	D Kumar, JR Sharma, IK Argyros	Mathematics	2020	0	SLIET Longowal	0
Local convergence of an efficient multipoint iterative method in Banach space	JR Sharma, S Kumar, IK Argyros	Algorithms	2020	0	SLIET Longowal	0
Local convergence and attraction basins of higher order, Jarratt-like iterations	JR Sharma, D Kumar, IK Argyros	Mathematics	2019	0	SLIET Longowal	0
On a class of optimal fourth order multiple root solvers without using derivatives	JR Sharma, S Kumar, L Jäntschi	Symmetry	2019	0	SLIET Longowal	0
Convergence analysis and complex geometry of an efficient derivative-free iterative method	D Kumar, JR Sharma, L Jäntschi	Mathematics	2019	0	SLIET Longowal	0
Generalized Kung–Traub method and its multi-step iteration in Banach spaces	JR Sharma, S Kumar, IK Argyros	Journal of Complexity	2019	1	SLIET Longowal	1
An efficient class of weighted-Newton multiple root solvers with seventh order convergence,	JR Sharma, D Kumar, C Cattani	Symmetry	2019	0	SLIET Longowal	0

A modified Newton–	R Sharma, JR	International Journal of	2019	0	SLIET	0
Özban composition for	Sharma, N Kalra	Computational Methods			Longowal	
solving nonlinear systems						
One-point optimal family	D Kumar, JR	Mathematics	2019	0	SLIET	0
of multiple root solvers of	Sharma, C				Longowal	
second-order	Cesarano					
Numerical inverse Laplace	Dimple Rani and	Results in Physics (Elsevier)	2020	1	SLIET	1
transform based on	Vinod Mishra				Longowal	
Bernoulli polynomials						
operational matrix for						
solving nonlinear						
differential equations						
Numerical inverse Laplace	Dimple Rani and	Symmetry-	2019	5	SLIET	5
transform for solving a	Vinod Mishra	Basel (MDPI)			Longowal	
class of fractional	and Carlo					
differential equations	Cattani					
Solving linear fractional	Dimple Rani and	Mathematics in Engineering,	2019	0	SLIET	0
order differential	Vinod Mishra	Science and Aerospace			Longowal	
equations by Chebyshev						
polynomials based						
numerical inverse Laplace						
transform						
Some new harmonic	Chinu Singla,	Filomat	2019	0	SLIET	0
mappings convex in one	Sushma Gupta				Longowal	
direction and their	and Sukhjit					
convolution	Singh					
On a subclass of univalent	Deepali Khurana,	Adv. Math.Sci. J	2020	0	SLIET	0
narmonic mappings	Sushma Gupta				Longowal	
convex in the imaginary	and Sukhjit					
direction	Singh					
Some norm inequalities	Y. Kapil, R. Pal,	Advances in	2019	0	SLIET	0
for operators	M. Singh and	Operator Theory			Longowal	
	J.S.Aujla					
Inertia of some	A. Aggarwal and	Advances in	2019	0	SLIET	0
conditionally negative	M. Singh	Operator Theory			Longowal	
definite matrices						
On a question of Bhatia,	Y. Kapil, R. Kaur	Linear and	2019	0	SLIET	0
Friedland and Jain	and M. Singh	Multilinear Algebra			Longowal	
Phase transition of	Mishra R.K.	Astrophysics and Space	2020	0	SLIET	0
cosmological model with	Dua Heena,	Science			Longowal	
statistical techniques						
Cosmological models in	Mishra R.K.,	Astrophysics and Space	2019	0	SLIET	0
Sáez-Ballester theory with	Chand A.	Science			Longowal	
bilinear, varying						
deceleration parameter						
Bulk viscous string	Mishra R.K.	Journal of	2019	3	SLIET	3
cosmological models in	Dua Heena,	Astrophysics and Space			Longowal	
Saez-Ballester theory of		Science				
gravity						L
Physicochemical,	Nisar A. Mir,	Food Hydrocolloids	2019	2	SLIET	14
molecular and thermal	Charanjit S. Riar,				Longowal	
properties of high-	Sukhcharn Singh					
intensity ultrasound						
(HIUS) treated protein						
solates from album						
(Chenopodium album)						

Effect of chemical	Farhan	Food Chemistry	2019	1	SLIET	03
composition, granule	Mohiuddin Bhat,				Longowal	
structure and crystalline	Charanjit Singh					
form of pigmented rice	Riar					
starches on their						
functional characteristics						
Structural modification of	Nisar A. Mir,	Ultrasonics–Sonochemistry	2019	1	SLIET	09
quinoa seed protein	Charanjit S. Riar,	The deciment of the deciment of	2010		Longowal	
isolates (QPIs) by	Sukhcharn Singh					
variabletime sonification	Sukironarii Sirigir					
for improving its						
physicochemical and						
functional characteristics,						
Sensory, rheological and	Ramandeep	Journal of Food Science and	2019	1	SLIET	08
chemical characteristics	Kaur, Charanjit S.		2019	1	Longowal	08
	Riar	Technology			Longowan	
during storage of set type	Kidi					
full fat yoghurt fortified						
with barley β-glucan,	NA	Translation Families 2	2020		CLIET	10
Composition and	Mamta Thakur	Trends in Food Science &	2020	2	SLIET	10
functionality of bee	and Vikas Nanda	Technology			Longowal	
pollen: A review,				_		
Sugar profile and	Rajni Kamboj,	Journal of Food Science and	2020	1	SLIET	1
rheological behaviour of	Gulzar Ahmad	Technology			Longowal	
four different Indian	Nayik, Manav					
honey varieties.	Bandhu Bera,					
	Vikas Nanda					
Analysis of crystallization	Rishi Rabindra	Food Chemistry	2019	1	SLIET	4
phenomenon in Indian	Naik, Mamta				Longowal	
honey using molecular	Thakur and Vikas					
dynamics simulations and	Nanda					
artificial neural network.						
Moisture sorption	Ishrat Majid,	Journal of Food Measurement	2019	0	SLIET	0
isotherms and quality	Shafat Hussain	and Characterization			Longowal	
characteristics of onion	and Vikas Nanda					
powder during storage as						
affected by sprouting.						
Impact of sprouting on	Ishrat Majid,	Journal of Food Processing and	2019	1	SLIET	3
the degradation kinetics	Shafat Hussain	Preservation.	2010		Longowal	
of color and vitamin C of	and Vikas Nanda					
onion powder packaged	aria viikas riariaa					
in different packaging						
materials.						
Unmasking the Many	Verma, D. K.,	Current Pharmaceutical Design.	2020	0	SLIET	0
Faces of Giloy (<i>Tinospora</i>	Kimmy, G.,	Carrent i narmaceaticar Design.	2020		Longowal	
cordifolia L.): A Fresh Look	Kumar, P. and El-					
on its Phytochemical and	Shazly, M.					
Medicinal Properties.	JIIaziy, IVI.					
·	Indu Dhart	IM/T Food Coi 9 Took of the	2010	1	SLIET	02
Exploring the influence of	Indu Bharti,	LWT-Food Sci. & Technology	2019	1	Longowal	03
heat moisture treatment	Sukhcharn				LOUROWAI	
on physicochemical,	Singh, DC					
pasting, structural and	Saxena,					
morphological properties						
of mango kernel starches						
from Indian cultivars,					ļ	
Experimental and	Mamta	International Journal of		0	SLIET	0
modeling studies of the	Bhardwaj,	Biological Macromolecules,			Longowal	
flow, dynamic and creep	Kawaljit Singh					
recovery properties of	Sandhu, DC					
recovery broberties or	Janunu, DC		I			

pearl millet starch as affected by concentration	Saxena,					
and cultivar type, Valuation of Citrus reticulata (kinnow) peel for the extraction of lutein using ultrasonication technique.	A. Saini, Parmjit S. Panesar, M.B. Bera	Biomass Conv. Bioref.	2020	1	SLIET Longowal	4
Recent trends on the valorization strategies for the management of citrus by-products,	Divyani Panwar, Parmjit S. Panesar & Harish K. Chopra	Food Reviews International	2019	1	SLIET Longowal	3
L(+) lactic acid production by immobilized Lactobacillus casei using low cost agro-industrial waste as carbon and nitrogen source.	Avinash Thakur, Parmjit S. Panesar and Manohar S. Saini	Waste and Biomass Valorization	2019	1	SLIET Longowal	9
A comparative study on experimental and response surface optimization of lactic acid synergistic extraction using green emulsion liquid membrane.	Anil Kumar, Avinash Thakur and Parmjit S. Panesar	Separation and Purification Technology	2019	2	SLIET Longowal	10
Peroxidase as indicator enzyme of blanching in bottle gourd (<i>Lagenaria siceraria</i>): Changes in enzyme activity, color, and morphological properties during blanching.	Suheela Bhat, Charanjiv Singh Saini, Manish Kumar and Harish Kumar Sharma. 2019.	Journal of Food Processing and Preservation	2019	0	SLIET Longowal	0
Algorithm for processing high definition images for food colourimetry.	P.S. Minz, Ish Kumar Sawhney and Charanjiv Singh Saini.	Measurement,	2020	0	SLIET Longowal	0
A Comparative Study on the extraction and quantification of polyphenols from citrus peels using maceration and ultrasonic technique.	A. Saini, Parmjit S. Panesar, M.B. Bera.	Current Research in Nutrition and Food Science,	2019	1	SLIET Longowal	4
A comparative study on experimental and response surface optimization of lactic acid synergistic extraction using green emulsion liquid membrane.	Anil Kumar, Avinash Thakur and Parmjit S. Panesar	Separation and Purification Technology,	2019	2	SLIET Longowal	10
Classification, Functional Properties and Health Related Issues Associated with Consumption of Fats: A Review, International	Farhan Mohiuddin Bhat, Shruti Chandel, Sangita Sood, Yadvinder S Dhaliwal, Charanjit S Riar	Journal of Pharmacy and Pharmaceutical Research,	2019	0	SLIET Longowal	0
Effects of Milling on the Bran Removal, Nutritional	Bhat FM, Riar CS and Sangita S	Food Science and Nutrition Technology,	2019	0	SLIET Longowal	0

			,	_		ı
and Cooking Characteristics of						
Traditional Rice Cultivars,						
Formulation and	Mandeep Singh	Legume Science	2020	1	SLIET	1
characterization of	Sibian, Charanjit				Longowal	
cookies prepared from	Singh Riar.					
the composite flour of						
germinated kidney bean,						
chickpea, and wheat,						
Effect of storage period	Seema Sharma,	Annals. Food Science and	2020	1	SLIET	1
and packaging materials	Charanjit S Riar	Technology,			Longowal	
on textural, phenolic,						
antioxidant properties of						
cookies made from raw						
and germinated minor						
millet blends flour.	A C · · D · ·	A .:	2010		CLIET	
Bioactive compounds	A. Saini, Divyani	Austin Journal of Nutrition and	2019	0	SLIET Longowal	0
from cereal and pulse processing byproducts	Panwar, Parmjit S. Panesar, M.B.	Metabolism,			Longowai	
and their potential health	Bera					
benefits.	Dela					
Kinetic study of extrusion	Jasmeet Kour,	British Food Journal,	2019	0	SLIET	0
cooking of corn-rice flour	Sukhcharn	British redu sournar,	2013		Longowal	
blend fortified with	Singh, Dharmesh					
nutraceutical	C Saxena					
concentrates with respect						
to various physical						
parameters,						
Tensile Strength and	Narender Kumar	Asian Journal of Dairy & Food	2020	0	SLIET	0
Solubility Studies of	Chandla, Sunil	Research			Longowal	
Edible Biodegradable	Kumar Khatkar,					
Films Developed from	Sukhcharn					
Pseudo-cereal Starches:	Singh, DC					
An Inclusive Comparison	Saxena, Navdeep					
with Commercial Corn	Jindal, Venus					
Starch,	Bansal, Nitin					
Quality attributes of	Wakchaure,	Journal of Advances in Food	2019	01	SLIET	01
Quality attributes of germinated amaranth	Arti Chauhan, DC Saxena,	Science & Technology,	2019	01	Longowal	01
flour pasta supplemented	Sukhcharn	Science & Technology,			201.801141	
with different	Singh,					
hydrocolloids,	3111811)					
Synthesis of Palladium	Kanika Aggarwal	International journal of	2019	00	SLIET	00
nanoparticles in SiO ₂	00	Advanced science and			Longowal	
matrix		technology				
Hydrogen sensing	Kanika Aggarwal	AIP Conference Proceedings	May,	00	SLIET	00
properties of Palladium			2020		Longowal	
Thin films and						
Nanoparticles						
Two-particle azimuthal	Prabhdeep Kaur	JOURNAL OF HIGH ENERGY	Dec,	00	SLIET	00
correlations as a probe of	(as a member of	PHYSICS	2019		Longowal	
collective behaviour in	ZEUS					
deep inelastic ep	collaboration)					
scattering at HERA					CI :==	
Study of proton parton	Prabhdeep Kaur	Physical review D	March,	00	SLIET	00
distribution functions at	(as a member of		2020		Longowal	
high x using ZEUS data	ZEUS					
	collaboration)		1			<u> </u>

	1				1	1
On the potential for	Gupta, Y., Sinha,	Physica C: Superconductivity	2020	0	SLIET	0
superconductivity in ZrX	M.M., Verma,	and its Applications			Longowal	
(X = S and Te): a first-	S.S.					
principles study						
Magneto-plasmonic	Bhatia,	Journal of Quantitative	2020	0	SLIET	0
Co@M (M = Au/Ag/Au-	P., Verma,	Spectroscopy and Radiative			Longowal	
Ag) core-shell	S.S., Sinha, M.M.	Transfer				
nanoparticles for						
biological imaging and						
therapeutics						
Lattice dynamics of novel	Gupta, Y., Sinha,	Physica B: Condensed Matter	2020	1	SLIET	0
Heusler alloys MnY2Z	M.M., Verma,				Longowal	
(Z=Al and Si)	S.S.					
Size-dependent optical	Bhatia,	Chemical Physics Letters	2020	1	SLIET	0
response of complex	P., Verma,				Longowal	
CoFe@Ag & CoFe@Au	S.S., Sinha, M.M.					
core-shell nanospheres						
Enhanced photocurrent in	Singh,	Energy Sources, Part A:	2020	2	SLIET	1
thin-film GaAs solar cells	G., Sekhon,	Recovery, Utilization and			Longowal	
with embedded Al	J.S., Verma, S.S.	Environmental Effects				
nanoparticles						
Tunable optical response	Bhatia,	Journal of Electromagnetic	2020	0	SLIET	0
of Fe-Ag nanoparticles in	P., Verma,	Waves and Applications	2020		Longowal	
core-Shell nanostructures	S.S., Sinha, M.M.	waves and Applications				
Theoretical study of	Gupta, Y., Sinha,	Philosophical Magazine	2020	0	SLIET	0
structural, electronic and	M.M., Verma,	Timosopinical iviagazine	2020		Longowal	
lattice dynamical	S.S.				201.801141	
properties of novel AlNiP	3.3.					
half-Heusler alloy						
Tunable plasmonic	Bhatia,	Journal of Quantitative	2020	0	SLIET	0
·	•		2020	0	Longowal	U
properties of elongated	P., Verma,	Spectroscopy and Radiative			Longowan	
bimetallic alloys	S.S., Sinha, M.M.	Transfer				
nanoparticles towards						
deep UV-NIR absorbance						
and sensing						
Design and analysis of	Singh,	Photonics and Nanostructures -	2019	1	SLIET	1
thin film GaAs solar cells	G., Verma, S.S.	Fundamentals and Applications			Longowal	
using silver nanoparticle						
plasmons						
Size dependent plasmonic	Bhardwaj,	Optics Communications	2019	0	SLIET	0
properties of Ga@Ag &	A., Verma, S.S.				Longowal	
Cs@Ag liquid–metal						
nanospheres						
Optical properties	Bhatia,	Plasmonics	2019	5	SLIET .	0
simulation of magneto-	P., Verma,				Longowal	
plasmonic alloys	S.S., Sinha, M.M.					
nanostructures						
A First Principle Study of	Gupta, Y., Sinha,	Physics Status Solidi b	2019	2	SLIET	0
Structural, Electronic and	M.M., Verma,				Longowal	
Vibrational Properties of	S.S.					
LuPdBi Half Heusler Alloy						
Size-Dependent RIS and	Bhatia,	Photonic Sensors	2019	1	SLIET	0
FOM of Ag-Fe and Au-Fe	P., Verma,				Longowal	
Bimetallic Alloys in	S.S., Sinha, M.M.					
Triangular Prism: a DDA						
Study						
Tuning the Optical	Bhatia,	Physics Letters A	2019	7	SLIET	5
ranning the Optical						

Properties of Fe-Au Core- Shell Nanoparticles with Spherical and Spheroidal Nanostructures	P., Verma, S.S., Sinha, M.M.					
Plasmon enhanced light trapping in thin film GaAs solar cells by Al nanoparticle array	G Singh, SS Verma	Physics Letters A	2019	12	SLIET Longowal	9
Synthesis and Characterization of Some Useful Thermoelectric Materials	J SINGH, SS VERMA	Asian Journal of Chemistry	2019	3	SLIET Longowal	3
Novel Green Synthesis and Characterization of the Antioxidant Activity of Silver Nanoparticles Prepared from Nepeta leucophylla Root Extract,	Jagdeep Singh & Amarjit Singh Dhaliwal	Analytical Letters (IF= 1.260)	2019	0	SLIET Longowal	0
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst,	Jagdeep Singh & A. S. Dhaliwal	Environmental Technology (I.F = 2.213)	2020	0	SLIET Longowal	0
Modified atomic number dependence of total bremsstrahlung spectra in compounds,	Sjit Sharma, T Singh, D Singh, A Singh, A S Dhaliwal,	Turkish Journal of Physics(IF=0.34)	2019	0	SLIET Longowal	0
Photon Interaction Parameters Investigations for Some ZnO–Al2O3– Fe2O3–P2O5 Glasses at 59.4 keV Incident Photon Energy.	R Singh, D Singh, A Singh, AS Dhaliwal	Glass Physics and Chemistry (IF=0.630)	2019	0	SLIET Longowal	0
Structural investigation of Nd-zirconolite irradiated with He+ ions.	M. Gupta, P. K. Kulriya, R. Kumar & S. S. Ghumman,	Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms (IF= 1.270)	2020	0	SLIET Longowal	0
Probing swift heavy ion irradiation damage in Nd-doped zirconolite.	Merry Gupta P.K. Kulriya, R.C.Meena, S.Neumeier & S.S.Ghumman,	Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms (IF= 1.270)	2019	0	SLIET Longowal	0
Phase analysis and reduction behaviour of Ce dopant in zirconolite.	Rajveer Kaur, M. Gupta,P. K. Kulriya and S. S. Ghumman,	Journal of Radioanalytical and Nuclear Chemistry (IF= 1.240)	2019	0	SLIET Longowal	0
Synthesis of a new tetradentatechelator with 1-Hydoroxy-2(1H)-pyridinone (HOPO) as chelating unit: Interaction with Fe (III), solution thermodynamics and DFT studies	B.K. Kanungo, MinatiBaral, Dibyajit Dash	J. Molecular Structure	2020	0	SLIET Longowal	0

Photophysical Studies of a Catechol Based PolyfunctionalDipodalChe lator: Application for Optical Probe for Selective Detection of Fe(III)	B K Kanungo,Minati, Baral, Vijay Dangi	Journal of fluorescence	2020	0	SLIET Longowal	0
Dipodal Molecular Device as Fluorescent Sensor for Na(I) Detection	B K KanungoMinati, Baral, Vijay Dangi	Journal of Applied Spectroscopy	2020	0	SLIET Longowal	0
Experimental and Theoretical Studies on Structure, Bonding and Luminescence Properties of Eu(III) and Tb(III) Complexes of a New Macrocyclic Based 8HQ Ligand	B K Kanungo, Rohini, Minati Baral	Journal of Coordination Chemistry	2019	0	SLIET Longowal	0
Structural effect on the central cavity of a pendent 12N3 macrocycle on bonding and photophysical properties of Eu ³⁺ and Tb ³⁺ complexes: Experimental and theoretical study	B K Kanungo, Rohini, Minati Baral	Journal of Molecular Structure	2019	1	SLIET Longowal	0
Study for the Development of a Cyclohexane Based Tripodal Molecular Device as "OFF-ON-OFF" pH Sensor and Fluorescent Iron Sensor	B. K. KanungoMinati, Baral, Vijay Dangi	Current Analytical Chemistry	2019		SLIET Longowal	
Experimental and theoretical investigations of Mn-N-co-doped TiO ₂ photocatalyst for visible light induced degradation of organic pollutants	Dhiraj Sud N Sharotri, D Sharma	Journal of Materials Research and Technology	2019	19	SLIET Longowal	19
Investigations on amphoteric Chitosan/TiO ₂ bio-nanocomposites for application in visible light induced photocatalytic degradation	Dhiraj Sud M. Bahal, N. Kaur, N. Sharotri	Advances in Polymer Technology	2019	03	SLIET Longowal	03
A Review on High Performance Liquid Chromatographic Methods for the Determination of Metformin	DhirajSud, G. Kaur Sonali Garg, Pratima Sharma	Current Analytical Chemistry	2020	0	SLIET Longowal	0
Development of Simple, Facile Spectrophotometric Method for Determination of Metformin Hydrochloride	Dhiraj Sud, Sonali Garg, Pratima Sharma	J Pharm Drug Deliv Res	2020	0	SLIET Longowal	0

in Aguadus Mastirus					1	
in Aqueous Medium Synthesis and applications of carbohydrate based chiral ionic liquids as chiral recognition agents and organo-catalysts	Harish Kumar Chopra and Nirmaljeet Kaur	Journal of Molecular Liquids	2020	05	SLIET Longowal	05
Optimization of process variables of probe ultrasonic-assisted extraction of phenolic compounds from the peel of Punicagranatum Var. Bhagwa and its chemical and bioactivity	Harish Kumar Chopra, MB Bera, R Foujdar	Journal of Food Processing and	2020	02	SLIET Longowal	02
Chiral Recognition Methods in Analytical Chemistry: Role of the Chiral Ionic Liquids	Harish Kumar Chopra, Avtar Singh,Nirmaljeet Kaur	Crit. Rev. Anal. Chem.	2019	08	SLIET Longowal	07
Recent Trends on the Valorization Strategies for the Management of Citrus By-products,	Harish Kumar Chopra,P.S.Panes ar, Divyani Panwar	Food Rev. International	2019	01	SLIET Longowal	01
Recent Advances in Applications of Supported Ionic Liquids	Harish Kumar Chopra, Pawanpreet Kaur	Curr. Org. Chem	2019	0	SLIET Longowal	0
Ultrasound assisted facile synthesis and antimicrobial studies of alkanediyl-bis-thiazolidi-4-one and alkanediyl-thiazinz-4-ones.	R.P. Chaudhary, Amritpal Kaur, A. P. Kaur, P. Gautan, D. Gautam	Journal of Heterocyclic Chemistry	2019	0	SLIET Longowal	0
Correlation study among the extraction techniques, phytochemicals, and antioxidant activity of Nepeta spicata aerial part	Damanjit Singh Cannoo Poonam Kumari Patial, Ajay Sharma, Inderpal Kaur	Biocatalysis and Agricultural Biotechnology	2019	02	SLIET Longowal	0
Phytochemical profile, antioxidant potential and DFT study of Araucaria columnaris (G. Forst.) Hook. Branch extracts	Damanjit Singh Cannoo, Poonam Kumari Patial	Natural Product Research	2019	02	SLIET Longowal	01
Evaluation of volatile compounds, phenolic acids, antioxidant potential and DFT study of essential oils from different parts of Araucaria columnaris (G. Forst.) Hook. from India	Damanjit Singh Cannoo, Poonam Kumari Patial	Food and Chemical Toxicology	2020	0	SLIET Longowal	0
A review of bischalcones: synthesis and pharmacological applications	Himanshu Rani, V. Bhardwaj	International Journal of Research and Analytical Reviews	2019	0	SLIET Longowal	0
Advances in urea and	Payal Malik, Isha	Eur. Polym. J.	2020	0	SLIET Longowal	0

thiourea catalyzed ring opening polymerization: A brief overview	Jain					
Thermal and tensile properties of PVA and wood flour composites	Rajeev Bagoria, Vikram Kumar, Sohan Lal, and Sanjiv Arora	International Journal of Applied Engineering Research	2019	0	SLIET Longowal	0
Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA,	Dr.P.K. Singh	Material Today	2020	02	SLIET Longowal	02
Optimization of surface roughness and hole diameter accuracy in drilling of EN-31 alloy steel–A TGRA based analysis	Dr.P.K. Singh	Material Today	2020	01	SLIET Longowal	01
Investigation of Tribological Behaviour of Al-4032 Based Metal Matrix Composite using Taguchi's Optimization Approach, Materials	Dr.P.K. Singh	Material Today	2019	0	SLIET Longowal	0
Microstructural and Mechanical Characterization of Al- 4032 Based Metal Matrix Composites,	Dr.P.K. Singh	Material Today	2019	0	SLIET Longowal	0
Investigation of wear characteristics of Al-4032 based metal matrix composite using Taguchi's optimization approach,	Dr.P.K. Singh	Material Today	2019	0	SLIET Longowal	0
Influence of different filler weld wire chemistries on metallurgical and mechanical behavior of ultrahigh strength steel welded joints",	Dr.A.S.Shahi	Journal of Materials	2019	02	SLIET Longowal	02
Metallurgical and corrosion characterization of electron beam welded duplex stainless steel joints	Dr.A.S.Shahi	Elsevier, SCOPUS	2019	01	SLIET Longowal	01
Weld metal composition and aging influence on metallurgical, corrosion and fatigue crack growth behavior of austenitic stainless steel welds.	Dr.A.S.Shahi	IOP	2019	01	SLIET Longowal	01
Metallurgical, fatigue and pitting corrosion behavior of AISI 316 joints welded with Nb based stabilized steel filler	Dr.A.S.Shahi	Springer	2020	01	SLIET Longowal	01

Influence of intermetallic precipitation on	Dr.M.Majid	IOP	2019	01	SLIET Longowal	01
metallurgical, mechanical and pitting behavior of AISI 2205 duplex stainless steel welded joints,						
Investigations on High Temperature Wear And Metallurgical Characteristics Of Stellite 6 GTA (Gas Tungsten Arc) Weld Claddings, Mater	Dr.A.S.Shahi	IOP	2020	0	SLIET Longowal	0
Optimization of Turning Parameters of Titanium Chrome-moly (Ti-Cr-Mo) Alloy using Taguchi Method	Dr.A.jayant	Indian Journal of Engineering & Materials Sciences	2020	0	SLIET Longowal	0
Decision Support Framework for Smart Implementation of Green Supply Chain Management Practices	Dr.A.jayant	Springer, Cham (Scopus).	2020	0	SLIET Longowal	0
A robust hybrid multi- criteria decision-making approach for selection of third-party reverse logistics service provider	Dr.A.jayant	Springer,	2019	0	SLIET Longowal	0
Application of Machine Learning Technique for demand forecasting: A Case Study of manufacturing industry	Dr.A.jayant	Springer,	2019	0	SLIET Longowal	0
Low Carbon Supply Chain Management: A Fuzzy- DEMATEL Analysis of Some Practical Issues of Indian Manufacturing Industries	Dr.A.jayant	Springer,	2019	0	SLIET Longowal	0
A novel hybrid MCDM approach based on DEMATEL, AHP and TOPSIS to evaluate green suppliers	Dr.A.Jayant	IOP	2019	0	SLIET Longowal	0
Sustainable supplier selection for battery manufacturing industry: A MOORA and WASPAS Based Approach	Dr.A.Jayant	IOP Journal of Physics	2019	0	SLIET Longowal	0
An Intelligent Simulation based case study of Indian Micro Small Medium Enterprise (MSME) of farm equipment Manufacturing	Dr.A.jayant	IOP Journal of Physics	2019	0	SLIET Longowal	0
Simulation based design of Production and Multi echelon supply chain	Dr.A.Jayant	IOP Journal of Physics	2019	01	SLIET Longowal	01

network for job shop						
manufacturing						1
environment High temperature corrosion performance of	Er.lalit Ahuja	Materials Today	2020	0	SLIET Longowal	0
ceria doped Cr3C2-NiCr coated superalloys under actual medical waste atmosphere					201,801141	
Evaluation of high	Dr.M.Kumar	Materials Today	2020	0	SLIET	0
temperature oxidation performance of bare and coated T91 steel,	Dr.ivi.kumar	Materials loday	2020		Longowal	0
Arduino Based Economic and Real Time Consumption Rate	Dr.Sunil kumar	Universal Journal of Mechanical Engineering	2019	0	SLIET Longowal	0
Computing						
Signal Processing for Enhancing Impulsiveness Toward Estimating Location of Multiple Roller Defects in a Taper	Dr.Rajesh Kumar		2020	03	SLIET Longowal	03
Roller Bearing"						
Worm and wheel gears fault frequency extraction using minimum entropy deconvolution based envelope of the vibration signal,	Dr.Rajesh Kumar	IOP Journal of Physics	2019	0	SLIET Longowal	0
Development of	Dr.Kulwant Singh	Journal of Advanced	2020	0	SLIET	0
exothermic flux for enhanced penetration for submerged arc welding process	Di.Kulwant Siligii	Manufacturing Systems,	2020		Longowal	0
recycling of steel slag as a useful flux for submerged arc welding	Dr.Kulwant Singh	Journal of Advanced Manufacturing Systems,	2020	0	SLIET Longowal	0
Some studies into weldability of rice husk ash aluminium matrix composite using TIG welding,	Dr. Shankar Singh	Material Today	2019	0	SLIET Longowal	0
Assessment of Creep in Composite Disc having Exponential, Hyperbolic and Uniform Thickness	Dr.R.K. Saxsena	Material Today	2020	0	SLIET Longowal	0
Profiles	D. D.K. C	NA-t	2022	1	CLIET	-
Finite element simulation of Stress Corrosion cracking in Austenitic	Dr.R.K. Saxsena	Material Today	2020	0	SLIET Longowal	0
Stainless Steel using						
Modified Lemaitre						
Damage Model					CLIET	-
An examination of mechanical properties of dissimilar AISI 304	Dr.R.K. Saxsena	Material Today	2020	0	SLIET Longowal	0

stainless steel and copper						
weldment obtained using						
GTAW						
Analysis of joint overlap	Dr.R.K.	Material Today	2020	0	SLIET	0
during friction spin	Saxsena				Longowal	
welding of plastics						
Determination of	Dr.R.K.	Material Today	2020	0	SLIET	0
Johnson-Cook material	Saxsena				Longowal	
model for weldment of						
mild steel						
Numerical simulation of	Dr.R.K.	Material Today	2020	0	SLIET	0
fracture behavior under	Saxsena				Longowal	
high-velocity impact for						
Aluminium alloy 6060						
Target plate						
Prediction of bending	Dr.R.K.	Material Today	2020	0	SLIET	0
behaviour for Laser	Saxsena	·			Longowal	
Forming of Lime coated						
plain Carbon steel using						
Finite Element Method						
An Experimental	Dr.R.K.	IOP Journal of Physics	2019	0	SLIET	0
investigation into heat	Yadav	,			Longowal	
transfer characteristics of						
Cu nanofluid for						
automobile radiator						
Multi-response	Dr.P.K.	IOP Journal of Physics	2019	02	SLIET	02
Optimization using TGRA	Singh	Ter seamarer mysics	2013	02	Longowal	02
for End Milling of AISI H11	311/811					
Steel Alloy Using Carbide						
End Mill						
Manufacturing Excellence	Dr.P.Gupta	International Journal of	2019	0	SLIET	0
through Total Productive	Di.i.Gapta	Mechanical and Production	2013		Longowal	
Maintenance		Engineering				
Implementation in an		Linginicering				
Indian Industry						
	Dr.P.Gupta	International Journal of	2019	0	SLIET	0
on Pure-Ti using USM and	Di.i.Gupta	Mechanical and Production	2013		Longowal	
Optimization of Process		Engineering				
Parameters		Liigineering				
Performance and	Dr.P.Gupta	Springer Proceeding Lecture	2019	0	SLIET	0
Emission testing of Diesel	DI.P.Gupta	Notes in Mechanical	2019		Longowal	0
Engine using blends of		Engineering			Longowan	
Biodiesel from Castor Oil		Engineering				
and Neem Oil prepared						
using Lithium						
Doped CaO Nano-Catalyst	D. D.C.	Durana din sa a Cul	2020		CLIET	
Identifying the most	Dr.P.Gupta	Proceedings of the	2020	0	SLIET	0
influencing success		International Conference on			Longowal	
factors of TQM		Industrial Engineering and				
implementation in		Operations Management Dubai				
manufacturing industries						
using Analytical Hierarchy						
Process						
To Investigate the	Dr.P.Gupta	Proceedings of the	2020	0	SLIET	0
Relationship between		International Conference on			Longowal	
TQM Enablers		Industrial Engineering and				
Applicable In Indian		Operations Management Dubai	1			

			_	-	1	1
Engineering Educational Institutes						
Hybrid Response Surface Method-African Buffalo Optimization Technique for Ultrasonic Production of Biodiesel from Waste	Dr.P.Gupta	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2020	0	SLIET Longowal	0
Cooking Oil using Li doped CaO Nanocatalys						
Composite approach of RSM-ABO for optimization of production of Ricinus Communis biodies el using Lithium doped CaO Nanocatalys	Dr.P.Gupta	International journal of advances in Science and Technology	2020	0	SLIET Longowal	0
Case Study on Business Excellence Issues of an Indian Automobile Manufacturer using SAP- LAP Framework	Dr. P. Gupta	International Journal on Emerging Technologies	2020	0	SLIET Longowal	0
Multi-Objective Optimization of Electro Discharge Machining of Nimonic 75 Using Taguchi Based Grey Relational Analysis	Dr. Shankar Singh	Journal of Advanced Manufacturing Systems	2020	0	SLIET Longowal	0
Multi-objective optimization of Electrical Discharge Machining of Nimonic 75 using Teaching Learning Based Optimization(TLBO) Algorithm	Dr.Shankar Singh	Materials Today	2020	0	SLIET Longowal	0
An Exploratory Investigation and Optimization of Taper Cutting Operation with Wire Electro Discharge Machining	Dr.Shankar \Singh		2020	0	SLIET Longowal	0
Support Vector Machine Model for Demand Forecasting in an Automobile parts industry:	Dr.A.Jayant	International Research Journal of Science, Engineering and Technology	2019	0	SLIET Longowal	0
Application of Machine Learning Techniques in Supply Chain Management	Dr.A.Jayant	International Research Journal of Management Sciences & Technology	2019	0	SLIET Longowal	0
Evaluating Low Carbon Supply Chain Practices in India using Fuzzy Tool based Importance and Performance Analysis	Dr.A.Jayant	Journal of Energy, Environment & Carbon Credits	2019	0	SLIET Longowal	0
Electro Discharge Drilling (EDD) of Rice Husk Ash Reinforced Aluminium Matrix Composite Using Different Electrode	Dr.Shankar Singh	Journal of Emerging Technologies and Innovative Research	2019	0	SLIET Longowal	0

Shapes						
Some studies into Slicing of Titanium alloy using Wire Electro-Discharge Machining Process	Dr.Shankar Singh	Journal of Emerging Technologies and Innovative Research	2019	0	SLIET Longowal	0
Effect of post weld thermal aging (PWTA) sensitization on micro- hardness and corrosion behaviour of AISI 304 weld joints	A.S. Shahi	Journal of Physics:	2019	0	SLIET Longowal	0
Sensitization Studies on the Metallurgical and Corrosion Behaviour of AISI 304 SS Welds M Kumar, A Sharma, AS Shahi	A.S. Shahi	Advances in Manufacturing Processes	2019	0	SLIET Longowal	0
Metallurgical, impact and fatigue performance of electron beam welded duplex stainless steel joints	A.S. Shahi	Journal of Materials Processing Technology	2019	0	SLIET Longowal	
Erosion Behavior Of Hydrophobic Polytetrafluoroethylene (PTFE) Coatings with Different Thicknesses'	Er.Anuj Bansal	Journal of manufacturing Process	2020	0	SLIET Longowal	
Influence of Cryogenic Treatment on Mechanical Performance of Friction Stir Al-Zn-Cu Alloy Weldments	Er.Anuj Bansal	Journal of manufacturing Process	2020	0	SLIET Longowal	
Laser Cladding Technique for Erosive Wear Applications:	Er.Anuj Bansal	Journal of manufacturing Process	2020	0	SLIET Longowal	
Slurry Erosion Behavior of HVOF-Sprayed Wc-10Co- 4cr Coated SS 316 Steel with and without PTFE Modification	Er.Anuj Bansal	Journal of Thermal spray Technology	2019	0	SLIET Longowal	
A novel health indicator developed using filter-based feature selection algorithm for the identification of rotor defects" Proceedings of the Institution of Mechanical Engineers Part O	Dr.Anil Singla	Journal of Risk and Reliability	2020	0	SLIET Longowal	
Bearing defect size assessment using wavelet transform based Deep Convolutional Neural Network (DCNN	Dr.Anil Singla	Alexandria Engineering Journal (Elsevier	2020	0	SLIET Longowal	

Development of LDA	Dr.Anil Singla	Springer	2019	0	SLIET	
Based Indicator for the					Longowal	
Detection of Unbalance						
and Misalignment at						
Different Shaft Speeds						
Abrasive wear behavior of	Dr.Anil Singla	SCIE	2019	0	SLIET	
cryogenically treated	DI.AIIII SIIIgid	Jeil	2013		Longowal	
Boron Steel (30 MnCrB4)					22118211111	
,						
used in rotavator blades,	D D V C	D. C. C	2020		SLIET	
Influences of Latent Heat	Dr.R.K.Saxsena	Defence Science Journal	2020	0		
on Temperature Field,					Longowal	
Weld Bead Dimensions						
and Melting Efficiency						
During Welding						
Simulation						
Creep Response of	Dr.R.K.	Defense Science Journal	2020	0	SLIET	
Rotating Composite Discs	Saxsena				Longowal	
having Exponential,						
Hyperbolic, Linear and						
Constant Thickness						
Profiles						
Sustainability and	Dr.Anil Singla	Journal of Cleaner production	2020	0	SLIET	
machinability	8				Longowal	
improvement of Nimonic-						
90 using indigenously						
developed green hybrid						
machining technology						
	Do Amil Cimela	Journal of Materials	2020		SLIET	
Impact of Cryogenic	Dr.Anil Singla		2020	0	Longowal	
Treatment on HCF and		Engineering and Performance			Longowai	
FCP Performance of β-						
Solution Treated Ti-6Al-4V						
ELI Biomaterial						
Machinability	Dr.Anil Singla	International Journal of	2020	0	SLIET	
investigations of		Advanced Manufacturing			Longowal	
hardened steel with		Technology				
biodegradable oil-based						
MQL spray system						
Impact of Cryogenic	Dr.Anil Singla	Journal of Materials	2019	0	SLIET	
Treatment on Mechanical		Engineering and Performance			Longowal	
Behavior and						
Microstructure of Ti-6Al-						
4V ELI Biomaterial						
Parametric optimization	Dr.P.Gupta	ESCI Indexed Journal	2020	0	SLIET	
of USM parameters by					Longowal	
Taguchi and NSGA-II for						
the development of μ-						
channels on pure						
titanium. Grey Systems:						
Theory and Application						
Modelling and	Dr.D.Gunta	SPRINGER	2020	02	SLIET	02
_	Dr.P.Gupta	STAINGER	2020	02	Longowal	02
optimization of novel					LUNGUWAI	
biodiesel production from						
non-edible oil						
with musa balbisiana root						
using hybrid response						
surface methodology						
along with african buffalo						
optimization						

3.4.6 h-Index of the Insti	tutional Publications	s during the year. (based on Scop	us/ Web of so	ience)		
Title of the paper	Name of the author	Title of the journal	Year of publicatio n	h- inde x	Number of citations excluding self citations	Instituti onal affiliatio n as mentio ned in the publicat ion
An unconstrained and effective approach of script identification for online bilingual handwritten text	Gurpreet Singh, Manoj Kumar Sachan	National Academy Science Letters	January 2020	5	0	SLIET
SentiVerb system: classification of social media text using sentiment analysis	Shailend ra Kumar Singh, Manoj Kumar Sachan	Multimed ia Tools & Applicati ons	Novemb er 2019	5	3	SLIET
Simultaneous feature weighting and parameter determination of neural networks using ant lion optimization for the classification of breast cancer	Dalwinde r Singh, Birmoha n Singh, Manpree t Kaur	Biocyber netics and Biomedic al Engineer ing	January- March 2020	8	1	SLIET
Flexible fault tolerance in cloud through replicated cooperative resource group	Moin Hasan, Major Singh Goraya	Compute r Commun ications	Septemb er 2019	6	2	SLIET
A Survey and Taxonomy on Energy Management Schemes in Wireless Sensor Networks	Jaspreet Singh, Ranjit Kaur, Damanpr eet Singh	Journal of Systems Architect ure	May 2020	4		SLIET
Satisfaction aware QoSbased bidirectional service mapping in cloud environment	Neeraj Yadav, Major Singh Goraya, Damanpr eet Singh	Cluster Computi ng	February 2020	6	2	SLIET
An energy efficient scalable clustering protocol for dynamic wireless sensor networks	Harmanp reet Singh, Damanpr eet Singh	Wireless Personal Commun ications	August 2019	4	0	SLIET
An energy-efficient cloud system with novel dynamic resource allocation methods	Chao Tung Yang, Shuo- Tsung Chen, Jung- Chun Liu, Yu- Wei Chan, Chien- Chih Chen, Vinod Kumar Verma Kuldeep Verma,	The Journal of Superco mputing Journal of the Brazilian	August 2019	6	0	SLIET

investigations for the	R.M.	Society of Mechani cal				
selection of servo	Belokar, Vinod	Sciences and				
drive system of CNC	Kumar Verma,	Engineer ing				
machining centers	Klimis Ntalianis					
Computer aided face	Manmind er	Wireless Personal Commun	Decemb		0	SLIET
liveness detection	Singh, Ajat	ications	er 2019			
with facial	Shatru Arora					
thermography						
GRT:Gurmukhi to	Manoj	Internatio	July	5	0	SLIET
Roman	Kumar	nal	2019			
transliteration	Sachan,	Journal				
system using	Shailend	of				
character mapping	ra Kumar	Innovativ				
and handcrafted	Singh	e				
rules	S	technolo				
Tales		gy and				
		Exploring				
		Engineer				
		_				
Implementation of a	Chao Tung	ing Journal	Septemb	6	0	SLIET
software-defined	Chao-Tung Yang, Shuo-	of	er 2019	0	0	SLIET
	_	Internet	er 2019			
storage service with	Tsung Chen,					
heterogeneous	Wei-Hsiang	Services				
storage technologies	Lien and	and				
	Vinod	Informati				
	Kumar	on				
	Verma	Security		-		
A Ranking Based	Neeraj,	International	August	6	1	SLIET
Model for Selecting	Major	Journal of	2019			
Optimum Cloud	Singh	Innovative				
Geographical	Goraya,	Technology and				
Region	and	Exploring Engineering				
	Damanpr					
	eet					
	Singh					
VM Selection and	Neha	Internatio	July	6	0	SLIET
Allocation Policy to	Garg,	nal	2019			
Optimize VM	Damanpr	Journal				
Migration in Cloud	eet	of				
Environment	Singh,	Recent				
	Major	Technolo				
	Singh	gy and				
	Goraya	Engineer				
		Ing				
A review on retinal	Aastha,	Internatio	Septemb	1		SLIET
blood vessel	Rahul	nal	er 2019			
segmentation	Gautam	Journal				
methodologies		of				
		Scientific				
Effect of different	Tripathi, S.K.,	Environmental Science and	2020	0	0	SLIET
elemental chlorine	Bhardwaj, N.K.,	Pollution Research				
free bleaching	and Ghatak H.R.					
sequences on pulp						
and effluent						
properties and their						
impact on index of						
global pollution						
					_	

Developments in	Tripathi, S.K.,	Ozone: Science and	2020	0	02	SLIET
ozone-based	Bhardwaj, N.K.,	Engineering				
bleaching of pulps	and Ghatak H.R.					
Improvement in	Tripathi, S.K.,	Nordic Pulp and Paper	2019	0	01	SLIET
selectivity of ozone	Bhardwaj, N.K.,	Research Journal				
bleaching using DTPA	and Ghatak H.R.					
as carbohydrate						
protector for wheat						
straw pulp						
Adsorptive finding on	Jha, Pushpa	Resources, 8(4), 180; 2019	2019	24	01	SLIET
selective biomass for	,					
removal of Phenol						
from aqueous						
solutions						
Recent developments	Anil Kumar,	Journal of Cleaner Production	2019	173	03	SLIET
on sustainable	Avinash Thakur,	Journal of cicalier Froduction	2013	1,3	05	JEILI
solvents for emulsion	and Parmjit Singh					
liquid membrane	Panesar					
processes	Tanesai					
Statistical optimization	Anil Kumar and	Chemical Engineering	2019	06	0	SLIET
of lactic acid	Avinash Thakur	Research Bulletin	2013	00		JLILI
extraction using green	, winasii illakui	Research Dulletin				
solvent and mixed						
extractants (TOA and						
TOMAC						
Lactic acid and its	Anil Kumar,	in Environmental Science and	2019	71	06	SLIET
separation and	Avinash Thakur,	Bio/ Technology	2019	'1	00	SLIET
purification		Bio/ reciliology				
•	and Parmjit Singh					
techniques: A Review	Panesar	Scientia Iranica 26/6\:2456	2010	47	27	CLIET
Reactive Extraction of	Anil Kumar and Avinash Thakur	Scientia Iranica, 26(6):3456- 3467	2019	47	27	SLIET
Lactic Acid using Environmentally	AVIIIasii iiiakui	3407				
·						
Benign Green Solvents						
and Synergistic						
Mixture of Extractants	A Ci	Florida	2020	-		CLIET
Fabrication of calcium	Amandeep Singh;	Elsevier	2020	0	0	SLIET
hydroxyapatite	Sovan Lal	Scopus				
incorporated	Banerjee;					
polyurethane-	Vandana					
graphene oxide	Dhiman; Sanjay					
nanocomposite	Kumar Bhadada;					
porous scaffolds from	Priyatosh Sarkar;					
poly (ethylene	Moumita					
terephthalate) waste:	Khamrai;					
A green route toward	Kamlesh Kumari;					
bone tissue	Patit Paban					
engineering Tailoring of	Kundu,	lournal of Flashania Adatasi 1	2020	02	02	CLIET
Tailoring of	Anupma	Journal of Electronic Materials	2020	93	02	SLIET
Electromagnetic	Marwaha					
Absorption in	,Harsimrat Kaur,					
Substituted	,Charanjeet Singh					
Hexaferrites from 8.2	, Sukhleen					
GHz to 12.4 GHz	Bindra Narang,					
	Rajshree					
	Jotania, Yang Bai,					
	Sanjay R. Mishra,					
	Dharmendra					
	Singh, A.S.B.					

	Sombra, Madhav					
	Ghimire, And					
	Preksha Dhruv					
Optimized null	Anupma	Journal of Metrology and	2020	NIL	0	SLIET
steering in compact	Marwaha ,	Measurement Systems				
bowtie antenna array	Baljinder Kaur	, measurement systems				
using simulation	Buijinaer Rauf					
driven Taguchi						
method						
	Constitut David		2020	22	0	CLIET
Modelling and	Surekha Rani,	Journal of communication	2020	22	0	SLIET
simulation of vertical	Anupma	technology and electronics,				
fin style aluminium	Marwaha, Sanjay	Springer				
heat sink for	Marwaha					
controlled thermal						
compensation in						
absorber loaded						
antenna array						
Nanocomposite	Surekha Rani,	Current Nanoscience,	2020	40	0	SLIET
graphene based	Anupma	Bentham Science Publisher				
tunable absorber for	Marwaha, Sanjay				1	
combating	Marwaha					
electromagnetic						
pollution						
Graphene based	Gaurav Bansal,	Journal of Computational	2020	33	0	SLIET
Multiband Frequency	Anupma	Electronics				02.2.
Antipodal Vivaldi	Marwaha,	Liceromes				
Nanoantenna for UWB	Amanpreet					
Applications	Singh, Rajni					
Applications	Bala, Sanjay					
	Marwaha					
A triband slotted bow-		Optik	2019	57	6	SLIET
tie wideband THz	Gaurav Bansal,	Орик	2019	5/	В	SLIET
	Anupma					
antenna design using	Marwaha ,					
graphene for wireless	Amanpreet					
applications	Singh, Rajni Bala,					
	Sanjay Marwaha					
Investigation of	Harsimrat	Journal of Alloys and	2019	160	9	SLIET
structural, hysteresis	Kaurab,	Compounds				
and electromagnetic	AnupmaMarwah					
parameters for	aa,					
microwave absorption	CharanjeetSingh,				1	
application in doped	Sukhleen Bindra				1	
Ba–Sr hexagonal	Narang, Rajshree				1	
ferrites at X-band	Jotania, Silvia				1	
	Jacobo,				1	
	A.S.B.Sombra,				1	
	S.V.Trukhanov,				1	
	A.V.Trukhanov,				1	
	Preksha Dhruv				1	
Synthesis and	Surekha Rani,	Journal of Electronic Materials	2019	93	0	SLIET
Validation of a Cu	Anupma				1 -	
Meta-Based	Marwaha, Sanjay				1	
Wideband Microwave	Marwaha,				1	
Absorber on an	Sukhleen Bindra,				1	
Antenna Array	Murthy Chavali &				1	
Antenna Array	P. Narasimha					
					1	
Docian of titoution	Reddy	Ontical Fiber Technology	Marsh	го	24	CLIFT
Design of titanium	Veerpal Kaur and	Optical Fiber Technology	March	58	24	SLIET

_	T					1
nitride coated PCF-SPR	Surinder Singh		2019			
sensor for liquid						
sensing applications						
Design approach of	Veerpal Kaur and	Journal of Nanophotonic	May 2019	37	04	SLIET
solid-core photonic	Surinder Singh,					
crystal fiber sensor						
with sensing ring for						
blood component						
detection						
Possibilities of laser	Elena Anashkina,	Quantum Electronics	2019	43	04	SLIET
amplification and	Vitaly Dorofeev,					
measurement of the	S.V. Muravyev,					
field structure of	Sergei Motorin,					
ultrashort pulses in	Aleksei					
the range of 2.7 - 3 µm	Vyacheslavovich					
in erbium-ion-doped	Andrianov,					
tellurite glass fibres	Arseny A Sorokin,					
	Maksim Koptev,					
	Surinder Singh,					
Docian of VDM based	and Arkady Kim	Ontical and Quantum	2010	E /1	0	CLIET
Design of XPM based all optical contention	Dilbag Singh, Surinder Singh,	Optical and Quantum	2019	54	U	SLIET
detection circuit at	Vishal Sharma,					
120 Gbps"	Sukhbir Singh					
120 dups	_					
	and Quang Minh NGO,					
Design of all optical	Surinder Singh,	Optical Fiber Technology	2019	58	0	SLIET
contention detection	Dilbag Singh,	Optical Fiber Technology	2019	56	U	SLIET
circuit based on HNLF	Vishal Sharma,					
at the data rate of 120	Sukhbir Singh					
Gbps	and Quang Minh					
GDP3	NGO					
340-Gb/s PoISK-DP-	Sukhbir Singh,	Optical Fiber Technology	2019	58	02	SLIET
DQPSK optical	Surinder Singh,	Optical Fiber recimology	2013	30	02	SLILI
orthogonal	Quang Minh					
modulation format	NGO and Amin					
with coherent direct	Malekmohamma					
detection foe high	di,					
capacity WDM optical						
network"						
Reconstruction of	E. A. Anashkina,	Journal of Lightwave	2019	191	06	SLIET
optical pulse intensity	Maxim Koptev,	Technology				
and phase based on	Alexey					
SPM spectra	Andrianov, Vitaly					
measurements in	V. Dorofeev,					
microstructured	Surinder Singh,					
tellurite fiber in	Lovkesh Bhatia,					
telecommunication	Gerd Leuchs, and					
range.	Arkady Kim					
Design and analysis of	M Kumar, JS Ubhi	International Journal of	2019	49	02	SLIET
CNTFET based 10T		Circuit Theory and Application				
SRAM for high						
performance at						
nanoscale						
Low leakage zero	Candy Goyal,	Journal of nanoelectronics &	2019	21	0	SLIET
ground bounce noise	Jagpal Singh	optoelectronics				

	Т		1		1	
nanoscale full adder	Ubhi, and					
using source biasing	Balwinder Raj,					
technique						
A low leakage	Goyal C, Ubhi JS,	International journal of circuit	2019	49	01	SLIET
TG-CNTFET-based	Raj B	theory and applications				
inexact full adder for						
low power image						
processing						
applications.						
applications.						
A survey on QoS	Kaur, T. and	Wireless Networks	2020	85	08	SLIET
mechanisms in WSN	Kumar, D.					
for computational	,					
intelligence based						
routing protocol						
Touting protocor						
FPS-MAC: Fuzzy	Kaur, T. and	International Journal of	2020	44	0	SLIET
priority scheduling-	Kumar, D.	Communication Systems		1		
based MAC protocol	,			1		
for intelligent				1		
monitoring systems						
Noninvasive	Kumar,	Mapan - Journal of Metrology	2019	14	0	SLIET
Temperature	D., Suman, K.G.	Society of India	2013		"	JEILI
	D., Sulliali, K.G.	Society of Illula				
Measuring and Early						
Fault Detecting System						
for Manufacturing						
Industry						
Performance	Kumar, R., Kumar,	International Journal of	2019	44	0	SLIET
enhancement of	D., Kumar, D.	Communication Systems				
traffic information						
gathering (PEnTInG)						
algorithm for vehicular						
ad-hoc networks						
ETPS-MAC: Energy	Kaur, T., Kumar,	International Journal of	2019	49	01	SLIET
Traffic Priority	D.	Electronics				
Scheduling-based	J.	Licetionies				
QoS-aware MAC						
protocol for						
hierarchical WSNs						
meraremear vvoivo	Kaur, T. and	International Journal of	2019	17	05	SLIET
	Kumar, D.	Wireless and Mobile				
	Namai, D.	Computing		1		
QoS mechanisms for	Kaur, T. and	IET Communications	2019	58	03	SLIET
		IET COMMUNICATIONS	2019	36	03	JLIE I
MAC protocols in	Kumar, D.					
wireless sensor				1		
networks: A survey			2015		101	61.15=
Hybrid intelligence	Kaur, T. and	International Journal of	2019	05	01	SLIET
based routing	Kumar, D.	Sensors, Wireless		1		
protocols in wireless		Communications and Control				
sensor networks: A				1		
survey						
On the Design of a	Monika Aggarwal	Applied Computational	2019	28	0	SLIET
Novel Fractal Antenna	and Amar Partap	Electromagnetics Society		1		
for Spectrum Sensing	Singh Pharwaha	Journal (ACES)				
in Cognitive Radio		, ,				
On the development	Gurmeet Singh,	Advanced Electromagnetics	2019	11	1	SLIET
of a modified	AP Singh			1		
	1	I	I.		1	1

Triangular patch arterna array for 4.9 GHz Public Safety MAN							
GHz Public Safety WLAN On the Design of 2×2 MIMO Fractal Antenna Array for C band Exploring Engineering) Design of micro-machined modified Sierpinski gasket fractal antenna for satellite communications Detection of Foreign Materials in Wheat Kernels using Regional Texture Descriptors Machine vision based detection of foreign Materials in Wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna Applications Multi response Dr.P.K. Singh Material Today Dr. P.K. Singh Material Today Dr. P.K. Singh Material Today Dr. Dr. SLIET SLIET SUBST On SLIET On SLIET SLIET On SLIET SLIET SUBST On SLIET On SLIET On SLIET On SLIET SLIET SUBST On SLIET On SL	Triangular patch						
MULAN On the Design of 2×2 Gurmeet Singh, A.P. Singh A.P. Si	antenna array for 4.9						
On the Design of 2×2 MIMO Fractal Antenna A.P. Singh Exploring Engineering Singh Exploring Engineering Singh Exploring Engineering Singh Exploring Engineering Singh	GHz Public Safety						
MIMO Fractal Antenna Array for C band applications Design of micro-machined modified Sierpinski gasket fractal antenna for satellite communications Detection of Foreign Materials in Wheat Kernels using Regional Texture Descriptors Matchine vision based detection of foreign material in wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using shape and size descriptors Detection of Foreign Material in wheat Kernels using Boundary Descriptors Detection of Foreign Material in wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Development of a Miltimand Applications Divide and A. P. Divide and A. P. Singh Material Today Divide Texture Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Divide Texture Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Divide Texture Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Divide Texture Descriptors Divide Texture Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Divide Texture Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Divide Texture Descriptors Descriptor Descriptors Divide Texture Descriptor De	WLAN						
Array for C band applications Design of micro-machined modified Sierpinski gasket fractal antenna for satellite communications Detection of Foreign Materials in Wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using Singh Material Today Detection of Groeign Material in Wheat Kernels using Singh Material Today Detection of Groeign Material Today Detection of Groeign Material Today Detection of Foreign Materials in Wheat Kernels using shape and size descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRAA, Optimization of Surface and Dr. P.K. Singh Material Today Exploring Engineering) International Journal of Recent Technology and Engineering (JJITEE) International Journal of 2019 17 0 SLIET 2019 17 0 SLIET 2019 2019 2019 2019 2019 2019 2019 2019	On the Design of 2×2	Gurmeet Singh,	Jounal (International Journal	2019	40	0	SLIET
Applications Design of micro-machined modified Sierpinski gasket fractal antenna for satellite communications N. Julka and A. P. Singh	MIMO Fractal Antenna	A.P. Singh	of Innovative Technology and				
Applications Design of micro-machined modified Sierpinski gasket fractal antenna for satellite communications N. Julka and A. P. Singh Singh N. Julka and A. P. Singh Sing	Array for C band	_	Exploring Engineering)				
Design of micro-machined modified Sierpinski gasket fractal antenna for satellite communications Detection of Foreign Materials in Wheat Kernels using Regional Texture Descriptors N. Julka and A. P. Singh International Journal of Recent Technology and Engineering Singh Recent Technology and Engineering Technology	•						
micro-machined modified Sierpinski gasket fractal antenna for satellite communications Detection of Foreign Materials in Wheat Kernels using Regional Texture Descriptors Machine vision based detection of foreign material in wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors N. Julka and A. P. Singh Sin		Ashish Kumar.	International Journal of RF	2019	36	4	SLIET
modified Sierpinski gasket fractal antenna for satellite communications Detection of Foreign Materials in Wheat Kernels using Regional Texture Descriptors Machine vision based detection of foreign material in wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using shape and size descriptors N. Julka and A. P. Singh Singh Pharwaha for Multiband Applications Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of Surface roughness and surface roughne	-	· ·					
gasket fractal antenna for satellite communications Detection of Foreign Materials in Wheat Kernels using Regional Texture Descriptors Machine vision based detection of foreign material in wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of Surface roughness and		·					
Tor satellite communications Detection of Foreign Materials in Wheat Kernels using Regional Texture Descriptors Machine vision based detection of foreign material in wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of Surface roughness and Singh Material Today Dr. P.K. Singh Material Today 2020 159 159 159		J					
Communications Detection of Foreign Material in wheat Kernels using Regional Texture Descriptors Singh Singh Engineering N. Julka and A. P. Singh Engineering Singh Engineering Singh	=						
Detection of Foreign Materials in Wheat Kernels using Regional Texture Descriptors Machine vision based detection of foreign material in wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of Sunday Descriptors N. Julka and A. P. Singh Advanced Science and Technology International Journal of Advanced Science and Technology 17 0 SLIET 2019 17 0 SLIET 2020 40 0 SLIET 18 Julka and A. P. Singh Advanced Science and Technology and Exploring Engineering (IJITEE) Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of Sunday Dr. P.K. Singh Material Today Dr. P.K. Singh							
Materials in Wheat Kernels using Regional Texture Descriptors Machine vision based detection of foreign material in wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using shape and size descriptors N. Julka and A. P. Singh Advanced Science and Technology Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of Singh Material Today Singh Material Today N. Julka and A. P. International Journal of Advanced Science and Technology International Journal of Possible Properties and Prope		N Julka and Δ P	International Journal of	2019	17	0	SLIFT
Engineering Engineering Engineering Engineering	_			2013	1/		JEILI
Texture Descriptors Machine vision based detection of foreign material in wheat Kernels using shape and size descriptors N. Julka and A. P. Singh Material Journal of Technology		Jiligii					
Machine vision based detection of foreign material in wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of Sunday State Singh SLIET International Journal of Advanced Science and Technology International Journal of Advanced Science and Technology International Journal of 2020 40 0 SLIET SLIET Sunday Su			Liigilieeriiig				
detection of foreign material in wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Singh Material Today Advanced Science and Technology Advanced Science and Technology International Journal of International Journal of Innovative Technology and Exploring Engineering (IJITEE) ETE Journal of Research 2020 22 0 SLIET SLIET Advanced Science and Technology 40 0 SLIET SLIET About 1 SLIET SLIET Optimization of SILIET Optimization of SILIET Material Today Dr. P.K. Singh	lexture Descriptors						
detection of foreign material in wheat Kernels using shape and size descriptors Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Singh Material Today Advanced Science and Technology Advanced Science and Technology International Journal of International Journal of Innovative Technology and Exploring Engineering (IJITEE) ETE Journal of Research 2020 22 0 SLIET SLIET Advanced Science and Technology 40 0 SLIET SLIET About 1 SLIET SLIET Optimization of SILIET Optimization of SILIET Material Today Dr. P.K. Singh	Machine vision based	N Julka and A D	International Journal of	2010	17	0	CLIET
material in wheat Kernels using shape and size descriptors N. Julka and A. P. Singh Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Technology International Journal of Intern				2013	''		JLIET
N. Julka and A. P. International Journal of 2020 40 0 SLIET	_	Singn					
Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and			rechnology				
Detection of Foreign Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of Surface roughness and							
Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Singh Innovative Technology and Exploring Engineering (IJITEE) IETE Journal of Research 2020 22 0 SLIET Material Today Dr. P.K. Singh Material Today Dr. P.K. Singh Material Today 2020 02 SLIET O1 SLIET	and size descriptors						
Materials in Wheat Kernels using Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Singh Innovative Technology and Exploring Engineering (IJITEE) IETE Journal of Research 2020 22 0 SLIET Material Today Dr. P.K. Singh Material Today Dr. P.K. Singh Material Today 2020 02 SLIET O1 SLIET	Detection of Foreign	N. Julka and A. D.	International Journal of	2020	40	0	CLIET
Exploring Engineering (IJITEE)	_			2020	40	U	SLIET
Boundary Descriptors Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Ashwini Kumar, Amar Partap Singh Pharwaha IETE Journal of Research 2020 22 0 SLIET Optimization of CNC 159 Dr. P.K. Singh Material Today 2020 159 O1 SLIET		Singn					
Development of a Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Development of a Ashwini Kumar, Amar Partap Singh Pharwaha IETE Journal of Research Dr. P.K. Singh Material Today	•		Exploring Engineering (IJITEE)				
Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Amar Partap Singh Pharwaha Material Today Dr.P.K. Singh Material Today 2020 159 02 SLIET 159 01 SLIET	Boundary Descriptors						
Modified Hilbert Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Amar Partap Singh Pharwaha Material Today Dr.P.K. Singh Material Today 2020 159 02 SLIET 159 01 SLIET	Develonment of a	Ashwini Kumar	IETE Journal of Research	2020	22	0	SLIFT
Curve Fractal Antenna for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Dr. P.K. Singh Material Today 2020 02 SLIET 159 159	•	1	TETE Journal of Research	2020			JEILI
for Multiband Applications Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Dr. P.K. Singh Material Today Material Today 2020 159 O2 SLIET 159 O2 SLIET 159 O2 SLIET 159 O2 SLIET 159		· ·					
Applications Multi response Or.P.K. Singh Material Today Optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Dr. P.K. Singh Material Today Material Today Dr. P.K. Singh Material Today		Singii Filai walia					
Multi response optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and							
optimization of CNC end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Dr. P.K. Singh Material Today 159 159 159 159 159		Dr.D.V. Singh	Material Today	2020		02	CLIET
end milling of AISI H11 alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Dr. P.K. Singh Material Today 159 O1 SLIET		Di.P.N. Siligii	Waterial Today	2020	150	02	JLILI
alloy steel for rough and finish machining using TGRA, Optimization of surface roughness and Dr. P.K. Singh Material Today 2020 01 SLIET	-				159		
and finish machining using TGRA, Optimization of surface roughness and Dr. P.K. Singh Material Today 2020 01 SLIET	=						
using TGRA, Dr. P.K. Singh Material Today 2020 01 SLIET surface roughness and 159							
Optimization of surface roughness and Dr. P.K. Singh Material Today 2020 01 SLIET	=						
surface roughness and 159		Dr DK Cinch	Material Today	2020	-	01	CLIET
		Dr. P.K. Singn	iviateriai ioday	2020	450	01	SLIET
noie diameter	_				159		
accuracy in drilling of							
EN-31 alloy steel—A							
TGRA based analysis		D. D. C.	Managiral To 1	2010	+	0	CLIET
Investigation of Dr. P.K. Singh Material Today 2019 0 SLIET	_	Dr. P.K. Singh	iviateriai ioday	2019	450	U	SLIET
Tribological Behavior	_				159		
of Al-4032 Based							
Metal Matrix							
Composite using	-				1		
Taguchi's Optimization							
Approach, Materials			l				
Microstructural and Dr.P.K. Singh Material Today 2019 0 SLIET		Dr.P.K. Singh	Material Today	2019		0	SLIET
	Mechanical				159		
	Characterization of Al-				I		
Mechanical 159 Characterization of Al- 4032 Based Metal							

Matrix Composites,						
Investigation of wear	Dr.P.K. Singh	Material Today	2019		0	SLIET
characteristics of Al-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		159	_	
4032 based metal						
matrix composite						
using Taguchi's						
optimization						
approach,						
Influence of different	Dr.A.S. Shahi	Journal of Materials	2019	164	02	SLIET
filler weld wire						
chemistries on						
metallurgical and						
mechanical behavior						
of ultrahigh strength						
steel welded joints",						
Metallurgical and	Dr.A.S.Shahi	Journal of manufacturing	2020	46	01	SLIET
corrosion		Process				
characterization of						
electron beam welded						
duplex stainless steel						
joints						
Weld metal	Dr.A.S.Shahi	IOP	2019	70	01	SLIET
composition and aging						
influence on						
metallurgical,						
corrosion and fatigue						
crack growth behavior						
of austenitic stainless						
steel welds.						
Metallurgical, fatigue	Dr.A.S.Shahi	Springer	2020	41	01	SLIET
and pitting corrosion						
behavior of AISI 316						
joints welded with Nb						
based stabilized steel						
filler						
Influence of	Dr.M.Majid	IOP	2020	70	01	SLIET
intermetallic						
precipitation on						
metallurgical,						
mechanical and pitting						
behavior of AISI 2205						
duplex stainless steel						
welded joints,				<u> </u>		ļ
Investigations on High	Dr.A.S.Shahi	IOP	2020	70	0	SLIET
Temperature Wear						
And Metallurgical						
Characteristics Of						
Stellite 6 GTA (Gas						
Tungsten Arc) Weld						
Claddings, Mater	5.4.	1. 1	2000		<u> </u>	
Optimization of	Dr.A.jayant	Indian Journal of Engineering	2020	28	0	SLIET
l -	I	& Materials Sciences				
Turning Parameters of					i contract of the contract of	ī
Titanium Chrome-						
Titanium Chrome- moly (Ti-Cr-Mo) Alloy						
Titanium Chrome- moly (Ti-Cr-Mo) Alloy using Taguchi Method			2022			61:57
Titanium Chrome- moly (Ti-Cr-Mo) Alloy using Taguchi Method Decision Support	Dr.A.Jayant	Springer, Cham (Scopus).	2020	41	0	SLIET
Titanium Chrome- moly (Ti-Cr-Mo) Alloy using Taguchi Method	Dr.A.Jayant	Springer, Cham (Scopus).	2020	41	0	SLIET

Green Supply Chain Management Practices						
A robust hybrid multi- criteria decision- making approach for selection of third- party reverse logistics service provider	Dr.A.Jayant	Springer,	2019	41	0	SLIET
Application of Machine Learning Technique for demand forecasting: A Case Study of manufacturing industry	Dr.A.Jayant	Springer,	2019	41	0	SLIET
Low Carbon Supply Chain Management: A Fuzzy-DEMATEL Analysis of Some Practical Issues of Indian Manufacturing Industries	Dr.A.Jayant	Springer,	2019	41	0	SLIET
A novel hybrid MCDM approach based on DEMATEL, AHP and TOPSIS to evaluate green suppliers	Dr.A. Jayant	IOP	2019	70	0	SLIET
Sustainable supplier selection for battery manufacturing industry: A MOORA and WASPAS Based Approach	Dr.A. Jayant	IOP Journal of Physics	2019	70	0	SLIET
An Intelligent Simulation based case study of Indian Micro Small Medium Enterprise (MSME) of farm equipment Manufacturing	Dr.A.Jayant	IOP Journal of Physics	2019	70	0	SLIET
Simulation based design of Production and Multi echelon supply chain network for job shop manufacturing environment	Dr.A.Jayant	IOP Journal of Physics	2019	70	01	SLIET
High temperature corrosion performance of ceria doped Cr3C2-NiCr coated superalloys under actual medical waste atmosphere	Er. Lalit Ahuja	Materials Today	2020	27	0	SLIET
Evaluation of high temperature oxidation performance of bare	Lalit Ahuja	Materials Today	2020	27	0	SLIET

and coated T91 steel,						
Arduino Based	Dr.Sunil kumar	Universal Journal of	2019	02	0	SLIET
Economic and Real	Di.Saiii kaiilai	Mechanical Engineering	2013	02		JEIE!
Time Consumption		Weenamed Engineering				
Rate Computing						
Signal Processing for	Dr.Rajesh Kumar		2020		03	SLIET
Enhancing	Di.Najesii Kuillai		2020		03	JEILI
Impulsiveness Toward						
Estimating Location of						
Multiple Roller Defects						
in a Taper Roller						
Bearing"						
Worm and wheel	Dr.Rajesh kumar	IOP Journal of Physics	2019	70	0	SLIET
gears fault frequency						
extraction using						
minimum entropy						
deconvolution based						
envelope of the						
vibration signal,						
Development of	Dr.Kulwant Singh	Journal of Advanced	2020	16	0	SLIET
exothermic flux for		Manufacturing Systems,				
enhanced penetration						
for submerged arc						
welding process						
Some feasible studies	Dr.Kulwant Singh	Journal of Advanced	2020	16	0	SLIET
for recycling of steel		Manufacturing Systems,				
slag as a useful flux for		inananasan ng systems,				
submerged arc						
welding						
Some studies into	Dr.Shankar Singh	Material Today	2020	27	0	SLIET
weldability of rice	Di.Silalikai Siligii	Waterial loday	2020	27	0	JEILI
husk ash aluminium						
matrix composite						
using TIG welding,	5.546		2000			SUIET.
Assessment of Creep	Dr.R.K.Saxsena	Material Today	2020	27	0	SLIET
in Composite Disc						
having Exponential,						
Hyperbolic and						
Uniform Thickness						
Profiles						
Finite element	Dr.R.K.Saxsena	Material Today	2020	27	0	SLIET
simulation of Stress						
Corrosion cracking in						
Austenitic Stainless						
Steel using Modified						
Lemaitre Damage						
Model						
An examination of	Dr.R.K.Saxsena	Material Today	2020	27	0	SLIET
mechanical properties						
of dissimilar AISI 304						
stainless steel and						
copper weldment						
obtained using GTAW						
Analysis of joint	Dr.R.K. Saxsena	Material Today	2020	27	0	SLIET
overlap during friction	Dim.in. Jansella	iviaterial loday	2020	'		JULI
Section during inclidit		I		I	1	1
anin welding of						
spin welding of plastics						

Determination of	Dr.R.K Saxsena	Material Today	2020	27	0	SLIET
Johnson-Cook		,				
material model for						
weldment of mild						
steel						
Numerical simulation	Dr.R.K. Saxsena	Material Today	2020	27	0	SLIET
of fracture behavior		,				
under high-velocity						
impact for Aluminium						
alloy 6060 Target plate						
Prediction of bending	Dr.R.K. Saxsena	Material Today	2020	27	0	SLIET
behaviour for Laser			1 -0 - 0			52.2.
Forming of Lime						
coated plain Carbon						
steel using Finite						
Element Method						
An Experimental	Dr.R.K.	IOP Journal of Physics	2019	70	0	SLIET
investigation into heat	Yadav	Tot Journal of Frigings	2013	/ /		JEILI
transfer characteristics	ladav					
of Cu nanofluid for						
automobile radiator						
Multi-response	Dr.P.K. Singh	IOP Journal of Physics	2019	70	02	SLIET
•	DI.P.N. SILIGII	TOP Journal of Physics	2019	/0	02	SLIET
Optimization using						
TGRA for End Milling						
of AISI H11 Steel Alloy						
Using Carbide End Mill	5.50		2040	1.5		CLIET
Manufacturing	Dr.P.Gupta	International Journal of	2019	16	0	SLIET
Excellence through		Mechanical and Production				
Total Productive		Engineering				
Maintenance						
Implementation in an						
Indian Industry				-		
Fabrication of μ-	Dr.P.Gupta	International Journal of	2019	16	0	SLIET
Channels on Pure-		Mechanical and Production				
Ti using USM and		Engineering				
Optimization of						
Process Parameters						
Performance and	Dr.P.Gupta	Springer Proceeding Lecture	2019	41	0	SLIET
Emission testing of		Notes in Mechanical				
Diesel Engine using		Engineering				
blends of Biodiesel						
from Castor Oil and						
Neem Oil prepared						
using Lithium						
Doped CaO Nano-						
Catalyst						
Identifying the most	Dr.P.Gupta	Proceedings of the	2020		0	SLIET
influencing success		International Conference on				
factors of TQM		Industrial Engineering and				
implementation in		Operations Management				
manufacturing		Dubai				
industries using						
Analytical Hierarchy						
Process						
To Investigate the	Dr.P.Gupta	Proceedings of the	2020		0	SLIET
Relationship between		International Conference on				
TQM Enablers		Industrial Engineering and				
Applicable In Indian	1	Operations Management		1		

Engineering		Dubai				
Educational Institutes Hybrid Response Surface Method- African Buffalo Optimization Technique for Ultrasonic Production of Biodiesel from Waste Cooking Oil using Li doped CaO Nanocataly s	Dr.P.Gupta	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2020	40	0	SLIET
Composite approach of RSM-ABO for optimization of production of Ricinus Communis bio diesel using Lithium doped CaO Nanocataly s	Dr.P.Gupta	International journal of advances in Science and Technology	2020	17	0	SLIET
Case Study on Business Excellence Issues of an Indian Automobile Manufacturer using SAP-LAP Framework	Dr.P.Gupta	International Journal on Emerging Technologies	2020	03	0	SLIET
Multi-Objective Optimization of Electro Discharge Machining of Nimonic 75 Using Taguchi Based Grey Relational Analysis	Dr.Shankar singh	Journal of Advanced Manufacturing Systems	2020	14	0	SLIET
Multi-objective optimization of Electrical Discharge Machining of Nimonic 75 using Teaching Learning Based Optimization(TLBO) Algorithm	Dr.Shankar singh	Materials Today	2020	27	0	SLIET
An Exploratory Investigation and Optimization of Taper Cutting Operation with Wire Electro Discharge Machining	Dr.Shankar singh		2020		0	SLIET
Support Vector Machine Model for Demand Forecasting in an Automobile parts industry:	Dr.A.Jayant	International Research Journal of Science, Engineering and Technology	2019	24	0	SLIET
Application of Machine Learning Techniques in Supply Chain Management	Dr.A.Jayant	International Research Journal of Management Sciences & Technology	2019	24	0	SLIET

Evaluating Low Carbon Supply Chain Practices in India using Fuzzy Tool based Importance and Performance Analysis	Dr.A.Jayant	Journal of Energy, Environment & Carbon Credits	2019	26	0	SLIET
Electro Discharge Drilling (EDD) of Rice Husk Ash Reinforced Aluminium Matrix Composite Using Different Electrode Shapes	Dr.Shankar Singh	Journal of Emerging Technologies and Innovative Research	2019	03	0	SLIET
Some studies into Slicing of Titanium alloy using Wire Electro-Discharge Machining Process	Dr.Shankar Singh	Journal of Emerging Technologies and Innovative Research	2019	03	0	SLIET
Effect of post weld thermal aging (PWTA) sensitization on micro- hardness and corrosion behavior of AISI 304 weld joints	,AS Shahi	Journal of Physics:	2019	70	5	SLIET
Sensitization Studies on the Metallurgical and Corrosion Behaviour of AISI 304 SS Welds M Kumar, A Sharma, AS Shahi	AS Shahi	Advances in Manufacturing Processes	2019	18	2	SLIET
Metallurgical, impact and fatigue performance of electron beam welded duplex stainless steel joints	AS Shahi	Journal of Materials Processing Technology	2019	173	4	SLIET
Erosion Behavior of Hydrophobic Polytetrafluoroethylen e (PTFE) Coatings with Different Thicknesses'	Er.Anuj Bansal	Journal of manufacturing Process	2020	46	0	SLIET
Influence of Cryogenic Treatment on Mechanical Performance of Friction Stir Al-Zn-Cu Alloy Weldments	Er.Anuj Bansal	Journal of manufacturing Process	2020	46	0	SLIET
Laser Cladding Technique for Erosive Wear Applications:	Er.Anuj Bansal	Journal of manufacturing Process	2020	46	02	SLIET
Slurry Erosion Behavior of HVOF- Sprayed Wc-10Co-4cr Coated SS 316 Steel	Er.Anuj Bansal	Journal of Thermal spray Technology	2019	80	01	SLIET

with and without PTFE						
Modification A novel health indicator developed	Dr.Anil Singla	Journal of Risk and Reliability	2020	26	0	SLIET
using filter-based feature selection						
algorithm for the identification of rotor						
defects" Proceedings						
of the Institution of Mechanical Engineers						
Part O						
Bearing defect size	Dr.Anil Singla	Alexandria Engineering	2020	46	0	SLIET
assessment using wavelet transform		Journal (Elsevier				
based Deep						
Convolutional Neural						
Network (DCNN Development of LDA	Dr.Anil Singla	Springer	2019	41	0	SLIET
Based Indicator for the	DI.AIIII SIIIgia	Springer	2019	41		SLIET
Detection of						
Unbalance and						
Misalignment at Different Shaft Speeds						
Abrasive wear	Dr.Anil Singla	SCIE	2019		0	SLIET
behavior of cryogenically treated						
Boron Steel (30						
MnCrB4) used in						
rotavator blades,						
Influences of Latent Heat on Temperature	Dr.R.K.Saxsena	Defense Science Journal	2020	30	0	SLIET
Field, Weld Bead						
Dimensions and						
Melting Efficiency						
During Welding Simulation						
Creep Response of	Dr.R.K.Saxsena	Defense Science Journal	2020	30	0	SLIET
Rotating Composite						
Discs having						
Exponential, Hyperbolic, Linear and						
Constant Thickness						
Profiles						
Sustainability and machinability	Dr.Anil Singla	Journal of Cleaner production	2020	173	07	SLIET
improvement of						
Nimonic-90 using						
indigenously						
developed green hybrid machining						
technology						
Impact of Cryogenic	Dr.Anil Singla	Journal of Materials	2020	59	03	SLIET
Treatment on HCF and		Engineering and Performance				
FCP Performance of β- Solution Treated Ti-						
6Al-4V ELI Biomaterial						
Machinability	Dr.Anil Singla	International Journal of	2020	20	05	SLIET

investigations of		Advanced Manufacturing				
hardened steel with		Technology				
biodegradable oil-						
based MQL spray						
system						
Impact of Cryogenic	Dr.Anil Singla	Journal of Materials	2019	59	03	SLIET
Treatment on		Engineering and Performance				
Mechanical Behavior						
and Microstructure of						
Ti-6Al-4V ELI						
Biomaterial						
Parametric	Dr.P.Gupta	ESCI Indexed Journal	2020	19	0	SLIET
optimization of USM						
parameters by Taguchi						
and NSGA-II for the						
development of μ-						
channels on pure						
titanium. Grey						
Systems: Theory and						
Application	D#DC:::t=	CDDINGED	2020	0.4	0	CLIET
Modelling and	Dr.P.Gupta	SPRINGER	2020	41	0	SLIET
optimization of novel						
biodiesel production from non-edible oil						
with musa balbisiana r						
oot using hybrid response surface						
methodology along						
with african buffalo						
optimization						
Physicochemical,	Nisar A. Mir,	Food Hydrocolloids	2019	2	14	SLIET
molecular and thermal	Charanjit S. Riar,	. coa riyaroconolas	2013	_		JEILI
properties of high-	Sukhcharn Singh					
intensity ultrasound	Jakinenam Jingii					
(HIUS) treated protein						
isolates from album						
(Chenopodium album)						
seed.						
Effect of chemical	Farhan	Food Chemistry	2019	1	03	SLIET,
composition, granule	Mohiuddin Bhat,	,				Longowal
structure and	Charanjit Singh					
crystalline form of	Riar					
pigmented rice						
starches on their						
functional						
characteristics				L		
Structural	Nisar A. Mir,	Ultrasonics–Sonochemistry	2019	1	09	SLIET,
modification of quinoa	Charanjit S. Riar,					Longowal
seed protein isolates	Sukhcharn Singh					
(QPIs) by variabletime						
sonification for						
improving its						
physicochemical and						
functional						
characteristics,						
Sensory, rheological	l	1 (5 16)	2010		08	SLIET,
	Ramandeep Kaur,	Journal of Food Science and	2019	1	00	
and chemical characteristics during	Charanjit S. Riar	Technology	2019	1	08	Longowal

storage of set type full						
fat yoghurt fortified						
with barley β-glucan,						
Composition and	Mamta Thakur	Trends in Food Science &	2020	2		SLIET,
functionality of bee	and Vikas Nanda	Technology				Longowal
pollen: A review,						
Sugar profile and	Rajni Kamboj,	Journal of Food Science and	2020	1		SLIET,
rheological behaviour	Gulzar Ahmad	Technology				Longowal
of four different Indian	Nayik, Manav	Teamology				
honey varieties.	Bandhu Bera,					
Tioney varieties.	Vikas Nanda					
Analysis of	Rishi Rabindra	Food Chemistry	2019	1		SLIET,
crystallization	Naik, Mamta	Tood Chemistry	2013			Longowal
phenomenon in Indian	Thakur and Vikas					
honey using molecular	Nanda					
_	Nanua					
dynamics simulations and artificial neural						
network.	Laborat NA ''' I	Lavoral of Facility	2010	-	1	SLIET,
Moisture sorption	Ishrat Majid,	Journal of Food Measurement	2019	0		Longowal
isotherms and quality	Shafat Hussain	and Characterization				Longowan
characteristics of	and Vikas Nanda					
onion powder during						
storage as affected by						
sprouting.						
Impact of sprouting on	Ishrat Majid,	Journal of Food Processing	2019	1		SLIET,
the degradation	Shafat Hussain	and Preservation.				Longowal
kinetics of color and	and Vikas Nanda					
vitamin C of onion						
powder packaged in						
different packaging						
materials.						
Unmasking the Many	Verma, D. K.,	Current Pharmaceutical	2020	0	0	SLIET,
Faces of Giloy	Kimmy, G.,	Design.				Longowal
(Tinospora cordifolia	Kumar, P. and El-					
L.): A Fresh Look on its	Shazly, M.					
Phytochemical and						
Medicinal Properties.						
Exploring the	Indu Bharti,	LWT-Food Sci. & Technology	2019	1	03	SLIET,
influence of heat	Sukhcharn Singh,					Longowal
moisture treatment on	DC Saxena,					
physicochemical,						
pasting, structural and						
morphological						
properties of mango						
kernel starches from					1	
Indian cultivars,						
Experimental and	Mamta	International Journal of			1	SLIET,
1 · · · · · ·						Longowal
modeling studies of	Bhardwaj,	Biological Macromolecules,				
the flow, dynamic and	Kawaljit Singh					
creep recovery	Sandhu, DC					
properties of pearl	Saxena,					
millet starch as						
affected by						
concentration and						
cultivar type,					1	
Valuation of Citrus	A. Saini, Parmjit	Biomass Conv. Bioref.	2020	1	04	SLIET,
reticulata (kinnow)	S. Panesar, M.B.				1	Longowal
peel for the extraction	Bera					

of lutein using						
ultrasonication						
technique.						
Recent trends on the	Divyani Panwar,	Food Reviews International	2019	1	3	SLIET,
valorization strategies	Parmjit S.					Longowal
for the management	Panesar & Harish					
of citrus by-products,	K. Chopra					
L(+) lactic acid	Avinash Thakur,	Waste and Biomass	2019	1	8	SLIET,
production by	Parmjit S.	Valorization				Longowal
immobilized	Panesar and					
Lactobacillus casei	Manohar S. Saini					
using low cost agro-						
industrial waste as						
carbon and nitrogen						
source.						
A comparative study	Anil Kumar,	Separation and Purification	2019	2	10	SLIET,
on experimental and	Avinash Thakur	Technology	2013		1 10	Longowal
response surface	and Parmjit S.	recimology				
optimization of lactic	Panesar					
acid synergistic	Failesai					
extraction using green						
emulsion liquid						
membrane.						
Peroxidase as	Suheela Bhat,	Journal of Food Processing	2019	0	0	SLIET,
indicator enzyme of	Charanjiv Singh	and Preservation	2019	0	0	Longowal
blanching in bottle	Saini, Manish	and Freservation				
gourd (<i>Lagenaria</i>	Kumar and					
siceraria): Changes in	Harish Kumar					
enzyme activity, color,	Sharma. 2019.					
and morphological	311d1111d. 2013.					
properties during						
blanching.						
Algorithm for	P.S. Minz, Ish	Measurement,	2020	0	0	SLIET,
processing high	Kumar Sawhney	ivicusurement,	2020	١	ľ	Longowal
definition images for	and Charanjiv					
food colourimetry.	Singh Saini.					
A Comparative Study	A. Saini, Parmjit	Current Research in Nutrition	2019	1	4	SLIET,
on the extraction and	S. Panesar, M.B.	and Food Science,	2013	-	-	Longowal
quantification of	Bera.	and rood science,				
polyphenols from	20.0.					
citrus peels using						
maceration and						
ultrasonic technique.						
A comparative study	Anil Kumar,	Separation and Purification	2019	2	10	SLIET,
on experimental and	Avinash Thakur	Technology,	1	-		Longowal
response surface	and Parmjit S.]				
optimization of lactic	Panesar					
acid synergistic						
extraction using green						
emulsion liquid						
membrane.						
Classification,	Farhan	Journal of Pharmacy and	2019	0	0	SLIET,
Functional Properties	Mohiuddin Bhat,	Pharmaceutical Research,				Longowal
and Health Related	Shruti Chandel,	ĺ				
Issues Associated with	Sangita Sood,					
Consumption of Fats:	Yadvinder S					
A Review,	Dhaliwal,					
International	Charanjit S Riar		<u> </u>			

Effects of Milling on the Bran Removal,	Bhat FM, Riar CS	Food Science and Nutrition Technology	2019	01	01	SLIET, Longowa
Nutritional and	and Sangita S	lecinology				
Cooking						
Characteristics of						
Traditional Rice						
Cultivars,						
Formulation and	Mandeep Singh	Legume Science	2020	01	01	SLIET,
characterization of	Sibian, Charanjit	Leguine Science	2020	01	01	Longowa
cookies prepared from	Singh Riar.					
the composite flour of	Jiligii Mai.					
germinated kidney						
bean, chickpea, and						
wheat,						
•	Cooma Charma	Annals Food Science and	2020	01	01	SLIET,
Effect of storage	Seema Sharma,	Annals. Food Science and	2020	01	01	Longowa
period and packaging	Charanjit S Riar	Technology				
materials on textural,						
phenolic, antioxidant						
properties of cookies						
made from raw and						
germinated minor						
millet blends flour.			2010		+	SLIET,
Bioactive compounds	A. Saini, Divyani	Austin Journal of Nutrition	2019	0	0	Longowa
from cereal and pulse	Panwar, Parmjit	and Metabolism,				2080
processing byproducts	S. Panesar, M.B.					
and their potential	Bera					
health benefits.				_		SLIET,
Kinetic study of	Jasmeet Kour,	British Food Journal,	2019	0	0	Longowa
extrusion cooking of	Sukhcharn Singh,					2060
corn-rice flour blend	Dharmesh C					
fortified with	Saxena					
nutraceutical						
concentrates with						
respect to various						
physical parameters,	A) 1 1/	A: 1 1 CD: 0.5 1	2020			SLIET,
Tensile Strength and	Narender Kumar	Asian Journal of Dairy & Food	2020	0	0	Longowa
Solubility Studies of	Chandla, Sunil	Research				
Edible Biodegradable	Kumar Khatkar,					
Films Developed from	Sukhcharn Singh,					
Pseudo-cereal	DC Saxena,					
Starches: An Inclusive	Navdeep Jindal,					
Comparison with	Venus Bansal,					
Commercial Corn	Nitin Wakchaure,					
Starch,	Ambi Classila DO	Lavorania of Advisorania in Trans	2010	01	04	SLIET,
Quality attributes of	Arti Chauhan, DC	Journal of Advances in Food	2019	01	01	Longowa
germinated amaranth	Saxena,	Science & Technology,				
flour pasta	Sukhcharn Singh,					
supplemented with						
different						
hydrocolloids,	ID Charres D	Computational and Acutical	2020	—		SLIET,
On a reduced cost	JR Sharma, D	Computational and Applied	2020	0	0	Longowa
derivative-free higher-	Kumar	Mathematics				201180
order numerical						
algorithm for						
nonlinear systems	ID CI		0000	-	1	CULT
On derivative free	JR Sharma, S	Mathematics	2020	0	0	SLIET, Longowa
multiple-root finders	Kumar, L Jäntschi					Longowa
with optimal fourth		1	1	1		1

order convergence						
An optimal fourth	S Kumar, D	Symmetry	2020	1	2	SLIET,
order derivative-free	Kumar, JR					Longowal
numerical algorithm	Sharma, C					
for multiple roots	Cesarano, P					
	Agarwal, YM Chu					
On the local	IK Argyros, JR	Annales Univ. Sci. Budapest	2019	0	0	SLIET,
convergence and	Sharma, S Kumar					Longowal
complex geometry of						
eighth order iteration						
function						
Optimal one-point	D Kumar, JR	Mathematics	2020	0	0	SLIET,
iterative function free	Sharma, IK					Longowal
from derivatives for	Argyros					
multiple roots						
Local convergence of	JR Sharma, S	Algorithms	2020	0	0	SLIET,
an efficient multipoint	Kumar, IK Argyros					Longowal
iterative method in						
Banach space						
Local convergence and	JR Sharma, D	Mathematics	2019	0	0	SLIET,
attraction basins of	Kumar, IK Argyros					Longowal
higher order, Jarratt-	, 5,					
like iterations						
On a class of optimal	JR Sharma, S	Symmetry	2019	0	0	SLIET,
fourth order multiple	Kumar, L Jäntschi	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Longowal
root solvers without						
using derivatives						
Convergence analysis	D Kumar, JR	Mathematics	2019	0	0	SLIET,
and complex	Sharma, L	- Water Chates	2013			Longowal
geometry of an	Jäntschi					
efficient derivative-	Janesen					
free iterative method						
Generalized Kung-	JR Sharma, S	Journal of Complexity	2019	1	1	SLIET,
Traub method and its	Kumar, IK Argyros	Souther of complexity	2013		-	Longowal
multi-step iteration in	Ramar, IR7 agyros					
Banach spaces						
An efficient class of	JR Sharma, D	Symmetry	2019	0	0	SLIET,
weighted-Newton	Kumar, C Cattani	Symmetry	2013			Longowal
multiple root solvers	Kamar, e cattam					
with seventh order						
convergence,						
A modified Newton–	R Sharma, JR	International Journal of	2019	0	0	SLIET,
Özban composition for	Sharma, N Kalra	Computational Methods	2013	١٠		Longowal
solving nonlinear	Silailila, N Kalia	Computational Wethous				
systems						
One-point optimal	D Kumar, JR	Mathematics	2019	0	0	SLIET,
family of multiple root	Sharma, C	iviaciiciiiadies	2013			Longowal
solvers of second-	Cesarano					
order	CESAIAIIU					
Numerical inverse	Dimple Rani and	Results in Physics (Elsevier)	2020	1		SLIET,
	-	nesults iii Pilysics (Elsevier)	2020	1	1	Longowal
Laplace transform	Vinod Mishra				1	
based on Bernoulli						
polynomials						
operational matrix for						
solving nonlinear						
differential equations	B: 1.5 : :		2016	-	_	CLIET
Numerical inverse	Dimple Rani and	Symmetry-	2019	1	5	SLIET, Longowal

transform for solving a class of fractional differential equations Solving linear fractional order differential equations by Chebyshev polynomials based numerical inverse Laplace transform Some new harmonic mappings convex in one direction and their convolution On a subclass of univalent harmonic mappings convex in the imaginary direction Some norm inequalities for operators J.S.Aujia Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Mishra R.K. Dua Heena, Mishra R.						1	
class of fractional differential equations Solving linear fractional order differential equations by Chebyshev polynomials based numerical inverse Laplace transform Come new harmonic mappings convex in one direction and their convolution On a subclass of univalent harmonic mappings convex in their magnary direction Some norm Inequalities for operators On a question of Bhatia, Friedland and Jain Phase transition of Cosmological models with statistical tetchniques Cosmological models in Saez-Ballester theory of gravity Mishra R.K. Chand A. Mathematics in Engineering, 2019 O Usuer, 2019 O Us	Laplace	Vinod Mishra and	Basel (MDPI)				
differential equations Solving linear fractional order differential equations by Chebyshev polynomials based numerical inverse Laplace transform Some new harmonic mappings convex in on on a subclass of univalent harmonic mappings convex in the imaginary direction Some norm Inequalities for operators Inequalities for operator Theory Inequalities for	_	Carlo Cattani					
Solving linear fractional order differential equations by Chebyshev polynomials based numerical inverse Laplace transform Science and Aerospace Science Scie	class of fractional						
fractional order differential equations by Chebyshev polynomials based numerical inverse Laplace transform Some new harmonic mappings convex in one direction and their convolution On a subclass of univalent harmonic mappings convex in one direction and their convolution On a subclass of univalent harmonic mappings convex in one direction and their convolution On a subclass of univalent harmonic mappings convex in one direction Some norm in the imaginary direction Some norm operators Inequalities for operators Inequalities for operators Inequalities for operators A. Aggarwal and M. Singh Operator Theory Operator Theory On a question of Bhatia, Friedland and Jain Phase transition of cosmological models with statistical with statistical techniques Cosmological models with statistical sin Saez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory gravity Mishra R.K. Dua Heena, Astrophysics and Space Science Science Science Science Science Science Science On a Question of Operator Theory Operator Operator Theory Operator Theor	differential equations						
fractional order differential equations by Chebyshev polynomials based numerical inverse Laplace transform Some new harmonic mappings convex in one direction and their convolution On a subclass of univalent harmonic mappings convex in the imaginary direction Some norm inequalities for operators Inequaliti		Dimple Rani and	Mathematics in Engineering.	2019	0		SLIET,
differential equations by Chebyshev polynomials based numerical inverse Laplace transform Some new harmonic mappings convex in one direction and their convolution On a subclass of universe Laplace transform Some new harmonic mappings convex in their convolution On a subclass of universe Laplace transform On a subclass of universe Laplace transform Some new harmonic mappings convex in their convolution On a subclass of universe Laplace transform Sushma Gupta and Sukhjit Singh their convolution Some norm inequalities for operators Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological models with statistical techniques Cosmological models in Saez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Mishra R.K. Dua Heena, Astrophysics and Space Science Bulk viscous string cosmological models in Saez-Ballester theory of gravity	_	-				0	Longowal
by Chebyshev polynomials based numerical inverse Laplace transform Some new harmonic mappings convex in one direction and their convolution On a subclass of univalent harmonic mappings convex in the imaginary direction Some norm Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Inertia of parawite Chinu Singla, Filomat Adv. Math.Sci. J 2019 O SUET. Long: Adv. Math.Sci. J 2020 O O SUET. Long: O Advances in Operator Theory Ope							
polynomials based numerical inverse Laplace transform Some new harmonic mappings convex in one direction and their convolution On a subclass of univalent harmonic mappings convex in the imaginary direction Some norm Some norm V. Kapil, R. Pal, M. Singh and Operator Theory Operators J.S.Aujia Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Insequelative to Chinu Singh and Operator Theory On a question of cosmological models in Saez-Ballester theory of gravity Mishra R.K. Dua Heena, Astrophysics and Space Science Science Filomat Pilomat Adv. Math.Sci. J Advances in Operator Theory Operator T							
numerical inverse Laplace transform	-						
Laplace transform Some new harmonic mappings convex in one direction and their convolution On a subclass of univalent harmonic mappings convex in the imaginary direction Some norm inequalities for operators Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological models with statistical techniques Cosmological models in Saez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity In Saez-Ballester theory of gravity Chinu Singla, Filomat Sushma Gupta and Sukhjit Singh Adv. Math.Sci. J 2019 0 0 SLIET, Longe 1 SLIET, Longe 2019 0 SLIET, Longe 0 SLIET, Longe 1 SLIET, Longe 1 Science 1 Sushma Gupta and Sukhjit Singh Adv. Math.Sci. J 2020 0 0 SLIET, Longe 1 SLIET, Longe 1 SLIET, Longe 1 SLIET, Longe 1 Science 1 SLIET, Longe 1 SLIET,	-						
Itansform Some new harmonic mappings convex in one direction and their convolution On a subclass of univalent harmonic mappings convex in the imaginary direction Some norm inequalities for operators J.S.Aujla Advances in Operator Theory Operator Theo							
Some new harmonic mappings convex in one direction and their convolution	•						
mappings convex in one direction and their convolution On a subclass of univalent harmonic mappings convex in the imaginary direction Some norm Singh and Operator Theory Operator Theory Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological models with statistical techniques Cosmological models in Saez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Deepall Khurana, Sushma Gupta and Adv. Math.Sci. J Operator Theory Op							CLIET
one direction and their convolution On a subclass of univalent harmonic mappings convex in the imaginary direction Some norm Inequalities for operators Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological models with statistical techniques Cosmological models in Saez-Ballester theory of gravity Bulk viscous string cosmological models in Saez-Ballester theory of gravity Inertia of gravity Adv. Math.Sci. J Coprator Theory O D SLIET, Long. Advances in Operator Theory O D SLIET, Long. Astrophysics and Space Science O O SLIET, Long. Astrophysics and Space Science Dua Heena, Science Astrophysics and Space Science Dua Heena, Astrophysics and Space Science Dua Heena, Astrophysics and Space Science Astrophysics and Space Science Dua Heena, Astrophysics and Space Science		_	Filomat	2019	0		Longowal
their convolution On a subclass of univalent harmonic mappings convex in the imaginary direction Some norm inequalities for operators Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological models in Saez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Usushma Gupta and Sukhjit Singh Adv. Math.Sci. J Oderator J. S. J.		•				0	Longowai
On a subclass of univalent harmonic mappings convex in the imaginary direction Some norm inequalities for operators Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Deepali Khurana, Sushma Gupta and Sushma Gupta and Sushmit Singh Adv. Math.Sci. J 2020 0 0 0 SLIET, Longr Advances in Operator Theory 0 Coprator Theory 0 SLIET, Longr Advances in Operator Theory 0 SUET, Longr Advances in Operator Theory 0 SUET, Longr Astrophysics and Space Science 1 Suery	one direction and	and Sukhjit Singh					
univalent harmonic mappings convex in the imaginary direction Some norm Singh and Operator Theory Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Longe Advances in Operator Theory Advances in Operator Theory Operator Theory Advances in Operator Theory Operator Theory Outling and Movences in Operator Theory Operator Theory Outling and Movences in Operator	their convolution						
univalent harmonic mappings convex in the imaginary direction Some norm inequalities for operators Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological models with statistical tetchniques Cosmological models in Saez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Longs A. Agarwal and Advances in Operator Theory Op	On a subclass of	Deepali Khurana,	Adv. Math.Sci. J	2020	0	0	
mappings convex in the imaginary direction Some norm	univalent harmonic	-					Longowal
the imaginary direction Some norm		•					
direction Some norm							
Some norm inequalities for operators							
inequalities for operators J.S.Aujla Operator Theory J.S.Aujla Operator Theory Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological model with statistical techniques Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Singh and Operator Theory Operator Theor		V Kanil R Dal M	Advances in	2019	0		SLIET,
Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological model with statistical techniques Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Inertia of some conditional Jain Advances in Operator Theory Operator Theory Advances in Operator Theory		•		2019			Longowal
Inertia of some conditionally negative definite matrices On a question of Bhatia, Friedland and Jain Phase transition of cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity A. Aggarwal and M. Advances in Operator Theory A. Aggarwal and M. Singh Operator Theory Operator Theory Linear and Multilinear Algebra Astrophysics and Space Science 2019 O SLIET, Longo O SLIET,		_	Operator meory			0	
conditionally negative definite matrices On a question of Bhatia, and M. Singh Phase transition of cosmological model with statistical techniques Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity M. Singh Operator Theory O	operators	J.S.Aujiā					
conditionally negative definite matrices On a question of Bhatia, and M. Singh Phase transition of cosmological model with statistical techniques Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity M. Singh Operator Theory O				2010	+		CULT
definite matrices On a question of Bhatia, and M. Singh Multilinear Algebra Phase transition of cosmological model with statistical techniques Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity M. Singh Linear and 2019 Multilinear Algebra Astrophysics and Space 2020 O O SLIET, Longo Science O O SLIET, Longo Science Science Science Dua Heena, Astrophysics and Space 2019 O O SLIET, Longo Science Science 1 SLIET, Longo SLIET, Longo SLIET, Longo Science 1 SLIET, Longo SLIET, Longo Science 1 SLIET, Longo SLIET, Longo Science 1 SLIET, Longo Science Science				2019	0		SLIET, Longowal
On a question of Bhatia, Friedland and Jain Phase transition of cosmological model with statistical techniques Cosmological models in Sáez-Ballester theory of gravity On a question of Shier, R. Kaur and M. Singh Multilinear Algebra Astrophysics and Space Science Astrophysics and Space Science Science Linear and Multilinear Algebra O O SLIET, Longo Science O O O SLIET, Longo Science Science Dua Heena, Science Science Dua Heena, Science Science Dua Heena, Science Science Dua Heena, Astrophysics and Space Science Dua Heena, Astrophysics and Space Science Mishra R.K. Journal of Science Astrophysics and Space Science Science 1 SLIET, Longo Longo Longo Science 1 Science	, ,	M. Singh	Operator Theory			0	Longowai
Bhatia, Friedland and Jain Phase transition of cosmological model with statistical techniques Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Mishra R.K. Journal of Science Multilinear Algebra Astrophysics and Space Science 2020 0 0 SLIET, Longo 2019 0 0 SLIET, Longo Science 2019 1 3 SLIET, Longo Science 1 3 SLIET, Longo Science 1 Astrophysics and Space Science	definite matrices						
Friedland and Jain Phase transition of cosmological model with statistical techniques Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Mishra R.K. Astrophysics and Space Science Astrophysics and Space Science Astrophysics and Space Science Dua Heena, Science Mishra R.K. Journal of Suiet, Longo Suiet, Longo Science Astrophysics and Space Science 1 Science 1 Suiet, Longo Suiet, Longo Suiet, Longo Science 1 Science 1 Suiet, Longo Suiet, Longo Suiet, Longo Science 1 Science	On a question of	Y. Kapil, R. Kaur	Linear and	2019	0		
Phase transition of cosmological model with statistical techniques Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Mishra R.K. Journal of Science Astrophysics and Space Science Astrophysics and Space Science 2019 0 O SLIET, Longo Chand A. Science 2019 1 O O SLIET, Longo 2019 1 O O SLIET, Longo Science 1 O O SLIET, Longo Longo Longo Astrophysics and Space Science 1 O O O SLIET, Longo Longo Longo Science 1 O O O O SLIET, Longo Longo Longo Science 1 O O O O O O O O O O O O O O O O O O	Bhatia,	and M. Singh	Multilinear Algebra			0	Longowal
cosmological model with statistical techniques Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Dua Heena, Science Astrophysics and Space Science Science Longo Longo Longo Longo Science Longo Longo Science 1 Longo Longo Science 1 Longo Longo Longo Science Longo Long	Friedland and Jain	_	_				
cosmological model with statistical techniques Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Mishra R.K. Journal of Astrophysics and Space Science 2019 0 0 SLIET, Longo Science 2019 1 3 SLIET, Longo Longo Longo SLIET, Longo Longo Science 1 Astrophysics and Space Science 1	Phase transition of	Mishra R.K.	Astrophysics and Space	2020	0	C	SLIET,
with statistical techniques Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Mishra R.K. Journal of 2019 3 SLIET, Longo 2019	cosmological model	Dua Heena.					Longowal
techniques Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Mishra R.K. Dua Heena, Astrophysics and Space Science 2019 0 0 SLIET, Longo Science 2019 1 3 SLIET, Longo Longo Science 1		2 44	<u> </u>				
Cosmological models in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Mishra R.K. Astrophysics and Space Science Astrophysics and Space 2019 0 0 SLIET, Longs Science Dua Heena, Astrophysics and Space Science 2019 0 0 SLIET, Longs SLIET, Longs Science							
in Sáez-Ballester theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Chand A. Science Science Longo Science 1 Longo Lon		Michra P V	Astrophysics and Space	2010	0	0	SLIFT
theory with bilinear, varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Charld A. Science Science Charld A. Science Science Science Charld A. Science Science Science Charld A. Science Science Science				2019	0	"	Longowal
varying deceleration parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Mishra R.K. Journal of Astrophysics and Space Science Journal of Sulet, Longo Science		Chand A.	Science				3
parameter Bulk viscous string cosmological models in Saez-Ballester theory of gravity Mishra R.K. Journal of 2019 3 SLIET, Longo 1 Science 1 Science	-						
Bulk viscous string cosmological models in Saez-Ballester theory of gravity Mishra R.K. Dua Heena, Astrophysics and Space Science 1 3 SLIET, Longo 1 1	· -						
cosmological models in Saez-Ballester theory of gravity Astrophysics and Space Science Science Congression Solution Congression	•			1	1		
in Saez-Ballester theory of gravity				2019		3	
theory of gravity	cosmological models	Dua Heena,	Astrophysics and Space		1		Longowal
	in Saez-Ballester		<u>Science</u>				
	theory of gravity						
i roddet strategies by Traintaj kamai, Triteriational southar of Tests		Pankaj Kumar,	International Journal of	2019	0	0	SLIET,
							Longowal
Punjab, Mahesh Arora & Research		-	<u> </u>				
Kirna Rani	. anjub,						
	Creating Employment		IOP Conference Series:	2020	0	0	SLIET,
creating Employment 74m Ramar, Rena, 101 connectence series.	I - I			2020	J	0	Longowal
in some indian Sanjeev Bansai Waterials Science and		Sanjeev Bansai					
Industries by reducing Engineering			Engineering				
the working shift							
timing					1		
international souther Terray surject	influence of Social	Renu, Sanjeev	International Journal of	2020	0	0	SLIET,
Media on consumer Bansal, Vandana Scientific & Technology	Media on consumer	Bansal, Vandana	Scientific & Technology				Longowal
purchase intention Gupta Research	purchase intention						
	•	•		2019	0	0	SLIET,
	<u> </u>		•				Longowal

future of Mobile Advertisement: Life Changing through Mobile	Kumar Garg & Mandeep Ghai	Journal of Psychosocial Rehabilitation				
Autobiographical Elements And Construction of Self In Plays of Mahesh Dattani,	Monika Kapil and Mahesh Kumar Arora	Think India Journal	2019	0	0	SLIET, Longowal
Mahesh Dattani's Final Solutions: A Peep into the Mannerism of Men and Women, and Their Diasporic Identity,	Monika Kapil and Mahesh Kumar Arora	, Alochana Chakra Journal	2020	0	0	SLIET, Longowal
Role of Industry- Institute Interaction To Promote Education And Entrepreneurship	Kirna Rani, Sanjeev Bansal, Pankaj Kumar	Think India Journal	2019	0	0	SLIET, Longowal
A Study of Financial Challenges Faced By Small Entrepreneurs in India	Kirna Rani, Sanjeev Bansal, Pankaj Kumar	Our Heritage Journal	2019	0	0	SLIET, Longowal
Impact of Training Programs on the Performance of Employees of Banking Sector: A Review	Manuja Garg, Sanjeev Bansal	Our Heritage Journal	2019	0	0	SLIET, Longowal
Goods and Service tax in India-Issues and Challenges	Seema Jain, Pawan Kumar Dhiman	Journal of Information and Computational Science (China) Zhongshan Daxue University	2019	0	0	SLIET, Longowal
Public Transport System-A Boon to National Development	Pawan Kumar Dhiman, Seema Jain	Journal of Gujarat Research Society	2019	0	0	SLIET, Longowal
A Study of Consumer Behaviour on Selecting and Switching Telecom Services in Patiala City	Sanjeev Kumar Garg and Gurpreet Sandhu	International Journal of 360 Degree Management Review	2019	0	0	SLIET, Longowal
Advertisement and its Influence on Consumer Behaviour: An analysis reference to FMCG products	Bharti, Garg, Sanjeev Kumar and Mandeep Ghai	Studies in Indian Place Names	2020	0	0	SLIET, Longowal
Factors Affecting Consumer Purchase Intention for Organic Food : A Review	Pardeep Kumar Jain	Alochana Chakra Journal	2019	0	0	SLIET, Longowal
Synthesis of a new tetradentatechelator with 1-Hydoroxy-2(1H)-pyridinone (HOPO) as chelating unit: Interaction with Fe (III), solution	B.K. Kanungo, MinatiBaral, Dibyajit Dash	J. Molecular Structure	2020	10	0	SLIET, Longowal

thermodynamics and DFT studies						
Photophysical Studies of a Catechol Based PolyfunctionalDipodal Chelator: Application for Optical Probe for Selective Detection of	B K Kanungo,Minati, Baral, Vijay Dangi	Journal of fluorescence	2020	10	0	SLIET, Longowal
Fe(III) Dipodal Molecular Device as Fluorescent Sensor for Na(I) Detection	B K KanungoMinati, Baral, Vijay Dangi	Journal of Applied Spectroscopy	2020	10	0	SLIET, Longowal
Experimental and Theoretical Studies on Structure, Bonding and Luminescence Properties of Eu(III) and Tb(III) Complexes of a New Macrocyclic Based 8HQ Ligand	B K Kanungo, Rohini, MinatiBaral	Journal of Coordination Chemistry	2019	10	0	SLIET, Longowal
Structural effect on the central cavity of a pendent 12N3 macrocycle on bonding and photophysical properties of Eu ³⁺ and Tb ³⁺ complexes: Experimental and theoretical study	B K Kanungo, Rohini, MinatiBar al	Journal of Molecular Structure	2019	10	0	SLIET, Longowal
Study for the Development of a Cyclohexane Based Tripodal Molecular Device as "OFF-ON- OFF" pH Sensor and Fluorescent Iron Sensor	B. K. KanungoMinati, Baral, Vijay Dangi	Current Analytical Chemistry	2019	10	0	SLIET, Longowal
Experimental and theoretical investigations of Mn-N-co-doped TiO ₂ photocatalyst for visible light induced degradation of organic pollutants	Dhiraj Sud N Sharotri, D Sharma	Journal of Materials Research and Technology	2019	20	19	SLIET, Longowal
Investigations on amphoteric Chitosan/TiO ₂ bionanocomposites for application in visible light induced photocatalytic degradation	Dhiraj Sud M. Bahal, N. Kaur, N. Sharotri	Advances in Polymer Technology	2019	20	03	SLIET, Longowal
A Review on High Performance Liquid Chromatographic	DhirajSud, G. Kaur Sonali Garg, Pratima	Current Analytical Chemistry	2020	20	0	SLIET, Longowal

r	T		_			
Methods for the	Sharma					
Determination of						
Metformin						
Development of	Dhiraj Sud, Sonali	J Pharm Drug Deliv Res	2020	20	0	SLIET, Longowal
Simple, Facile	Garg, Pratima					Longowai
Spectrophotometric	Sharma					
Method for						
Determination of						
Metformin						
Hydrochloride in						
Aqueous Medium						
Synthesis and	Harish Kumar	Journal of Molecular Liquids	2020	14	05	SLIET,
applications of	Chopra and					Longowal
carbohydrate based	Nirmaljeet Kaur					
chiral ionic liquids as						
chiral recognition						
agents and organo-						
catalysts						
Optimization of	Harish Kumar	Journal of Food Processing	2020	20	02	SLIET,
process variables of	Chopra, MB Bera,	and				Longowal
probe	R Foujdar					
ultrasonic-assisted						
extraction of phenolic						
compounds from the						
peel of						
Punicagranatum Var.						
Bhagwa and its						
chemical and						
bioactivity						
Chiral Recognition	Harish Kumar	Crit. Rev. Anal. Chem.	2019	20	07	SLIET,
Methods in Analytical	Chopra, Avtar					Longowal
Chemistry: Role of the	Singh, Nirmaljeet					
Chiral Ionic Liquids	Kaur					
Recent Trends on the	Harish Kumar	Food Rev. International	2019	20	01	SLIET, Longowal
Valorization Strategies	Chopra,P.S.Panes					Longowai
for the Management	ar, Divyani					
of Citrus By-products,	Panwar					
Recent Advances in	Harish Kumar	Curr. Org. Chem	2019	20	0	SLIET,
Applications of	Chopra,Pawanpr					Longowal
Supported Ionic	eet Kaur					
Liquids						
Ultrasound assisted	R.P. Chaudhary,	Journal of Heterocyclic	2019	13	0	SLIET,
facile synthesis and	Amritpal Kaur, A.	Chemistry				Longowal
antimicrobial studies	P. Kaur, P.					
of alkanediyl-bis-	Gautan, D.					
thiazolidi-4-one and	Gautam					
alkanediyl-thiazinz-4-						
ones.						
Correlation study	Damanjit Singh	Biocatalysis and Agricultural	2019	2	0	SLIET,
among the extraction	Cannoo Poonam	Biotechnology				Longowal
techniques,	Kumari Patial,					
phytochemicals, and	Ajay Sharma,					
antioxidant activity of	Inderpal Kaur					
Nepeta spicata aerial						
part						
Phytochemical profile,	Damanjit Singh	Natural Product Research	2019	2	01	SLIET,

	T	1	T		1	1.
antioxidant potential and DFT study of <i>Araucaria</i> <i>columnaris</i> (G. Forst.)	Cannoo, Poonam Kumari Patial					Longowal
Hook.						
Branch extracts Evaluation of volatile	Damanjit Singh	Food and Chemical Toxicology	2020	2	0	SLIET,
compounds, phenolic acids, antioxidant potential and DFT study of essential oils from different parts of <i>Araucaria columnaris</i> (G. Forst.) Hook, from	Cannoo, Poonam Kumari Patial	rood and Chemical Toxicology	2020	2		Longowal
India						
A review of bischalcones: synthesis and pharmacological applications	Himanshu Rani, V. Bhardwaj	International Journal of Research and Analytical Reviews	2019	2	0	SLIET, Longowal
Advances in urea and thiourea catalyzed ring opening polymerization: A brief overview	Payal Malik, Isha Jain	Eur. Polym. J.	2020	8	0	SLIET, Longowal
A conglomerated ion- motion and crisscross search optimizer for electric power load dispatch	Mohit Kumar and J.S. Dhillon	Applied Soft Computing Journal, vol. 83, 2019, 105641, ISSN: 1568-4946	2019		2	SLIET, Longowal
Profit based unit commitment using memetic binary differential evolution algorithm	Jatinder Singh Dhaliwal, J.S. Dhillon	Applied Soft Computing Journal, vol. 81, 2019, 105502, ISSN: 1568-4946	2019		5	SLIET, Longowal
Multi-objective combined heat and power unit commitment using particle swarm optimization	Himanshu Anand, Nitin Narang and J.S. Dhillon	Energy, Vol. 172, 2019, pp.794-807, ISSN: 0360-5442, IF 4.968	2019		14	SLIET, Longowal
Ameliorated grey wolf optimization for economic load dispatch	Diljinder Singh and J.S. Dhillon	Energy, Vol 169, 2019, pp. 398-419, ISSN: 0360-5442, IF 4.968	2019		24	SLIET, Longowal
Design and Analysis of a New Improved Force Linear Switched Reluctance Motor for Transit Application	N Prasad, S Jain, S Gupta	IETE Journal of Research, 1-14, 2019	2019		1	SLIET, Longowal
Measurement and Optimization of Performance Parameters of Linear Switched Reluctance	N Prasad, S Jain, S Gupta	MAPAN, 1-9, 2019	2019		0	SLIET, Longowal

Motor Using Finite					
Element Method					
Electrical Components	N Prasad, S Jain,	Urban Rail Transit, 1-13, 2019	2019	4	SLIET, Longowal
of Maglev Systems:	S Gupta				Longowai
Emerging Trends					
SEIG-based renewable	K Tandekar, A	international Transactions on	2019	2	SLIET, Longowal
power generation and	Ojha, S Das, P	Electrical Energy Systems 29			Longowai
compensation in	Swarnkar, S Jain	(4), e2785, 2019			
MVDC ship power					
system					
Five-Level Cascaded H-	J Tandekar, A	Journal of Circuits, Systems	2019	2	SLIET, Longowal
Bridge MLC-Based	Ojha, S Jain	and Computers 28 (02),			Longowai
Shunt Active Power		1950035, 2019			
Filter for Active					
Harmonics Mitigation					
in Distributed Network					
Automated	Jaspreet	Multimedia Tools and	2019	3	SLIET,
approaches for ROIs	Singh, Ajat Shatru	Applications, Jan 2019. DOI:			Longowal
extraction in medical	Arora	10.1007/s11042-018-7113-z			
thermography: a					
review and future					
directions					
Recognition of	Rajat Kumar, Raj	IEEE Transactions on	2019	2	SLIET,
Underlying Causes of	Kumar, Sanjay	Instrumentation &			Longowal
Power Quality	Marwaha, Bhim	Measurement, pp. 1-10, 2019			
Disturbances Using	Singh				
Stockwell Transform					
A triband slotted bow-	Bansal,	Optik, 2019	2019	5	SLIET,
tie wideband THz	G., Marwaha,				Longowal
antenna design using	A., Singh,				
graphene for wireless	A., Bala,				
applications	R., Marwaha, S.				
Synthesis and	Rani, S., Marwah	Journal of Electronic	2019	0	SLIET,
Validation of a Cu	a, A., Marwaha,	Materials, 2019			Longowal
Meta-Based	S. ,Chavali,				
Wideband Microwave	M., Reddy, P.N.				
Absorber on an					
Antenna Array					
Investigation of	Gurmeet Singh,	International Journal of	2019	0	SLIET,
Influence of Rotor	Sanjay	Engineering and Technology			Longowal
Geometry on Cogging	Marwaha, Ajat	(UAE), ISSN: 2227-524X, 2019,			
Torque in Combined	Shatru	Scopus Indexed			
Axial Flux Permanent					
Magnet Synchronous					
Motor					
Comprehensive	M.	IEEE Transactions on Industry	2019	3	SLIET, Longowal
Controller	Rezkallah, Sanjee	Applications, vol. 55, no. 5,			Longowal
Implementation for	v Singh, A.	pp. 5416-5428, SeptOct.			
Wind-PV-Diesel based	Chandra, M.	2019			
Standalone Microgrid	Saad, B. Singh,				
	M. Tremblay and				
	H. Geng		2012		SLIET,
The second section 1.	J. Singh Maan, S.	International Journal of	2019	0	Longowal
Impact of Harmonics		Emerging Electric Power			Longowal
on Power Transformer	Singh and A.				
on Power Transformer Losses and Capacity	Singh and A.	Systems, vol. 20, no. 4, pp.			
on Power Transformer	_				

Distribution transformer failure modes, effects and criticality analysis (FMECA)	Jaspreet Singh, Sanjeev Singh and Amanpreet Singh	Engineering Failure Analysis, vol.99, pp.180-191, May 2019.	2019	9	SLIET, Longowal
Microgrid: Configurations, Control and Applications	M. Rezkallah, Ambrish Chandra, Bhim Singh and Sanjeev Singh	IEEE Trans. Smart Grid, vol. 10, no. 2, pp. 1290-1302, March 2019	2019	6	SLIET, Longowal
Assessment of Energy–Population– Urbanization Nexus with Changing Energy Industry Scenario in India	Avtar, Ram and Tripathi, Saurabh and Aggarwal, Ashwani Kumar	Land, volume 8, number 8, pages 124-128, 2019	2019	2	SLIET, Longowal
Exploring Renewable Energy Resources Using Remote Sensing and GIS—A Review	Avtar, Ram and Sahu, Netrananda and Aggarwal, Ashwani Kumar and Chakraborty, Shamik and Kharrazi, Ali and Yunus, Ali P and Dou, Jie and Kurniawan, Tonni Agustiono	Resources, volume 8, number 3, pages 149-155, 2019	2019	10	SLIET, Longowal
Population— Urbanization—Energy Nexus: A Review	Avtar, Ram and Tripathi, Saurabh and Aggarwal, Ashwani Kumar and Kumar, Panka	Resources, volume 8, number 3, pages -136-142, 2019	2019	16	SLIET, Longowal
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 and Biological Engineering and Computing,ISSN: 0140- 0118,57(6): 1323-1339, 2019	2019	2	SLIET, Longowal
Modelling of PAFC Based Scattering Monitoring System for the Characterization of the Therapeutic Micro-Bubbles	hor K. Bhardwaj, Surita Maini	Journal of Biomedical Photonics & Engineering, DOI 10.18287/JBPE19.05.030303, 2019	2019	0	SLIET, Longowal
Fusion and Enhancement Techniques for Processing of Multispectral Images,	Aggarwal, Ashwani Kumar	Springer, 159–175, 2020	2020	0	SLIET, Longowal

Unmanned Aerial Vehicle: Applications in Agriculture and Environment					
PLS-Based Multivariate Statistical Approach for Soft Sensor Development in WWTP	Barasha Mali, S. H. Laskar	Control Instrumentation Systems. Springer, Singapore, 2020. 123-131	2020	0	SLIET, Longowal
Characterization and Measurement of Nanostructured Copper based Electromagnetic Wave Absorber	Surekha Rani, Anupma Marwaha, Sanjay Marwaha, Sukhleen Bindra, Murthy Chavali & P. Narasimha Reddy	J. Electromagnetics, Taylor and Francis, Vol. 41, 2020, DOI: 10.1080/02726343.2020.1780 375, [SCI indexed; IF:0.6].	2020	0	SLIET, Longowal
Modelling and simulation of vertical fin style aluminium heat sink for controlled thermal compensation in absorber loaded antenna array, Journal of Communication Technology and Electronics	Surekha Rani, Anupma Marwaha, Sanjay Marwaha	Springer, Vol. 11, 2020. [SCI indexed; IF:0.5].	2020	1	SLIET, Longowal
Nanocomposite graphene based tunable absorber for combating electromagnetic pollution	Surekha Rani, Anupma Marwaha, Sanjay Marwaha	Current Nanoscience, Bentham Science Publisher, Vol. 16(1), pp. 1-8, 2020	2020	1	SLIET, Longowal
Graphene based Multiband Frequency Antipodal Vivaldi Nanoantenna for UWB Applications	Gaurav Bansal, A. Marwaha, Amanpreet Singh, Rajni Bala,S.Marwaha	Journal of Computational Electronics, February 2020, pp. 1-10	2020	1	SLIET, Longowal
Synthesis of Palladium nanoparticles in SiO ₂ matrix	Kanika Aggarwal	International journal of Advanced science and technology	2019	00	SLIET, Longowal
Hydrogen sensing properties of Palladium Thin films and Nanoparticles	Kanika Aggarwal	AIP Conference Proceedings	May, 2020	00	SLIET, Longowal
Two-particle azimuthal correlations as a probe of collective behaviour in deep inelastic ep scattering at HERA	Prabhdeep Kaur (as a member of ZEUS collaboration)	JOURNAL OF HIGH ENERGY PHYSICS	Dec, 2019	00	SLIET, Longowal
Study of proton parton distribution functions at high x using ZEUS data	Prabhdeep Kaur (as a member of ZEUS collaboration)	Physical review D	March, 2020	00	SLIET, Longowal

On the potential for	Gupta, Y., Sinha,	Physica C: Superconductivity	2020	0	SLIET, Longowa
superconductivity in	M.M., Verma, S.S.	and its Applications			Longowa
ZrX (X = S and Te): a					
first-principles study					
Magneto-plasmonic	Bhatia, P., Verma,	Journal of Quantitative	2020	0	SLIET,
Co@M	S.S., Sinha, M.M.	Spectroscopy and Radiative			Longowa
(M = Au/Ag/Au-Ag)		Transfer			
core-shell					
nanoparticles for					
biological imaging and					
therapeutics					
Lattice dynamics of	Gupta, Y., Sinha,	Physica B: Condensed Matter	2020	0	SLIET,
novel Heusler alloys	M.M., Verma, S.S.	,			Longowa
MnY2Z (Z=Al and Si)	141.141., Verma, 3.3.				
	Bhatia, P., Verma,	Chamical Physics Latters	2020	0	SLIET,
Size-dependent optical		Chemical Physics Letters	2020	U	Longowa
response of complex	S.S., Sinha, M.M.				
CoFe@Ag & CoFe@Au					
core-shell					
nanospheres					
Enhanced	Singh,	Energy Sources, Part A:	2020	1	SLIET,
photocurrent in thin-	G., Sekhon,	Recovery, Utilization and			Longowa
film GaAs solar cells	J.S., Verma, S.S.	Environmental Effects			
with embedded Al	, ,				
nanoparticles					
Tunable optical	Bhatia, P., Verma,	Journal of Electromagnetic	2020	0	SLIET,
		_	2020	· ·	Longowa
response of Fe-Ag	S.S., Sinha, M.M.	Waves and Applications			
nanoparticles in core-					
Shell nanostructures					0.157
Theoretical study of	Gupta, Y., Sinha,	Philosophical Magazine	2020	0	SLIET,
structural, electronic	M.M., Verma, S.S.				Longowa
and lattice dynamical					
properties of novel					
AlNiP half-Heusler					
allov					
Tunable plasmonic	Bhatia, P., Verma,	Journal of Quantitative	2020	0	SLIET,
properties of	S.S., Sinha, M.M.	Spectroscopy and Radiative	2020		Longowa
elongated bimetallic	3.3., 311111a, 1V1.1V1.	Transfer			
_		l mansier			
alloys nanoparticles					
towards deep UV-NIR					
absorbance and					
sensing					
Design and analysis of	Singh, G., Verma,	Photonics and Nanostructures	2019	1	SLIET,
thin film GaAs solar	S.S.	- Fundamentals and			Longowa
cells using silver		Applications			
nanoparticle					
plasmons					
Size dependent	Bhardwaj,	Optics Communications	2019	0	SLIET,
plasmonic properties	A., Verma, S.S.	,	1		Longowa
of Ga@Ag & Cs@Ag	, , v erma, 5.5.		1		
liquid–metal			1		
•					
nanospheres	Dhatia D V	Disconnic	2010		SLIET,
Optical properties	Bhatia, P., Verma,	Plasmonics	2019	0	Longowa
simulation of	S.S., Sinha, M.M.				Longowa
magneto-plasmonic					
alloys nanostructures					
A First Principle Study	Gupta, Y., Sinha,	Physics Status Solidi b	2019	0	SLIET,
of Structural,	M.M., Verma, S.S.				Longowa

		1	1		
Electronic and					
Vibrational Properties					
of LuPdBi Half Heusler					
Alloy					
Size-Dependent RIS	Bhatia, P., Verma,	Photonic Sensors	2019	0	SLIET,
and FOM of Ag-Fe and	S.S., Sinha, M.M.				Longowa
Au-Fe Bimetallic Alloys					
in Triangular Prism: a					
DDA Study					
Tuning the Optical	Bhatia, P., Verma,	Physics Letters A	2019	5	SLIET,
Properties of Fe-Au	S.S., Sinha, M.M.	Thysics Letters 71	2013		Longowa
Core-Shell	3.3. , 3iiiiia, ivi.ivi.				
Nanoparticles with					
-					
Spherical and					
Spheroidal					
Nanostructures					CLIET
Plasmon enhanced	G Singh, SS	Physics Letters A	2019	9	SLIET, Longowa
light trapping in thin	Verma				Longowa
film GaAs solar cells by					
Al nanoparticle array					
Synthesis and	J SINGH, SS	Asian Journal of Chemistry	2019	3	SLIET,
Characterization of	VERMA				Longowa
Some Useful					
Thermoelectric					
Materials					
Novel Green Synthesis	Jagdeep Singh &	Analytical Letters (IF= 1.260)	2019	0	SLIET,
and Characterization	Amarjit Singh	,a., cca. 2000.5 (21200)			Longowa
of the Antioxidant	Dhaliwal				
Activity of Silver	Brianwar				
Nanoparticles					
Prepared from Nepeta					
leucophylla Root					
ieucopnylia Root					
Cutus st					
Extract,					
	lagdeen Singh &	Environmental Technology (LE	2020	0	SLIET.
Plasmon-induced	Jagdeep Singh &	Environmental Technology (I.F	2020	0	SLIET, Longowa
Plasmon-induced photocatalytic	Jagdeep Singh & A. S. Dhaliwal	Environmental Technology (I.F = 2.213)	2020	0	,
Plasmon-induced photocatalytic degradation of			2020	0	,
Plasmon-induced photocatalytic degradation of methylene blue dye			2020	0	,
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized			2020	0	
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as			2020	0	
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst,	A. S. Dhaliwal	= 2.213)			Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic	A. S. Dhaliwal Sjit Sharma, T	= 2.213) Turkish Journal of	2020	0	Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A	= 2.213)			Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S	= 2.213) Turkish Journal of			Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total bremsstrahlung	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A	= 2.213) Turkish Journal of			Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total bremsstrahlung spectra in compounds,	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S Dhaliwal,	= 2.213) Turkish Journal of Physics(IF=0.34)	2019	0	SLIET, Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S	= 2.213) Turkish Journal of Physics(IF=0.34) Glass Physics and Chemistry			SLIET, Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total bremsstrahlung spectra in compounds, Photon Interaction	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S Dhaliwal,	= 2.213) Turkish Journal of Physics(IF=0.34)	2019	0	SLIET, Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total bremsstrahlung spectra in compounds,	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S Dhaliwal, R Singh, D Singh,	= 2.213) Turkish Journal of Physics(IF=0.34) Glass Physics and Chemistry	2019	0	SLIET, Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total bremsstrahlung spectra in compounds, Photon Interaction Parameters	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S Dhaliwal, R Singh, D Singh, A Singh, AS	= 2.213) Turkish Journal of Physics(IF=0.34) Glass Physics and Chemistry	2019	0	SLIET, Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total bremsstrahlung spectra in compounds, Photon Interaction Parameters Investigations for	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S Dhaliwal, R Singh, D Singh, A Singh, AS	= 2.213) Turkish Journal of Physics(IF=0.34) Glass Physics and Chemistry	2019	0	SLIET, Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total bremsstrahlung spectra in compounds, Photon Interaction Parameters Investigations for Some ZnO-Al2O3-Fe2O3-P2O5 Glasses	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S Dhaliwal, R Singh, D Singh, A Singh, AS	= 2.213) Turkish Journal of Physics(IF=0.34) Glass Physics and Chemistry	2019	0	SLIET, Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total bremsstrahlung spectra in compounds, Photon Interaction Parameters Investigations for Some ZnO–Al2O3–Fe2O3–P2O5 Glasses at 59.4 keV Incident	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S Dhaliwal, R Singh, D Singh, A Singh, AS	= 2.213) Turkish Journal of Physics(IF=0.34) Glass Physics and Chemistry	2019	0	SLIET, Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total bremsstrahlung spectra in compounds, Photon Interaction Parameters Investigations for Some ZnO–Al2O3–Fe2O3–P2O5 Glasses at 59.4 keV Incident Photon Energy.	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S Dhaliwal, R Singh, D Singh, A Singh, AS Dhaliwal	= 2.213) Turkish Journal of Physics(IF=0.34) Glass Physics and Chemistry (IF=0.630)	2019	0	SLIET, Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total bremsstrahlung spectra in compounds, Photon Interaction Parameters Investigations for Some ZnO–Al2O3–Fe2O3–P2O5 Glasses at 59.4 keV Incident Photon Energy.	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S Dhaliwal, R Singh, D Singh, A Singh, AS Dhaliwal M. Gupta, P. K.	= 2.213) Turkish Journal of Physics(IF=0.34) Glass Physics and Chemistry (IF=0.630)	2019	0	SLIET, Longowa SLIET, Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total bremsstrahlung spectra in compounds, Photon Interaction Parameters Investigations for Some ZnO–Al2O3–Fe2O3–P2O5 Glasses at 59.4 keV Incident Photon Energy. Structural investigation of Nd-	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S Dhaliwal, R Singh, D Singh, A Singh, AS Dhaliwal M. Gupta, P. K. Kulriya, R. Kumar	= 2.213) Turkish Journal of Physics(IF=0.34) Glass Physics and Chemistry (IF=0.630) Nuclear Instruments and Methods in Physics Research	2019	0	SLIET, Longowa
Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst, Modified atomic number dependence of total bremsstrahlung spectra in compounds, Photon Interaction Parameters Investigations for Some ZnO–Al2O3–Fe2O3–P2O5 Glasses at 59.4 keV Incident Photon Energy.	A. S. Dhaliwal Sjit Sharma, T Singh, D Singh, A Singh, A S Dhaliwal, R Singh, D Singh, A Singh, AS Dhaliwal M. Gupta, P. K.	= 2.213) Turkish Journal of Physics(IF=0.34) Glass Physics and Chemistry (IF=0.630)	2019	0	SLIET, Longowa SLIET, Longowa

		•								
Probing swift heavy	Merry Gupta		Nuclear Instru			2019)		0	SLIET,
ion irradiation damage	Kulriya,		Methods in Ph	-						Longowal
in Nd-doped	R.C.Meena,		Section B: Bea							
zirconolite.	S.Neumeier 8		with Materials	and A	Atoms					
	S.S.Ghumma		(IF= 1.270)						_	C. 15-
Phase analysis and	Rajveer Kaur,		Iournal of Rad		-		9		0	SLIET, Longowal
reduction behaviour	Gupta,P. K.		Nuclear Chemi	istry (IF= 1.240)				Longowan
of Ce dopant in	Kulriya and S	. S.								
zirconolite.	Ghumman,	/o f	1.0		1					
3.4.7 Faculty participation	on in Seminars,	/Confere	ences and Sym	posia	during tr	ie year :				Local
No. of Faculty			ational level		National l	evel		e level		level
Attended Seminars/ Wo	rkshops	7			46		7			12
Presented papers		19			12		5			0
Resource Persons		2			15		7			0
3.5 Consultancy										
3.5.1 Revenue generated	d from Consult	ancy du	ring the year							
Name of the	Name of	Consulta	ncy project	Con	sulting/S _l	ponsorin	g R	evenue	generated	d (amount in
Consultant(s) departmen	nt			Age	ncy		r	upees)		
Dr. H.K. Chopra,								_		
Prof. Chemistry				Dha	rmaffiliat	_ C				
Department					llytics & S					
and	Production	n of No	Novel		Ltd., Plot I	-		s. 1, 29	501/-	
Dr. P.S. Panesar,	Rapamyci	in Analo	gs					.s. 1, 2 <i>5</i> ,	, 334/-	
Prof. FOOD EGG. & TECH	I.				Industrial Area, Pha 2, Panchkula (Harya					
Department				2,1	ariciikula	(i iai yaii	۵)			
		_	f samples on							
Dr. D.C. Saxena,	•	•	ser Installed		earch Lab		I R	s. 500/-	per samp	le + GST =
Prof. FOOD EGG. & TECH		eology L	ab of		earch Lab	s Pvt. Lto	1 1	s. 2, 36		
Department	Institute			Ane	emdabad					
				Sh.	Arun Kum	ar Kund	ra,			
				reti	red Princi	pal from				
				Har	yana Sirsa	for				
Du II D. Chatale	Technical	Guidano	ce for getting	sett	ing up the	e unit fo	-			
Dr. H.R. Ghatak, Prof. Chemical	valuable	products	from	extr	raction of	turmerio	R	s. 23, 6	00/-	
Engineering Department	turmeric			oil,	curcumin	and				
Engineering Department				colo	ouring ma	tter fron	ı			
				turr	meric					
D 11 1/ 5!										
Dr. H.K. Chopra,										
Prof. Chemistry				Pha	rmaffiliat	es				
Department	Diagranti-	scie of It.	ormostic	Ana	lytics & S	ynthetic	5 5	artial f	ndina -f r	o EO 000/
and Dr. D.S. Danasar	Biosynthe				Ltd., Plot I	-	P		iliaing of F	ks. 50, 000/-
Dr. P.S. Panesar,	and its Ar	iaiogues	,	Indu	ustrial Are	a, Phase	:- r	eceived		
Prof. FOOD EGG. & TECH	1.				anchkula					
Department										
	Develong	nent of C	Optimal UV				-+			
Dr. Surinder Singh, Prof.	Sanitizatio		-		_					
ELECTRONICS & COMM.				_	abyte Net		/t. R	s. 2, 32,	000/-	
ENGGDepartment	Bacteria f			Ltd.	, Ludhian	a	'`	,	, 555,	
and the special contents	application									
3.5.2 Revenue generated			ing by the inst	itutio	n during t	the year	1			
	itle of the Prog		Agency see			venue g	enerat	ed (amo	ount in	Number of
Consultant (s) &			training	rupees)				traine		

			T						
Department									
3.6.1 Number of exte							-	munity and Non-	
Government Organisa	ations thro	ough NSS/NCC/Re	ed cross/	Youth Red C	ross	(YRC) etc., during the	e year		
Title of the Activities		Organising unit,	/ agency/	1		mber of teachers		Number of	
		collaborating ag	gency		coo	rdinated in such acti	vities	students	
								participated in	
								such activities	
Motivational Sessions	for	NSS, SLIET in co	llaboratio	on with	01			20 NSS volunteers	
Children towards Edu	cation	Community at E	3hammak	oaddi	01			+ 40 no. of village	
(8 no. of sessions)		Village, District	Sangrur					children	
Cleanliness Drive at		NSS, SLIET along	gwith oth	ier	02			60 NSS Volunteers	
Residential Area of SL	esidential Area of SLIET De								
(Swachhta Abhiyaan)	Swachhta Abhiyaan) on								
2.10.2019									
Shramdaan (One day	,	NSS, SLIET			01			40 NSS	
Volunteer Services ca	mps) at							Volunteers	
Pingalwara, Sangrur –	- 02								
nos.(dated 21.09.201									
19.10.2019)									
Observance of armed	forces	NCC, SLIET/Disti	rict Defer	nse	01			103(All NCC	
flag day on 7th		services welfare	e officer, S	Sangrur				cadets)	
December,2019			,	Ü				,	
Rashtriya Ekta Diwas	on	NCC&NSS. SLIET	of higher	02			NCC and NSS		
31st,October,2019			NCC&NSS, SLIET/Deptt. of Education, MHRD,GOI					cadets	
Communal Harmony		NCC SLIET/Natio		dation	01			103(All NCC	
Campaign Week 19th	to 25th	for Communal F			01			Cadets)	
November, 2019,	2541	MHA,GOI	iai iiioiiy,	,				Caucisy	
Flag Day on 25th Nove	mher	NCC SLIET/ Nati	onal four	ndation	01			103(All NCC	
2019,	.iiibci,	for communal F			01			Cadets)	
World Food Day (WFI))	SLIET, Longowal		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	05			150	
Workshop on HACCP		International In		r	02			30	
– 20, October 2019	110111 13	Technical Teach			02			30	
20, 00:000: 2013		Dehradun and F							
		Research and A	_						
		(RFRAC), Luckno	-	Jiid C					
Industrial Educational	l Tour	Diesel Manufac		nrkshon	2			39	
industrial Educational	i ioui	(DMW), Govt. o			_				
		Punjab	aia, I	Straid					
Awards and recognition	on receive	•	activities :	from Gover	nmei	nt and other recogniz	ed hor	lies during the vear	
Name of the Activity		Award/reco		Awarding				of Students	
. Tame of the Activity		,	0	,arananig	~ 0 u i			efited	
STARTUP INDIA challe	nge2019	6 th consolat	ion				356		
SBI and Synd Innovate	-								
2019		Innovate							
		ovate		Syndicate	Bank	•		04	
		Rs, 10000/-	- cash	5,	-4111	=			
		prize	56511						
Efficyle 2018		Winner of G	Gradient	Society o	f Aut	omotive Engineers		13	
		Simulator A		•		n India Section			
		(Advances	waiu	(3/46)- 1101	11111	n maia Jection			
		category)							
		Utility							
			ion						
		Demonstration Award							
		(Advances							
		(Auvances					J		

		category) & cas award	h					
Baja SAE India20:	19	Pride of Punjab)	Baja SAE India			21	
7 th Go Kart Design Season6-2019-20	n Challenge	Design Evolution		ISNEE(Indian Society o Engineers)	f New Era		24	
		1st Disassemble te	est-					
		Accetation-4th						
		Skid-Pad-3rd						
		Endurance - 4th						
		Overall- 3 rd Tear						
		Best Captain Award						
SSB Course conducted at Kamptee during 16Sept to 25th September 2019		Overall second senior among a the selected NC cadets of India		OTA(Officers Training A Kamptee	Academy)		01	
-				Government Organisation ender Issue, etc. during t		nment (Organisations and	
Name of the scheme	Organising unit collaborating a	/ agency/ Name of the activity		Number of teachers coordinated such activiti		Number of students participated in such activities		
Swachhta sewa	Unnat Bharat A	\hhivan	Dh.	asing out of single use	02	es	405 approx.	
Campaign from 11.09.19 to 02.10.2019	Office Briandt P	Komyan	plas		02		403 арргох.	
Swachhta Hi Sewa-2019 from 11.09.19 to 27.10.2019	Swacjh Bharat	Mission	Orgnized the "Swachh SLIET Abhiyan" on 2 nd Oct- 2019		Chief Warden, All Wardens & Caretakers		982 approx.	
Ek Bharat Shreshtha	EBSB Team SLI	ET		gging Event (picking up litter while running)	02		172 approx.	
Bharat				17.01.2020				
Half Marathan - 2020	District Admini Sangrur	stration,	5 K.	.M. Fun Run on 02.2020	Chief Warde Wardens & Caretakers	en, All	357 approx.	
"Village adoption scheme "under social responsibility scheme	NCC &NSS SLIE Unnat Bharat A scheme, MHRE	Abhiyan		motion of digital iatives	02		NCC and NSS cadets	
Plastic free campaign (Swachhata hi Seva 2019) from 11th sep to 27th october,2019	NCC &NSS SLIE Longowal/MHF			stic waste awareness eration	02		NCC and NSS cadets	
Swachh Sarvekhan Gramin 2019	SLIET, Longowa	l/DC Sangrur		wnloading SSG2019 o through Google play re	23		All students	
Computational	Softpro India C	omputer	Two	o days workshop	2		187	
skills	Technologies (F	P) Ltd, Lucknow	for	UG SLIET				

Enhancement			students on "Python"	with			
workshop			IOT"	*******			
			for improving				
			their coding skills				
Entrepreneurshi	EDII and STEP		Entrepreneurship		01	70	
p	LDII alla STEI		Awareness camp		01	70	
EMD	AICTE		Entrepreneurship		01	100	
LIVID	AICTL		Awareness camp		01	100	
	SLIET		Webinar on EDP		01	30	
	SLIET		Sunny Karawala		01	30	
			Founder				
			and CEO of SPACE				
			TECHNOLOGY AND				
			AERONAUTICAL				
			ROCKETARY STAR LAB	c			
			INDIA	5			
	CLIET		Rural Development		02	80	
	SLIET		Workshop		02	JO	
	SLIET		·	000	02	150	
	SLIET		Workshop on Happiness and Wellbeing		02	130	
	SLIET		Celebration of		03	160	
	SLIET		Constitution day		03	100	
	SLIET		•		03	150	
	SLIET	Workshop on Opportunities			03	130	
			and Challenges in				
			Canada				
3.7 Collaborations	<u> </u>		Canada				
	S Collaborative activities f	or rocoard	h faculty aychango ctu	dont o	vehange during the year	r	
						Duration	
Nature of Activity		Participa		Sour	ce of financial support	Duration	
Freehammer visit von	dan Bararanda Burisak		bir Singh, SRF, ASEAN-	Depa	artment of Science and	04.84	
Exchange visit und	der Research Project		llaborated R&D	Tech	nology, New Delhi	01 Month	
		Project	Van Diana Instituta of				
			Van Pham, Institute of				
Research Fellowsh	hip		Science, Vietnam	FICC	I, New Delhi	06 Months	
			y of Science and				
CTTD on Material	Characterism 0	rechnoic	ogy, Hanoi, Vietnam				
	Characterization &						
Analytical Technic			A N. 4 la	TEO	D 111	05 -1	
Applications in Co		55 Facul	ty Members	TEQ	P- III	05 days	
	nysics and Mechanical						
Engineering, SLIET						+	
Short Term Course		25 5-2-1	tu Mambara	TEO	D III	OF days	
	g Gaussian Software in	35 Facul	ty Members	IEQI	P- III	05 days	
Collaboration with	•					+	
Visiting Professor	_	01		NALIE	D COL	OF Months	
(Secondment of In	· · · · · · · · · · · · · · · · · · ·	01		IVIH	RD, GOI	05 Months	
foreign Universitie	es by MHKD)						

3.7.2 Linkages with instituetc. during the year	tions/industries for inte	ernship, on-the-job training	, project work,	sharing of rese	earch facilities
Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From)	Duration (to)	Participant
Internship/Training	Internship/Training	VARDHAN CONSULTING	May 2020	July 2020	30
Industrial of SLEIT	Program	ENGINEERS			

Students					
	Internalia /Tuninia	CETDA INICOTECIA DIAT	N4=+ 2020	1 2020	02
Internship/Training	Internship/Training	CETPA INFOTECH PVT	May 2020	July 2020	03
Industrial of SLEIT	Program	LTD			
Students			1		
Internship/Training	Internship/Training	UDEMY	May 2020	July 2020	55
Industrial of SLEIT	Program				
Students					
Internship/Training	Internship/Training	INTERNSHALA	May 2020	July 2020	10
Industrial of SLEIT	Program				
Students					
Internship/Training	Internship/Training	HEBEON	May 2020	July 2020	07
Industrial of SLEIT	Program	TECHNOLOGIES PVT.			
Students		LTD.			
Internship/Training	Internship/Training	TCS ION	May 2020	July 2020	05
Industrial of SLEIT	Program	165 1611	1000	34.7 2020	
Students	Trogram				
Internship/Training	Internship/Training	AICTE	May 2020	July 2020	01
Industrial of SLEIT		AICTE	Iviay 2020	July 2020	01
	Program				
Students	lates 1: /= · ·	ININACYUSU	NA- 2022	1	01
Internship/Training	Internship/Training	INMOVIDU	May 2020	July 2020	01
Industrial of SLEIT	Program	TECHNOLOGIES PVT.			
Students		LTD.			
Internship/Training	Internship/Training	E&ICT ACADEMY IIT	May 2020	July 2020	01
Industrial of SLEIT	Program	KANPUR			
Students					
Internship/Training	Internship/Training	SOLITAIRE INFOSYS	May 2020	July 2020	06
Industrial of SLEIT	Program	PRIVATE LIMITED			
Students					
Internship/Training	Internship/Training	TATA IRON AND STEEL	May 2020	July 2020	01
Industrial of SLEIT	Program	COMPANY LIMITED	1 '		
Students		(TISCO)			
Internship/Training	Internship/Training	INDIAN RAILWAYS	May 2020	July 2020	01
Industrial of SLEIT	Program		,	30, 2020	
Students	1 Togram				
Internship/Training	Internship/Training	NFL NANGAL	May 2020	July 2020	01
Industrial of SLEIT	-	MENANGAL	IVIAY 2020	July 2020	01
Students	Program				
	Laterna de la /Tradición a	LUNDALCO DENULVOOT	NA 2020	1.1. 2020	01
Internship/Training	Internship/Training	HINDALCO, RENUKOOT	May 2020	July 2020	01
Industrial of SLEIT	Program				
Students			1		
Internship/Training	Internship/Training	INDIAN INSTITUTE OF	May 2020	July 2020	01
Industrial of SLEIT	Program	CHEMICAL			
Students		TECHNOLOGY,			
		HYDERABAD			
Internship/Training	Internship/Training	BUREAU OF ENERGY	May 2020	July 2020	01
Industrial of SLEIT	Program	EFFICIENCY			
Students					
Internship/Training	Internship/Training	CETPA INFOTECH	May 2020	July 2020	03
Industrial of SLEIT	Program				
Students	-				
Internship/Training	Internship/Training	NORTH BIHAR POWER	May 2020	July 2020	01
Industrial of SLEIT	Program	DISTRIBUTION		,	-
Students		COMPANY LIMITED			
Internship/Training	Internship/Training	SOFTPRO GROUP	May 2020	July 2020	03
Industrial of SLEIT	Program	JOI II NO GROUP	Ividy 2020	July 2020	03
Students	FIOGIAIII				
	Internals in /T ! !	CCDN TECHNIOLOGIEC	Mar: 2020	July 2020	01
Internship/Training	Internship/Training	SSDN TECHNOLOGIES	May 2020	July 2020	01

Industrial of SLEIT	Program	PVT. LTD.			
Students	Flogram	PVI. LID.			
Internship/Training	Internship/Training	COURSERA	May 2020	July 2020	15
Industrial of SLEIT	Program				
Students					
Internship/Training	Internship/Training	ALIGARH MUSLIM	May 2020	July 2020	01
Industrial of SLEIT	Program	UNIVERSITY			
Students					
Internship/Training	Internship/Training	GULATI CHEMICALS	May 2020	July 2020	01
Industrial of SLEIT	Program				
Students					
Internship/Training	Internship/Training	TIRHUT DUGDH	May 2020	July 2020	04
Industrial of SLEIT	Program	UTPADAK SEHKARI			
Students		SANGH			
		LIMITED, MUZAFFARPUR			
Internship/Training	Internship/Training	SUDHA DAIRY, BARAUNI	May 2020	July 2020	02
Industrial of SLEIT	Program				
Students					
Internship/Training	Internship/Training	SMC FOOD LIMITED	May 2020	July 2020	02
Industrial of SLEIT	Program				
Students					
Internship/Training	Internship/Training	QOS TECHNOLOGY	May 2020	July 2020	03
Industrial of SLEIT	Program				
Students					
Internship/Training	Internship/Training	ITC KOLKATA	May 2020	July 2020	01
Industrial of SLEIT	Program				
Students					
Internship/Training	Internship/Training	BONN NUTRIENTS	May 2020	July 2020	02
Industrial of SLEIT	Program	PRIVATE LIMITED			
Students					
Internship/Training	Internship/Training	MONDELEZ	May 2020	July 2020	02
Industrial of SLEIT	Program	INTERNATIONAL			
Students		CADBURY, BADDI			
Internship/Training	Internship/Training	LUDHIANA BEVERAGES	May 2020	July 2020	05
Industrial of SLEIT	Program	PVT.LTD. (COCA COLA)			
Students		DEDGLOG INIDIA			22
Internship/Training	Internship/Training	PEPSICO INDIA	May 2020	July 2020	03
Industrial of SLEIT	Program	HOLDINGS PRIVATE			
Students	Danier and	LIMITED	04 /02 /2040	24 /04 /2024	2
Research Project	Design and	Institute of Material	01/02/2018	21/01/2021	3
	Development of	Science, Vietnam			
	Novel	Academy of Science			
	Optoelectronic	and Technology, Hanoi,			
	Device for High	Vietnam			
	Speed Reconfigurable				
	Optical Access				
	Networks				
Research Project	Optical Metrology	Institute of Applied	11/03/2019	10/03/2021	2
nesearch Froject	of Ultra Short	Physics, Russian	11/03/2019	10,03,2021	
	Pulses for Design	Academy of Sciences,			
	of Flexible MIMO	Novgorod, Russia			
	based Next	ivovgorou, itussia			
	Generation Optical				
	Communication				
			i .		Ī
	Networks				

	Fiber Bi		Science, Vietnam Academy of Science and Technology, Hanoi, Vietnam					
Industry Sponsored	Joint Re	esearch	ECFL, Ludhiana	February-	Februar	·y-	1	
Programme of Ph.D.	Progran	nme		2020	2023			
3.7.3 MoUs signed with inst		of national, in	ternational importance, ot	her universitie	s, industri	ies, co	rporate	
houses etc. during the year		T = .	T		1			
Organisation		Date of MoU signed	Purpose and Activities			stude	ber of ents/teachers cipated under s	
Indian Institute of Food Prod Technology, Thanjavur (IIFPT)	cessing	13/01/2020	for internship, on-the-jo work, sharing of researc		ect	02		
Federal Research Center, Ins of Applied Physics of the Ru Academy of Sciences (IAP Ra Ulyanov Street, Nizhny Nov Russia	ssian AS), 46	06/07/2019	Internship, on-the-job tr sharing of research facili conference, etc.			02		
Atal Bihari Vajpayee Govt. Institute of Engineering and Technology, Pragatinagar, Shimla			Exchange of scientific an information, visits by an students for the purpose research, undertaking coactivities, jointly organiz seminars, workshops, cotraining etc.					
Guru Nanak Dev University, Amritsar (Punjab) 26/09/20		26/09/2019	GNDU, Amritsar can offer internship for the studer start teaching and R&C carea of Food Technology PG projects thesis/ dissert consultation, etc.	ngowal, n the JG and				
Maharaja Ranjit Singh Punja Technical University (MRSPT Bathinda (Punjab)		26/09/2019	MRSPTU, Bathinda can c internship for the studer UG students of MRSPTU	MRSPTU, Bathinda can offer summer/ winter internship for the students of SLIET, Longowal, UG students of MRSPTU, Bathinda can also opt for lab experiments and internship, start				
Eastman Cast & Forge Limited, Ludhiana (Punjab)			Collaboration in research the areas of low-cost aurelectroplating of hand to SLIET, Longowal student industrial staff for Ph.D. Longowal, as industry spexchange of research mapublication of research piournals of repute and copresentations, ECFL will training to ICD/UG & PG	nip to of ECFL T, date, tific	03			
Indian Institute of Food Prod Technology (IIFPT), Thanjavo	_	10/01/2020	Joint consultancy for ind research projects/in-plan Coordination of joint research product do incubation services with and industries, exchange and research materials interests	ustries, studen nt trainings, earch projects evelopment an research instit e of documenta	and d cutes ation			

Meritorious School Ghabdan (Sangrur)	06/02/2	020	organizing Workshop	change, Student exch gioint Conferences, S as, STs, Use of each of ture facilities	eminars,			
Collaboration between University of West Attica (UNIWA), Athens Greece	13/02/2	020	ERASMUS	+ Framework				
Gigabyte Networks Pvt. Ltd., Rakh Bagh., Ludhiana (Punjab)	03/07/2	020	Products, exchange information Seminars,	ent of UV/Light Tech visit and personnel e of Scientific and Tech on, co-organization of Symposia and Confe	xchange, nnical f STP/FDP, rences	01		
Universiti Kebangsaan Malaysia (The National University of Malaysia)	14/07/2	020	develop a developm	r to strengthen, pron cademic, research, in ent, and capacity bui of equality and mutu				
Meritorous School, Sangrur	14.09.20	019		· · · · · · · · · · · · · · · · · · ·				
Ministry of Education (earlier known as MHRD), New Delhi	15.05.20							
CRITERION IV – INFRASTRUCTURE A	AND LEARN	ING I	RESOURCES					
4.1 Physical Facilities								
4.1.1 Budget allocation, excluding s			ructure aug					
Budget allocated for infrastructure	augmentat	ion		Budget utilized for	infrastructure c	levelopment		
Rs. 600.00 Lakh				Rs. 506.60 Lakh				
4.1.2 Details of augmentation in inf	rastructure			the year				
Facilities		Existing				y added		
Campus area		447 Acres						
Classrooms		66 Nos.						
Laboratories		132						
Seminar Halls Classrooms with LCD facilities		6 7			10			
Classrooms with Wi-Fi/ LAN	+	7			26			
Seminar halls with ICT facilities						6		
Video Centre						2		
No. of important equipment purcha 1-0 lakh) during the current year.	ased (≥	506			59			
Value of the equipment purchased the year (Rs. in Lakhs)	during	2468	315512		5616	8758		
Others		1			+			
Guest House Health Centre		1			-			
Shopping Complex		1			-			
Restaurant		1			-			
Shops Alt-2		3						
Shops near Transit Accommodation	1	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			-			

						Г				
Swimming Pool		1					-			
LPG Godown		1					-			
Community Centre		1					-			
Electrical Sub Station		2					-			
Over head Tank		2					-			
Sports Complex		1				-				
Stadium		1	•			-				
Student Activity Centre		1					-			
Hostels		1	.3				-			
K.V School		1	-				-			
Houses		5	05				-			
Director Residence		1					-			
		1	.0				-			
Workshops										
4.2 Library as a Learnin										
4.2.1 Library is automat		1	_	System (ILN	1S)}					
Name of the ILMS softv	vare	Nature o		Version			Year	of automat	on	
			ion (fully or							
		partially								
Alice for Window		Partially		6.00			2002			
4.2.2 Library Services:				Newly adde						
	Existing					To				
	No.	Value		No.	Value	No			Value	
Text Books	98189		1711	4549	2412576		2738		344287	
Reference Books	5291	6012	700	100	280508	53		62	93208	
e-Books				337	2043321.92		7	204		
Journals	8812		085.00			88			56085.00	
e-Journals	4930	92.00		5682	97.00 lac		10612		9.00 lac	
Digital Database	03		sored	03	Sponsored 0				onsored	
CD & Video	3297	2094	.00	150			27	20	9400	
Library automation										
Weeding (Hard & Soft)	2608	4512	48	195			03	49	2818	
Others (specify)	1264			103	13		67			
(M.Tech. & Ph.D. thesis										
4.2.3 E-content develo SWAYAM other MOOCs System (LMS) etc Name of the teacher		Name o	T/any other of the	Government		& instituti	ional (Le		agemen	
		module		develope	ed .		conter	nt		
4.3 IT Infrastructure										
4.3.1 Technology Upgra			T	1		1		1		
Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart	ments	Available band width (MGBPS)	Other	
Existing 2744	20	1	24	02	46	1	.1	1		
Added 171	0	0	0	0	0		0	0	0	
Total 2915	20	1	24	02	46		.1	1	0	
4.3.2 Bandwidth availal		connectio	l .	l	_	1		1		
1 Gbps connectivity fro				•	,					
4.3.3 Facility for e-cont										
Name of the e-content		facility*		Provide	the link of	the video:	s and me	edia centre	and	

NEPTEL Video Lectures		10.1.0.102 Local Guru available on intranet					
	·						
4.4 Maintenance of Campus Infrast	4.4 Maintenance of Campus Infrastructure						
4.4.1 Expenditure incurred on main	tenance of physical facilities	and academic support facilities,	excluding salary				
component, during the year							
Assigned budget on academic	Expenditure incurred on	Assigned budget on physical	Expenditure incurred				
facilities	maintenance of academic	facilities	on maintenance of				
	facilities		physical facilities				
2460 Lakh	1385.24 Lakh	2435 Lakh	1370.79 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 Late Sh. Harchand Singh Ji, 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: 10 Boys Hostels, 03 Girl Hostels and 01 PG Hostel (Girls), with an upgraded facilities like Sports grounds, Wi-Fi, Bed, Mattress, Table, Chair, TV room, Carom Board, Volleyball Ground etc.. The academic buildings are Science Block, Mechanical Block, Workshops, Chemical & food Block, Computer Block, Electronic Block Old, Electronic Block New, EDP Block, Library Buildings, Student Activities Centre.

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 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.

The Institute also has 505 Residential quarters for the employees of all categories: Type-I = 72, Type-II = 90, Type-III = 219, Type-IV = 84 & Type-V = 40.

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

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

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 S					Т
		of the scheme	Number of	students	Amount in Rupees
Financial support from Pinstitution	oor Studer	nt aid fund	ICD-15		Rs.38100/-
Financial support from Pinstitution	oor Studer	nt aid fund	UG-08		Rs.89150/-
					Do 1 27 250/
Total					Rs.1,27,250/-
Financial support from other source			F0F		As manths mannes of
	National Sch		505		As per the norms of
		te Scholarship			funding agencies
1 -	ortal Jil		Nil		Nil
.,				a a Caft abill days	
5.1.2 Number of capability enhance		•			opment, Remediai coaching
Language lab, Bridge courses, Yog				Number of	A sourcion investored
Name of the capability enhancemoner scheme	ent	Date of impler	nenduon	students	Agencies involved
ocheme				enrolled	
Online Coding Competition "Code	Cracker	Aug. 28 th -29 th	2010	91	Hackerrank.com (SSDC)
19"	Cracker	Aug. 28" -29"	, 2019	91	наскеттапк.сот (550С)
MOCK TEST (Companies Placemen		Sept. 4 th , 2019		80	SSDC
14 Days Workshop on "C Programı	ming"	Sept. 9 th -22th	, 2019	188	SSDC
Online Coding Competition "Mind	Stormer	Sept. 14 th -15 th	, 2019	89	Hackerrank.com (SSDC)
S1"					
Online Coding Competition "Code		Oct. 13 th 2019		66	Hackerrank.com (SSDC)
Online Coding Competition "MindStormer- D1 SSDC"		Dec. 15 th -16 th , 2019		44	Hackerrank.com (SSDC)
Online Coding Competition "MindStormer- Feb20"		Feb. 24 th -25 th , 2020		52	Hackerrank.com (SSDC)
Online Coding Competition "MindStormer- Apr-20"		April 4 th – 5 th , 2020		106	Hackerrank.com (SSDC)
1-day Workshop on "Cybersecurity Ethical Hacking"	y &	Jan. 28 th 2020		170	A2IT Pvt. Ltd, Chandigarh (SSDC)
14 Days Workshop on "Python		Feb. 9-22, 2020		94	cppsecrets.com (SSDC)
Programming" Yoga in Faculty Club		Regular basis till 9 th		10	Health & Meditation
loga III i acuity Club		March, 2020		10	club
Meditation		3 days in a wee		10	Health & Meditation
		March and after that			club
		online			
International Yoga day Celebration	1	22, June, 2020 own home	at their	50	Health & Meditation club
Pilot Program on "Soft Skills Profic	iency for	Aug. 21- Sept.:	21, 2019	60 student	Communication Skills
Employability of Engineering Grad	-		•	participated	And Personality
, , ,					Development Club
Workshop on Etiquettes And		11 th -13 th Feb.,	2020	345 enrolled	C.S.P.D C.
communication Skill(03 No)	1				
Workshop on "Basic English Speaking Skills"		18 th -19th Feb.,2020		125 enrolled	C.S.P.D C.
Workshop on "Enhancing English Skills"	Speaking	18 th -19th Feb.	,2020	110 enrolled	C.S.P.D C.
Work shop on Happiness and Wellbeing		5 th -7 th Aug.2019		150 enrolled	Counselling and Soft Skil
Workshop on Opportunities and C in Canada	hallenge	22.08.2019		150 enrolled	Counselling and Soft Skil
Student Induction program under	Universal	04-10 January	ı, 2020	55	Sponsoed by AICTE
Human Value	1		1		

Student Induction on Universal Human Values	15-17 November 2019	53	Sponsored by AICTE
Nano-electronic & VLSI: Devices, Circuits and Systems	04-08 November 2019	40	Sponsored by AICTE
3D printing & Design	09-13 December, 2019	49	Under ATAL-AICTE
Workshop on "Machine Learning"	16th April, 2020	200	Expert talks by CETPA Infotech Pvt. Ltd.
Training program on PLC, drive and industrial automation	02-06 March, 2020	30	Under TEQIP-III
Material Characterization & Analytical Techniques for Research Applications (MCATRA-2019)	01-05 July, 2019	50	Under TEQIP-III
STTP on Material Characterization & Analytical Techniques for Research applications	01-05 July, 2019	16	Under TEQIP-III
STC on DFT & its applications using Gaussian software	24 -28 February, 2020	8	Under TEQIP-III
Online STC on Analytical Techniques in the realm of Molecules & Materials	26-30 June 2020	51	Under TEQIP-III
STTP on Material Characterization & Analytical Techniques for Research applications	01-05 July, 2019	39	Under TEQIP-III
STC on DFT & its applications using Gaussian software	24-28 February, 2020	27	Under TEQIP-III
Online STC on Analytical Techniques in the realm of Molecules & Materials	26-30 June 2020	192	Under TEQIP-III
A Motivational and Torchbearer Workshop on 'Entrepreneurship – Dream to be an Industrialist'	04th September 2019	80	Under TEQIP-III
Motivational workshop on 'Entrepreneurship'	29th August 2019	90	Sponsored by SLIET
Workshop on C Programming Language	09-22 February 2020	188	Sponsored by SLIET
Nano-electronic & VLSI: Devices, Circuits	04-08 November 2019	40	Under TEQIP-III
and Systems			
Low Frequency (LF) and High Frequency Design (HF) Using TaraNG:19.0"	05-06 October 2019	40	Under TEQIP-III
SWAYAM Workshop for Students to mark celebration of Engineers Day	15th September 2019	192	Under TEQIP-III
Industrial Visit of Students at Diesel Manufacturing workshop (DMW), Govt. of India, Patiala Punjab	18th December 2019	38	Under TEQIP-III
Workshop on IIT with python at SLIET Longowal	08-09 February 2020	187	Softpro India Computer Technologies Pvt. Ltd. in association with Techfest'20
Productivity Enhancement Program (PEP)	26-31 August 2019	25	Under TEQIP-III In collaboration with VVKI Banguluru
Workshop on HACCP	19-20, October 2019.	30	Collaboration with IITT, Dehradun and RFRAC, Lucknow
World Food Day (WFD) celebration Processed Products manufacturing at pilot plant scale by the students of departmental under self-help group, Quiz competition, Poster Presentation, Product Development, Food craft, Cross word competition etc	07 days 14-20 October 2019	250	Society of Food Technologists AFST(I) Longowal Chapter

Workshop on Entrepreneurship	02-03 August 2019	80	Sponsored by SLIET, Longowal
Workshop on Opportunities in Food Processing Sector	7th November 2019	60	Sponsored by SLIET, Longowal
Workshop on Opportunities in Chemical Engineering Sector	24th February 2020	40	Sponsored by SLIET, Longowal
Start up Kshetra (Case Study Competition)	02 Days	30	Under TEQIP-III
Webinar on EDP	01-04 May 2020	30	Sponsored by SLIET, Longowal
Webinar on EDP	10 May 2020	28	Sponsored by SLIET, Longowal
Webinar on EDP Sunny Karawala Founder and CEO of Space Technology and Aeronautical Rocketary Star Labs India	17th May 2020	30	Sponsored by SLIET, Longowal
Entrepreneurship Awareness Camp	13-15 February 2020	70	Sponsored by SLIET, Longowal
Entrepreneurship Awareness Camp	26th September 2019	100	Sponsored by SLIET, Longowal
Rural Development Workshop	11th October 2019	100	Sponsored by SLIET, Longowal
Celebration of Constitution Day	26th November 2019	160	Sponsored by SLIET, Longowal
Industrial Quality Tools	16-17 October, 2019	60	Under TEQIP-III
Preparation of Business Plan and Detailed Project Report	02-03 March, 2020	40	Sponsored by SLIET, Longowal
Industrial Motivational Campaign for youth	19-20 February, 2020	100	Under TEQIP-III
An Educational Trip to IISER Mohali for M.Sc. (Physics) Students	18th September 2019	20	Sponsored by IISER Mohali
AICTE Training and Learning (ATAL) Academy Sponsored Workshop on "Internet of Things"	14-18 October, 2019	46	Under TEQIP-III

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

Year	Name of the	Number of	Number of	Number of students	Number of
	scheme	benefited	benefited students	who have passed in	students
		students by	by Career	the competitive exam	placed
		Guidance for	Counselling		
		Competitive	activities		
		examination			
2019-2020	TEQIP-III	266	-	39	Not available
2019-2020	TEQIP-III	-	60	-	Not available
	Pilot	129	-	-	-
	Programme				
	on Soft skills				
	Proficiency				
	for				
	Employability				
	of				
	Engineering				
	Graduates				

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

The Institute has constituted Anti-Ragging Committees/squad for different academic blocks, shopping complex, Hostels, Student Activity Centre and other areas of the Institute. The Institute has also constituted Internal Complaints Committee,

to ensure congenial working environment which is free of sexual harassment or gender based discrimination for all women employees and students.					
Total grievances received No. of grievances redressed Average number of days for grievance redressal					
0	0	90 days as per provision contained in the Act			
No student ragging case was reported during academic year 2019-2020	0	0			

5.2 Student Progressi					
5.2.1 Details of campu	us placement du	ring the year	044 0		
On Campus		l., , ,	Off Campus		
Name of Organization Visited	Number of Students Participated	Number of Students Placed	Name of Organization Visited	Number of Students Participated	Number of Students Placed
INFOSYS LIMITED	145	25	MAHINDRA & MAHINDRA LTD.	03	02
ISGEC HEAVY ENGINEERING LTD, YAMUNA NAGAR	40	03	TATA CONSULTANCY SERVICES	52	20
CAPGEMINI TECHNOLOGY SERVICES INDIA LIMITED	110	22	COGNIZANT TECHNOLOGY SOLUTIONS INDIA PVT LTD.	28	06
HINDUSTAN UNILEVER LIMITED, GURUGRAM (HUL)	84	01	SCOOBEE PET FOODS PVT. LTD.	01	01
DEBUT INFOTECH PVT. LTD.	51	02	OMNINOS SOLUTIONS, MOHALI	01	01
CGI INFORMATION SYSTEMS & MANAGEMENT CONSULTANT PVT.LTD.	65	03	MAHARANI INNOVATIVE PAINTS PVT. LTD	02	02
ASHRIYA INFOTECH PVT. LIMITED, MOHALI	42	05	QUIPH MEDIA PVT. LTD.	01	01
GODREJ & BOYCE MFG. CO. LTD., MUMBAI	62	02	A.P ORGANICS LIMITED (RICELA GROUP)	15	07
SOFSTER, MOHALI	25	01			
RALSON INDIA LIMITED	40	03			
VARDHMAN TEXTILES LIMITED	78	06			
LIDO LEARNING (QUALITY TUTORIALS PVT. LTD.)	60	03			
QOS TECHNOLOGY WELSPUN CORP. LIMITED	15 28	03			
NESTLE INDIA LIMITED, MOGA	50				

F.										
HERO CYC	CLES	06								
LIMITED CLAAS IN	214	03								
LIMITED	ЛА	03								
KANDHAR	<u></u>	15								
BEVERAGI		13								
PVT.LTD. (-									
COLA)	000,1									
SAGAR MA	ACHINE	01								
TOOLS										
BHARAT II	NDUSTRIES	03								
/ BI RAIL										
DAWN MO	OTOR	06								
LUDHIANA	4									
5.2.2 Stud	lent progres	sion	to higher ed	lucati	on in percentag	ge during	the year			
Year	Number of	f	Programm	e	Department		Name of inst	itution joined	Nam	
	students		graduated		graduated fro	m			_	ramme
	enrolling in	nto	from						admi	tted to
	higher									
	education									
2020	01		B.E.		Computer Sci	ence &	Chandigarh l	-		er of
					Engg.		Gharuan, Mo	ohali	_	neering in
										puter
									Scien	
										neering with alisation in
									Artifi	
										igence and
									Mach	_
									Learr	
2020	01		B.E.		Computer Sci	ence &	Federation U	niversity		ers of
					Engg.			onsdale campus		nology
2020	02		B.E.		Computer Sci	ence &	IIT KHARAGP		M.B.	
					Engg.					
2020	01		B.E.		Computer Science &		NIT, Durgapur		COM	PUTER
					Engg.				SCIE	NCE &
										NEERING
2020	01		B.E.		Computer Sci	ence &	NITTTR, Char	NITTTR, Chandigarh		n Computer
					Engg.					ice and
										neering
2020	01		B.E.		Computer Sci	ence &	Punjabi uni p	oatiala	Mtec	ch
2020		-			Engg.					
2020	02		B.E.		Computer Sci	ence &	SLIET, Longowal		Pgcse	2
2020	01		B.E.		Engg.	hnolog:	UT De mahan		Mtec	·h
2020	01		B.E.		Chemical Tecl		IIT Bombay IITbhu			er of
2020	01		D.L.		Chemical leci	mology	IIIDIIU			nology
2020	01		B.E.		Electronics &	Comm	NIT Hamirnu	r, Hamirpur, HP	M Te	
2020	01		D.L.		Engg.	COIIIII.	i wii Hailiii pu	i, Hailiii pui, HF	101 16	C11
2020	01		B.E.		Electronics &	Comm.	Puniabi Univ	ersity Patiala	Elect	ronic and
					Engg.		,			nunication
									m.te	
2020	02		B.E.		Electronics &	Comm.	SLIET, Longov	wal		er of
					Engg.		, 1 30			neering
									(M.te	_
2020	01		B.E.		Electrical &		IIT Kanpur			Research)
		_			Instrumentat	ion				
									•	

			Engg.		
2020	01	B.E.	Food Engg. & Tech.	Indian institute of plantation	Post graduation
				management, malathalli,	diploma
				Banglore	management
2020	01	B.E.	Food Engg. & Tech.	School of science	Tripura civil service
2020	01	B.E.	Food Engg. & Tech.	SLIET, Longowal	M.tech in food engineering and technology
2020	01	B.E.	Food Engg. & Tech.	TOCKLAI TEA RESEARCH INSTITUTE	PG Diploma In Tea Processing And Management
2020	01	B.E.	Electrical & Instrumentation Engg.	Chanakya IAS Academy	Bihar public service commission
2020	01	B.E.	Electrical & Instrumentation Engg.	IIT Jodhpur	Cyber Physical System
2020	01	B.E.	Electrical & Instrumentation Engg.	IIT Jodhpur, Rajasthan	M.tech
2020	01	B.E.	Mechanical Engg.	IIT, Delhi	Ph.D. in Applied Mechanics
2020	01	B.E.	Mechanical Engg.	IIT, Delhi	Ph.D.
2020	01	B.E.	Mechanical Engg.	IIT, Delhi	Ph.D.
2020	01	B.E.	Mechanical Engg.	IIT, Indore	Mtech in Material science and engineering
2020	01	B.E.	Mechanical Engg.	Indian Institute of Technology, Tirupati	PhD
2020	01	B.E.	Mechanical Engg.	SLIET, Longowal	M-tech tecg
2020	01	B.E.	Mechanical Engg.	A.L.S	Upsc
2020	01	B.E.	Mechanical Engg.	IIT KHARAGPUR	intellectual property law
2020	01	B.E.	Mechanical Engg.	IIT KHARAGPUR	intellectual property law
2020	01	B.E.	Mechanical Engg.	NIT agartala	M.tech
2020	01	M.Sc.	Chemistry	ANNUVRAT MAHILA SHIKSHAK PRASHIKSHAN MAHVIDHYALAYABANKALI, BHILWARA	B.Ed
2020	01	M.Sc.	Chemistry	Institute of NanoSciene and technology, Mohali	PhD Chemistry
2020	01	M.Sc.	Chemistry	MDU, Rohtak	B.Ed
2020	01	M.Sc.	Chemistry	SLIET, Longowal	msc chemistry
2020	01	M.Tech.	Computer Science & Engg.	SLIET, Longowal	Doctor of Philosophy
2020	01	M.Tech.	Computer Science & Engg.	Thapar university	Phd
2020	01	M.Tech.	Food Engg. & Tech.	IIT Kharagpur,	Ph.D. in Food Engineering
2020	01	M.Tech.	Electrical & Instrumentation Engg.	MNIT, Jaipur	Doctor of Philosophy
2020	01	M.Tech.	Electrical & Instrumentation	NIT ROURKELA, ROURKELA (ODISHA)	PHD in ELECTRICAL

			Engg.		ENGINEERING
2020	01	M.Tech.	Electrical &	NIT Silchar	PhD
			Instrumentation		
			Engg.		
2020	01	M.Tech.	Electrical &	NIT Silchar	PhD
			Instrumentation		
			Engg.		
2020	01	M.Tech.	Electrical &	NIT Silchar , Assam	PhD
			Instrumentation		
			Engg.		
2020	01	M.Tech.	Electrical &	NIT, Silchar	Doctor of
			Instrumentation		Philosophy
			Engg.		(Ph.D.)
2020	01	M.Sc.	Mathematics	C.R college of education,	B.ed
				hissar(gju) Haryana	(BACHELOR'S OF
					EDUCATION)
2020	01	M.Sc.	Mathematics	Choudhary Banshi Lal	B.ed
				University bhiwani	
2020	01	M.Sc.	Mathematics	SLIET, Longowal	Pgmath
2020	01	M.Tech.	Mechanical Engg.	IIT KHARAGPUR, WEST BENGAL	DOCTOR OF
					PHILOSOPHY
2020	01	M.Sc.	Physics	BITS Pilani , Goa campus	Doctor of
					Philosophy
2020	01	M.Sc.	Physics	Modern college veer kalan	B.ed
2020	01	M.Sc.	Physics	SLIET, Longowal	MSC PHYSICS
2020	01	M.Sc.	Physics	SLIET, Longowal	Msc physics
5.2.3 Stu	udents qualifyi	ing in state/ nation	nal/ international level exa	minations during the year (e.g: NET/	SET/SLET /GATE/

Items	No. of Students selected/	Registration number/roll number for the exam
	qualifying	
GATE	39	CH20S38027083,
		CH20S38036008,
		CH20S38036072,
		CH20S38036360,
		ME20S28036124,
		ME20S28036276,
		ME20S28036074,
		ME20S28036128,
		ME20S18036222,
		ME20S28036156,
		ME20S23063152,
		ME20S18036156,
		EE20S58036206,
		EE20S58036100,
		EE20S58036051,
		EE20S58036291,
		EE20S58036025,
		EE20S58036250,
		EE20S58036038,
		EE20S58036033,
		EE20S58036227,
		EE20S58036192,
		IN20S18036013,
		IN20S18036093,
		IN20S18036081,
		EC20S48036096,
		EC20S48036112,

		CS20S68036066,
		CS20S68036300,
		CS20s68036192,
		CS20S68036330,
		CS20S68036032,
		CS20S68036012
		CS20S68036136
		CS20S68036114
		CS20S68036211
		CS20S68036062
		CS20S68036071
		XE20S38036543
NET	06	Uma (PB1116200332), Renu (434841),
		Anju (DL0116215189), Nishu (-),107801, PG/PHY/1750415
GMAT	11	CS20S68036066, CS20S68036300, CS20S68036192,
		CS20S68036330, CS20S68036032, CS20S68036012,
		CS20S68036136, CS20S68036114, CS20S68036211,
		CS20S68036071, CS20S68036062
State Government	01	20370700192
Services		
Any Other	01	A3-IN620-S-4383011
		20207970029

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

Activity	Level	Participants
Yoga	Inter technology university	12
	tournaments	
Volleyball	Inter technology university	22
	tournaments	
Basket Ball	Inter technology university	12
	tournaments	
Football	Inter technology university	18
	tournaments	
Cricket	Inter technology university	16
	tournaments	
Taekwondo	All India inter University	04
Madhuram / Social Fest	National	250

5.3 Student Participation and Activities

EFFICYCLE 2019

The 10th season of "Efficycle 2019" (Technological Advancement Season), a student competition by Society of Automotive Engineers Northern India section (SAE-NIS) was hosted at Lovely Professional University (LPU), Jalandhar from 01st-05th October 2019. This competition tasks for engineering students all over India to design and build human-powered vehicle namely "EFFICYCLE".

The Sant Longowal Institute of Engg. & Technology (SLIET), Longowal team "Green Rangers 2019" under the guidance of Dr Shankar Singh, Professor (Mechanical) as Faculty Advisor, conceptualized a green and innovative project, which required designing and later fabricating a three-wheeled hybrid human powered vehicle. This pollution free and reliable vehicle has the capacity to act as a good viable option for local transportation. Consequently, the SLIET team "Green Rangers 2019" (thirteen team members-11 from Mechanical and two from Electrical department) participated in Efficycle 2019- Advance Category. The vehicle number assigned was 108. The SLIET team outperformed the participating teams including IITs, NITs and were adjudged the Winner of Gradient Simulator Award (Advance Category) and Utility Demonstration Award (Advance Category), alongwith cash award. The Great achievement is usually born of great

sacrifice and excellent teamwork. The team under the dynamic guidance of Prof. Shankar Singh has been participating successfully in Efficycle events since 2014 and have brought several laurels for the institute. The aspirations and efforts of the team are well appreciated by Dr. Shailendra Jain, Director, SLIET.



SLIET Efficycle 2019 (#108)



SLIET Efficycle 2019 (#108) racing



Team "Green Rangers" with Director, SLIET



Director, SLIET riding Efficycle

BAJA SAE INDIA 2020

The 13th season of BAJA SAE INDIA 2020, a student competition by Society of Automotive Engineers (SAE) India, tasks for engineering students all over India to design and build an All-Terrain Vehicle (ATV). This event was hosted by Chitkara University, Chandigarh from 5 th March to 9 th March 2020.

SLIET, Longowal team 'Junkyard Warriors 2020' comprising 21 members designed and fabricated the All-Terrain Vehicle (ATV) [# 58 under the guidance of Prof. Shankar Singh Faculty Advisor, participated in the event.

The team bagged 'Pride of Punjab' award. The aspirations and efforts of the team are well appreciated by Dr. Shailendra Jain, Director, SLIET.



SLIET ATV 2020 (#58) "Pride of Punjab"







Winning Team "Junkyard Warriors" with Director, SLIET



7th GKDC 2020

SLIET Team 'JUGGERNAUTS' comprising of 24 members (of GME & GWT branch) participated in 7th Go Kart Design Challenge Season (GKDC) (2019-20), at Kari Motor Speedway, Coimbatore, Tamil Nadu from February 10, 2020 to February 14, 2020.

The team designed and fabricated the 'Go Kart' at SLIET under the guidance of Prof. Shankar Singh, Faculty Advisor. About the Event Go Kart Design Challenge is a competition initiated by Indian Society of New Era Engineers (ISNEE) to bring, to enhance, better engineering approaches and practices in degree students.

Performance at the Event: The **SLIET 'Team Juggernauts' (Kart No. #80; JORAWAR)** performed well at Kari Motor Speedway, and secured the following ranks –

- 1. Design Evaluation 1st
- 2. Disassemble Test 2nd
- 3. Acceleration 4th
- 4. Skid-pad 3rd
- 5. Endurance 4th
- 6. OVERALL 3RD Team '
- 7. Best Captain Award



Team 'Juggernauts' with Faculty Advisor







SLIET GO Kart No. #80; JORAWAR

	of awards/medals			orts/cultural activi	ties at national/ in	ternational level
Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
01.07.19	01	NIL	yoga	-	GFT- 1940160	RAHUL SINGH
					GCS- 1940021	ADARSH KUMAR
					CTP- 1810025	ABHISHEK RAJ
					CTP- 1810002	HARMANPRE ET
					CTP- 1810003	KHUSHDEEP
					CDE- 1810258	SHEKHAR KUMAR
01.07.19	01	NIL	Volleyball (G)		PG/CSE/195 0006	PRIYA LAXMI
					GCS/173096 0	AASHEEL KUMARI
					GCS- 1730962	ANKITA
					GCT- 1830163	KIRTI
					GEC- 1730982	ANJALI SINGH
					GEC- 1730981	KUMARI BEENA

				1	GWT-	BARKHA
					1731812	KUMARI
					GCS/193002	KHUSBO
					4	SAHNI
					DCS/CDE/17	GAGANDEEP
					12805	
					GCS/193006	NISHA
					7	KUMARI
					GCT/183075	KARAN RANA
					1	
01.07.19	01	Nil	Volleyball (B)	-	GME/17317	NITIN
					67	KUMAR
					GWT/17318	SHARANJIT
					18	
					GCS/193007	VISHAVA
					2	CHANDRA
					GIN/183036	ANAND
					4	KUMAR
					GWT/18310	KARAN
					60	
					GFT/193100	PARDEEP
					6	SHARMA
					CDE/181024	KUNAL
					6	
					GIN/193200	NIKHAL
					4	ANAND
					GIN/193200	AVINASH RAI
					3	, , , , , , , , , , , , , , , , , , , ,
				1	GFT/173194	ANKIT
					6	TANDAN
					GWT/19330	ABHISHEK
					47	KUMAR
					4/	KUIVIAN

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

There is no Student Council in the Institute, but the Institute has given due representation to its students in academic & administrative bodies/committees at Institute level/ department level/hostel level like IQAC Cell, Innovation Cell, Software Development Club, Internal Complaints Committee, Tech-Fest Committee, Sports Committees, Discipline Committee, Class Representatives etc, who are working for the welfare of students, round the clock. Some of them are as under:

STUDENT COUNSELLING SYSTEM at SLIET

The institute has adopted student counselling system for the benefit of the student. Each class after admission to the BE and ICD program shall be assigned to a Class Counsellor. Counsellor meets students once in a week. Students are expected to keep constantly in touch with their counsellors so that he may watch their progress and guide them for career progression, academic programme and registering in the semester. The course counsellors work one-on-one with students, performing a range of assessments to pinpoint their strengths and help them for improvement.

Student Mentor Scheme (SMS)

The Student Mentor(s) is a team of senior students to help junior students and are trained to offer help and support to new entrants throughout their campus life as well as academic activities. They are assigned the role of Student-Mentor for a batch of about twenty students from the same engineering department. The Student Mentors offer support in lots of areas like help in academic and non-academic queries or concerns, the students have, helping opportunities to meet other students from the course, referencing, subject notes and what to expect from the course, Students' Union

activities, clubs and societies to get involved in, using turn-it-in and Learning Central and helping prepare for competitive examination, insider tips on surviving the first year in the Institute and student life specific to the department, giving relevant, recent and reliable advice that they have been trained to provide, advice on accessing specialist support services etc.

TUTOR-GUARDIAN SCHEME (TGS)

Tutor-Guardian Scheme (TGS) has been introduced in S.L.I.E.T. Longowal to have one to one interaction with students. Teacher from same engineering department along with teachers from non-engineering departments is assigned the role of Tutor-Guardian for a batch of about twenty students. Teacher Guardian works as a friend, philosopher and guide for these students. He keeps the track of every student's day-to-day activities and records daily attendance, test results, internal assessment, preliminary examination results and other related information of students in a teacher guardian book. He motivates students to excel in their studies and also encourages them to participate in co-curricular & extracurricular activities and gives regular about the assigned students to the parents/guardians. He also counsels the students to solve difficulties encountered not only in college campus but in their personal lives too. The teachers of the institution take up the responsibility of safeguarding and nurturing the newly admitted students and help them to get acclimatized to S.L.I.E.T. environment. The students are free to contact the counselling service with a wide range of worries, including personal, home and family relationships, depression, anxiety and loneliness.

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 are registered with No. DIC/DRA/10723 of. 2017. The alumni Association working on the upliftment of students in various aspects.

5.4.2 No. of registered Alumni: 2500

5.4.3 Alumni contribution during the year (in Rupees): 70000

5.4.4 Meetings/activities organized by Alumni Association

5.4.4 Meetings/activities	s organized by Alumni Association :	
Date	Activity	Remarks
August 26, 2019	Mr Krishan Sharma (GIN/95) Manager Professional	The journey from Sliet to Oracle and
Abhivyakti	Services at NetSuite Oracle Mandeep Singh (GIN/95)	Opportunities in Software Company
	Associate Professor TIET	
August 30, 2019	SAAK Movie Produced by Mr Rupinder Minhas	Student Interaction with Cast
Movie Promotion		
August 31, 2019	Mr Ishan Goyal, Mr Subhash Kamboj, Abhishek	Visit to campus during C2C
Campus to Corporate	Wadhwa and Mr Lalit Singla	
September 9, 2019	Reunion Ludhiana Chapter	Meet of Ludhiana Chapter
October 7, 2019	Mr Rajnish Kumar Chaubey (GCS-99)	Almamater Visit
	Scientist, DRDO	
October 16, 2019	Mr Harpreet Singh Bhui (GWT-96) Director	Automation in Welding technology
Seminar	BRAHM Engineers	
February 15-16, 2020	Annual Alumni Meet SLIET Campus	Student Alumni Interaction
		Reunion Meeting with T&P
June 28, 2020	Mr Parveen (IT Director CIFF)	Webinar - A Journey to Top
,	,	, ,

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), Longowal 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, Longowal

or any other Competent Authority of the Institute may delegate his powers to other employees of the Institute for betterment of the Institute. Director, SLIET, Longowal 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. 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 (a) Central Library b) Central Admission Cell c) Examination Cell d) Accounts Section e) Store & Purchase Section. ERP Development in implemented in Academics section and progress is continue.

6.2 Strategy Development and Deployment

Globalization is the new paradigm, a driver for bringing about a change and has impact on nearly every economy. Present need of the hour for quality excellence is to think and act from the global perspective. To meet out challenges present situation requires efficient use of optimal resources and management tools. Competitive intelligence in India has a bright future and key tool in inculcating core competency amongst the various areas of the nation such as agriculture, health, engineering, transformation of technology, education and so on. Although intelligence does not guarantee organization with 100 percent success but gives an insight to ensure effective deployment of resources in the competitive environment for sustenance. To address this challenge SLIET, Longowal has taken new initiative by establishing war room in the year 2019. Under war room we have identified 8 pillars such as: (a) Branding Perception (b) Outreach & Inclusivity (c) Research and Professional Practices (d) Graduation Outcome (e) Infrastructure Creation (f) Financial Parameters (g) Students Counselling and (h) Academic Excellence. From 2019 onwards institute has arranged 5 war room meetings between internal faculty and expert under the guidance of management. Some of the initiatives have been taken as:

- a) Branding Perception To enhance the brand name' the institute has taken a leading role by advertising; quality of institute by broadcasting about SLIET, Longowal in Radio Mirchi and PTC Channel.
- b) Outreach & Inclusivity: To strengthen industry linkages at Local Area, Regional Area State Level and National Level Institute is putting its best efforts to sign MOU's with industry, interacting with institutions of repute.
- c) Research and Professional Practices: To get recognition at the global level institute faculty is establishing modern labs, getting MODROB and Thrust areas projects and publishing quality papers in the journals of repute.
- d) Graduation Outcome: For better placements of the students institute is visiting many industries all over India especially northern region Punjab, Haryana, Himachal Pradesh, Chandigarh, Noida Delhi and some other parts of the country. Training and Placement cell is also arranging expert talks and personality development programmes for skill up gradation of the students.
- e) Infrastructure Creation: To provide best inputs to the students' institution has taken a lead by providing good food, good accommodation, smart class rooms and internet facilities to the students.
- f) Financial Parameters: To utilize the resources and funds , accounts and audit department is preparing activities chart every year.
- g) Academic Excellence: To improve academic excellence institute is exploring new models of teaching, revision of course curriculum, timely conduct of examination, evaluation and monitoring of the students.
- h) Students Counselling: To guide the students' special cell Tutor Guardian scheme has been introduced and students have been allocated to every faculty- to increase the interaction between faculty and students and to involve them in

constructive activities.

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 Project 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 Centralized Counselling for M.Sc/M.Sc (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 Centralized Counselling for MTech / MArch/ MPlan (CCMT) along-with other NITs/IITs and Centrally Funded Technical Institute (CFTIs). The admission to MBA program is based on Common Management Admission Test (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

Year	Name of teacher	Name of conference/ workshop	Name of the professional	Amount of
		attended for which financial support	body for which membership	support (Rs.)
		provided	fee is provided	
2019-	Asim Ali Khan, AsP	International conference on		1,98,400.00
2020	(EIE)	communication		
2019-	Payal Malik, AP	STC on "Advanced Nanomaterials for		10,000.00
2020	(Chy)	Energy Storage Devices (NESD-2019)",		
		during 19/10/19 to 23/10/19 at NIT,		
		Kurukshetra.		
2019-	Anshuka Bansal,	ATAL Training Programme on "Internet		TA/DA as per
2020	AsP (EIE)	of Things (IOT)" at NITTTR, Chandigarh		rules.
		from 25/11/19 to 29/11/19.		
2019-	Sunil Kumar	ATAL Training Programme on "Internet		5400.00
2020	Bansal, AP (EIE)	of Things (IOT)"		2500.00
2019-	Vikas Nanda,	"46 th Apimondia International		1,14,000.00
2020	Professor(FOOD	Apicultural Congress" at Montreal,		

	EGG. & TECH.)	Canada, from 08/09/2019 to		1
	EGG. & TECH.)	12/09/2019		
2019-	Yogesh Kapil, AP	Advanced Training on "AIS – Advanced		36,000.00
2013	(Math)	Liner Algebra (2020)" from 11/05/20 to		30,000.00
2020	(iviatii)	30/05/20 at Indian Statistical Institute,		
		Bangalore.		
2019-	Yogesh Kapil, AP	International Conference on Recent		18,000.00
2020	(Math)	Advances in Algebra, Analysis &		10,000.00
2020	(iviacii)	Applications (ICRAAAA-2019) FROM		
		20/12/19 TO 22/12/19 AT Mohanlal		
		Sukhadia University, Udaipur		
		(Rajasthan)		
2019-	Amandeep Singh	"TMS 2020, 149th Annual Meeting &		2,00,000.00
2020	Shahi, Professor	Exhibition" scheduled to be organized		2,00,000.00
2020	(ME)	by The Minerals, Metals and Materials		
	()	Society, USA (TMS), at San Diego,		
		California, USA.		
2019-	Lalit Ahuja, AP	2nd International Conference on Recent		1,07,800.00
2020	(ME)	Advances in Materials & Manufacturing		
		Technologies (IMMMT 2019)" at BITS		
		Pilani Campus, Dubai (UAE) from		
		20/11/19 to 22/11/19		
2019-	Kanika Aggarwal,	3rd International Conference on		23,705.00
2020	AP (Physics)	"Condensed Matter & Applied Physics		
		(ICC-2019) at Govt. Engg. College,		
		Bikaner, Rajasthan during 14/10/19 to		
		5/10/19.		
2019-	Kanika Aggarwal,	STC on "Advanced Functional Materials"		13,790.00
2020	AP (Physics)	from 30/12/19 to 03/01/20 at NIT, Jal.		
2019-	Hemant Kumar,		Registration fee for 23 rd Pb.	2,000/-
2020	AP (Chemistry)		Science Congress	
2019-	Hemant Kumar,	-	Membership feePb. Academy	500/-
2020	AP (Chemistry)		of Science	
2019-	Shailendra Jain,		Renewal of IEEE Membership	6,090.00
2020	Director		for the year 2020	
2019-	Manpreet Singh		IEEE Annual Membership for	6,035.00
2020	Manna, AsP (EIE)		2020	
2019-	Dr. M.S. Manna,	Management Capacity Enhancement	-	8,685.00
2020	AsP (EIE)	Programme		
2019-	Dr. Amrik Singh,	STC on Advanced CA-CAM applications	-	11,806.00
2020	AsP (ME)	in CNC Machining		07.700.00
2019-	Dr. Amrik Singh,	Workshop on Low Cost Automation	-	37,703.00
2020	AsP (ME)	Culture towards Intelligent Automation		
2015	2 2 : 1	- Industry 4.0 (LCA)		07.700.00
2019-	Dr. Raj Kumar,	Workshop on Low Cost Automation	-	37,703.00
2020	AsP (EIE)	Culture towards Intelligent Automation		
		– Industry 4.0 (LCA)		
2019-	Dr. Manmohan	Training on Internet of Things	-	12,397.00
2020	Singh, AsP (EIE)			
2019-	Dr. Sunil Kumar,	Training on Robotics and Automation	-	0.00

2020 AP (ME) 6.3.2 Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year Title of the Title of the administrative No. of professional No. of training development participants participants To date Year programme From Date programme (Teaching (Non-teaching organised for staff) staff) organised for non-teaching teaching staff staff STTP on "Material 01st July 2019 5th July 2019 14 Characterization and Analytical 2019 Techniques for Research Applications" (SLIET, Longowal) 2nd March STTP on "PLC Drives 6th March 20 2020 and Industrial 2020 2020 Automation" 2020 26th June 2020 -30th June STC on Analytical 2020 Techniques in the realm of Molecules & Materials Materials Characterization & Analytical July-Techniques for 01/07/2019 05/07/2019 50 2019 Research **Applications** (MCATRA-2019) TEQIP- III Sponsored STTP on Materials Characterization and July-Analytical 01/07/2019 05/07/2019 30 2019 Techniques for Research Application TEQIP- III sponsored 02-day workshop on October-05/10/2019 06/10/2019 04 Low and High-2019 Frequency Designs using TaraNG:19.0 Organized a TEQIP-III Sponsored onweek short term Novemb 04/11/2019 08/11/2019 46 training Programme er- 2019 on Nano-Electronics & VLSI Circuits and Systems

Novemb er- 2019	TEQIP- III Sponsored STTP on Synthesis and Characterization of Multifunctional Materials held at NIT Uttrakhand, Srinagar Campus under twinning Programme	-	11/11/2019	15/11/2019	35	-
Novemb er- 2019	Faculty Development Programme under Universal Human Values	-	15/11/2019	17/11/2019	51	-
Decemb er- 2019	3D Printing & Design	-	09/12/2019	13/12/2019	49	-
January- 2020	Residential Faulty Development Programme on Student Induction under Universal Human Values	-	04/01/2020	10/01/2020	53	-
February - 2020	TEQIP- III Sponsored STTP on Advanced Functional Materials, Characterization & Applications was organized at MNIT Jaipur (Satellite Campus of NIT Uttrakhand) under twinning programme	-	29/02/2020	04/03/2020	27	-

programme

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	Number of teachers	From	То	Duration
programme	who attended			In Day
"46 th Apimondia International Apicultural	1	08.09.2019	12.09.2019	5
Congress" at Montreal, Canada				
"Third International Conference of	1	05.09.2019	08.09.2019	4
Mathematical Sciences (ICMS 2019)" organized				
at Maltepe University, Istanbul, Turkey				
2 nd International Conference on Recent	1	20.11.2019	22.11.2019	3
Advances in Materials & Manufacturing				
Technologies (IMMMT 2019)" at BITS Pilani				
Campus, Dubai (UAE)				
3 rd International Conference on "Condensed	1	14.10.2019	15.10.2019	2
Matter & Applied Physics (ICC-2019) at Govt.				
Engg. College, Bikaner, Rajasthan				

Advanced Training on "AIS – Advanced Liner	1	11.05.2020	30.05.2020	20
Algebra (2020)" at Indian Statistical Institute,	_	11.03.2020	30.03.2020	20
Bangalore.				
AMRP-2020	1	09-11-2020	11-11-2020	3
ATAL Training Programme on Internet of Things	1	25.11.2019	29.11.2019	5
(IOT)	_	23.11.2013	23.11.2013	3
Data Sciences	1	16-12-2019	20-12-2019	5
Deliver a Lecture	1	21-04-2020	22-04-2020	2
Developing Employability and Entrepreneurship	1	16-11-2019	17-11-2019	2
as Cornerstones in Higher Education	1	10 11 2013	17 11 2013	_
FDP on Student Induction Program under	31	04-01-2020	10-01-2020	7
universal Human Values	31	01012020	10 01 2020	,
ICT —Driven Innovation in Higher Education in	1	24-09-2019	25-09-2019	2
Asia Pacific'	1	24 03 2013	25 05 2015	2
IEEE International Conference on Digitization	1	18-11-2019	19-11-2019	2
(ICD-2019)	<u>.</u>	10 11 2019	15 11 2015	_
Indo Russian Joint Project	1	10-06-2019	23-06-2019	14
International Conference on Recent Advances	1	20.12.2019	22.12.2019	3
in Algebra, Analysis & Applications (ICRAAAA-	1	20.12.2013	22.12.2013	5
2019) AT Mohanlal Sukhadia University,				
Udaipur (Rajasthan)				
Japan-India-Russia Symposium on Geospatial	1	16-10-2019	18-10-2019	3
data for Environmental Monitoring (JIRSGEM) -	1	10 10 2013	10 10 2013	3
2019				
Leadership for Academicians Programme (LEAP)	1	11-11-2019	22-11-2019	12
Leadership for Academicians Programme (LEAP)	1	06-01-2020	10-01-2020	5
Machine Learning and Deep Learning	1	16-05-2020	20-05-2020	
Applications in Engg. & Science	1	10-03-2020	20-03-2020	
MATALAB Applications in Engg. & Science	1	27-05-2020	01-05-2020	6
Pedagogy of Scientific Writing , Reporting and	1	19-06-2020	23-06-2020	5
Scholarly Networks	1	19-00-2020	23-00-2020	J
SMP under Shastri Indo Canadian Institute in	1	11-02-2020	29-02-2020	18
the field 'Biological Sciences and	1	11-02-2020	25-02-2020	10
Bioengineering'				
STC on "Advanced Functional Materials" at NIT,	1	30.12.19	03.01.20	5
Jal.	1	50.12.15	03.01.20	5
STC on "Advanced Nanomaterials for Energy	1	19.10.2019	23.10.2019	5
Storage Devices (NESD-2019)", at NIT,	1	19.10.2019	23.10.2019	J
Kurukshetra.				
Steady dynamic and crep recovery studies and	1	09-07-2019	12-07-2019	4
modeling of Pearl millet starch	1	03-07-2019	12-07-2019	+
Summer Faculty Research Fellow Programme-	1	13-05-2019	14-07-2019	2
2019	1	13-03-2013	14-07-2013	۷
Vice Chancellors & Presidents' Summit	1	25-11-2019	26-11-2019	2
Women Scientists & Entrepreneurs Conclave	1	07-11-2019	08-11-2019	2
(WSEC)-2019'	1	07-11-2019	00-11-2019	۷
"TMS 2020, 149 th Annual Meeting & Exhibition"	1			
scheduled to be organized by The Minerals,	1			
Metals and Materials Society, USA (TMS), at San				

Diego, California, USA.				
-------------------------	--	--	--	--

6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):			
Teaching Non-teaching			
Permanent	Fulltime	Permanent	Fulltime
125	23	196	18

Teaching	All teaching and non-teaching staff has been provided Institute bus facility to purchase daily
Ü	need goods from Sangrur.
	The Institute has appointed Authorized Medical Attendants for providing medical assistance in emergency cases.
Non teaching	All teaching and non-teaching staff has been provided Institute bus facility to purchase daily need goods from Sangrur.
	The Institute has appointed Authorized Medical Attendants for providing medical assistance in emergency cases.
Students	Online/Offline Scholarship by State/ Govt. of India
	SC and OBC scholarship under Dr. Ambedkar Scheme Punjab State Government.
	**SC/ST/OBC/EBC scholarship under BIHAR State Government.
	Central Sector scheme for person with disability (N.S.P. 2.0)
	INDIAN –POSTAL services for the students of their employs.
	Minority Scholarship (NSP 2.0 Portal)
	MCM Scholarship
	SC, ST & OBC scholarship from Jharkhand State Govt.
	SC, ST & OBC scholarship from Himachal State Govt.
	SC and Gen. Scholarship from Utter Pradesh State Govt.
	SC, ST & OBC scholarship from Telangana State Govt.
	Scholarship for the students of Railway employs wards (Rail Coach Factory).
	Scholarship for the Punjab student's ward of Punjab Building and Constructing Workers Welfare, Board.
	State scholarship of Utrakhand State.
	State scholarship of Rajasthan State
	PMSSS for J & K students.
	Scholarship of Delhi Govt.

SC, ST & OBC scholarship from Haryana State Govt.
AICTE (Tuition Fee Waiver) .

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 2019-20.

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 shall be 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 2019-20 by the Audit Party AG Punjab and Audit Report for the year 2019-20 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) : 0

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
00	00	00

6.4.3 Total corpus fund generated 919.44 Lakh (as on 31.03.2020)

6.5 Internal Quality Assurance System

6.5.1 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Inte	ernal
	Yes/No	Agency	Agency Yes/No Authority	
Academic			Yes	Director, SLIET
Administrative			Yes	Director, 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)

As scheduled in academic calendar 2019-20, the parent-teacher meet was held on;

- 1. 11.10.2019 & 16.03.2020 UG/PG
- 2. 11.10.2019 & 21.02.2020 ICD

6.5.4 Development programmes for support staff (at least three)

No development programmes could be organized for the support staff due to COVID-19 pandemic.

6.5.5 Post Accreditation initiative(s) (mention at least three)

It is stated that the Institute has already filed SARs on the NBA portal for all the UG programs during the end of the year 2019 and starting of the year 2020. The dates for the expert team's visit were also filled up last year on the portal itself. However, due to Covid-19 pandemic, the visit of NBA team could not be

una	dertaken and hence the accredit	ration is in process						
6.5.6	actioner and Herice the acciedit	ation is in process.						
	Submission of Data for AISHE po	ortal Yes						
	Participation in NIRF	Yes						
	ISO Certification No							
	er of Quality Initiatives undertak							
	Name of quality initiative		Duration (from	Number of				
Year	by IQAC	Date of conducting activity	0)	participants				
	STTP on "Material	1st July 2019 to	5 days	14				
	Characterization and	5th July 2019	3 days	± ·				
2019	Analytical Techniques for	Survaily 2013						
2013	Research Applications"							
	(SLIET, Longowal)							
	STTP on "PLC Drives and	2 nd March 2020 to	5 days	20				
2020	Industrial Automation"	6 th March 2020	3 ddy3	20				
2020	madstral Automation	o Water 2020						
	STC on Analytical	26 th June 2020 to	5 days	0				
2020	Techniques in the realm	30 th June 2020	,					
	of Molecules & Materials							
2019	Materials							
	Characterization &	1 st July 2019 to						
	Analytical Techniques for	5 th July 2019	5 days	50				
	Research Applications	,	,					
	(MCATRA- 2019)							
2019	TEQIP- III Sponsored							
	STTP on Materials	1 st July 2019 to						
	Characterization and	5 th July 2019	5 days	30				
	Analytical Techniques for							
	Research Application							
2019	TEQIP- III sponsored 02-							
	day workshop on Low	5 th October, 2019 to						
	and High-Frequency	6 th October, 2019	2 days	04				
	Designs using							
	TaraNG:19.0							
2019	Organized a TEQIP- III							
	Sponsored on-week	Ath November 2010 to						
	short term training	4 th November, 2019 to 8 th November 2019	E days	46				
	Programme on Nano-	o MOVEIIIDEI ZUIS	5 days	40				
	Electronics & VLSI							
	Circuits and Systems							
2019	TEQIP- III Sponsored							
	STTP on Synthesis and							
	Characterization of	11 th November 2019 to						
	Multifunctional Materials	15 th November 2019	5 days	35				
	held at NIT Uttrakhand,							
	Srinagar Campus under							
	twinning Programme							
2019	Faculty Development	15 th November 2019 to	5 days	51				
	Programme under	17 th November 2019	J days	91				

	Universal Human Values	(5 days)		
2019	3D Printing & Design	9 th December 2019 to 13 th December 2019	5 days	49
2020	Residential Faulty Development Programme on Student Induction under Universal Human Values	4 th January 2020 to 10 th January 2020	5 days	53
2020	TEQIP- III Sponsored STTP on Advanced Functional Materials, Characterization & Applications was organized at MNIT Jaipur (Satellite Campus of NIT Uttrakhand) under twinning programme	29 th February 2020 to 4 th March 2020	5 days	27

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) : The ICC inquired into the complaints received under "Sexual Harassment of Women at Workplace (Prevention/Prohibition and Redressal) Act, 2013 as per provisions contained into the Act.

Title of the programme	Period (from-to)	Partici	pants
		Female	Male
Interactive Workshops on Gender Awareness/ Sensitization, for Girl students in GH-2 & 3	March 4th, 2020		
Cultural activities on Women's day	5 March 20		

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

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
- 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.
- 7. Percentage of power requirement of the University met by the renewable energy sources will be around 35% through Solar PV Power Plant as the process for installation of this project is in process.

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 ramps towards access to the 1st floor of building has also been provided for person with disabilities i.e 01 PWD ramp 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.

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	4
Provision for lift	No	NIL
Ramp/ Rails	Yes	4
Braille Software/facilities	No	NIL
Rest Rooms	No	NIL
Scribes for examination	Yes	4
Special skill development for differently abled students	No	NIL
Any other similar facility	No	NIL

7.1.4 Incl	7.1.4 Inclusion and Situatedness					
Enlist mo	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- 2020	01	01	22.11.2019	Green Diwali* (Under Happy Club)	Welfare of Workers & their family members	50
2019-2020	01	01	22.08.2019 to February 2020	**KOSHISH: EK NAYE UDAAN KI (Evening classes for construction workers Kids	The target students are of the age group 11-14 and are taught Mathematics, Science and English with the same syllabus as prescribed by	22

					the local	
2019-2020	01	01	26.06.2020	219 persons with disabilities provided with tricycles, hearing aids and wheelchairs.	State Boards. Social Justice and empowering the disadvantage d sections	3
2019-2020	01	01	14.06.2020	Ration provided to 235 needy families during COVID- 19 lockdown.	Social Justice and empowering the disadvantage d sections	3
2019- 2020	01	01	13.06.2020	School Bags, Stationery Items and Books distributed to children of disadvantage d groups and slum dwellers.	Social Justice and empowering the disadvantage d sections	3

7.1.5 Human Values and Professional E	Ethics					
Code of conduct (handbooks) for various stakeholders						
Title	Date of Publication	Follow up (maximum 100 words each)				
Student Guide	June , 2019	The student guide has been helpful in making the students aware about the various rules and regulation to be followed while staying in the hostels. The various clause of student guide have been successfully implemented to maintain the discipline amongst the students of the Institute. The publication of this book helps in containing the menace of ragging in the campus. The modification, alteration or amendment in various rules have been done to remove any difficulties arising due to some extraordinary conditions like COVID-19.				

7.1.6 Activities conducted for promotion of universal Values and Ethics							
Activity Duration (from) Duration (to) Number of participants							
Residential Faulty Development							
Programme on Student Induction	04/01/2020	10/01/2020	53				
under Universal Human Values							

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.

- 1. An 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 "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.
- 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. Institute is in a process to install Solar Power Plant at SLIET, Longowal.
- 8. Plantation drives are organized at regular intervals.

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

Following few best practices of the Institute are listed as below:

STUDENT COUNSELLING SYSTEM at SLIET

The institute has adopted student counselling system for the benefit of the student. Each class after admission to the BE and ICD program shall be assigned to a Class Counsellor. Counsellor meets students once in a week. Students are expected to keep constantly in touch with their counsellors so that he may watch their progress and guide them for career progression, academic programme and registering in the semester. The course counsellors work one-on-one with students, performing a range of assessments to pinpoint their strengths and help them for improvement.

STUDENT MENTOR SCHEME (SMS)

The Student Mentor(s) is a team of senior students to help junior students and are trained to offer help and support to new entrants throughout their campus life as well as academic activities. They are assigned the role of Student-Mentor for a batch of about twenty students from the same engineering department. The Student Mentors offer support in lots of areas like help in academic and non-academic queries or concerns, the students have, helping opportunities to meet other students from the course, referencing, subject notes and what to expect from the course, Students' Union activities, clubs and societies to get involved in, using turn-it-in and Learning Central and helping prepare for competitive examination, insider tips on surviving the first year in the Institute and student life specific to the department, giving relevant, recent and reliable advice that they have been trained to provide, advice on accessing specialist support services etc.

TUTOR-GUARDIAN SCHEME (TGS)

Tutor-Guardian Scheme (TGS) has been introduced in S.L.I.E.T. Longowal to have one to one interaction with students. Teacher from same engineering department along with teachers from non-engineering departments is assigned the role of Tutor-Guardian for a batch of about twenty students. Teacher Guardian works as a friend, philosopher and guide for these students. He keeps the track of every student's day-to-day activities and records daily attendance, test results, internal assessment, preliminary examination results and other related information of students in a teacher guardian book. He motivates students to excel in their studies and also encourages them to participate in co-curricular & extracurricular activities and gives regular about the assigned students to the

parents/guardians. He also counsels the students to solve difficulties encountered not only in college campus but in their personal lives too. The teachers of the institution take up the responsibility of safeguarding and nurturing the newly admitted students and help them to get acclimatized to S.L.I.E.T. environment. The students are free to contact the counselling service with a wide range of worries, including personal, home and family relationships, depression, anxiety and loneliness.

WAR ROOM CONCEPT

To address the challenges of modern era, SLIET has taken new initiative in the year 2019. Under war room we have identified 8 pillars such as: (a) Branding Perception (b) Outreach & Inclusivity (c) Research and Professional Practices (d) Graduation Outcome (e) Infrastructure Creation (f) Financial Parameters (g) Students Counselling and (h) Academic Excellence

In addition to above, the Institute has added student members in most of the committees, constituted at Institute level/ department level/hostel level like IQAC Cell, Innovation Cell, Software Development Club, Internal Complaints Committee, Techfest Committee etc.

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

Sant Longowal Institute of Engineering & Technology | War Room (sliet.ac.in)

<u>Sant Longowal Institute of Engineering & Technology | Tutor Guardian and Student Mentor Scheme</u> (sliet.ac.in)

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 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 Institute 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 offers flexible, modular, layered, multipoint entry/exit programmes in Engineering & Technology. The Institute offers 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 dropsout 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) Bachelor of Engineering (B.E.) (4 Year)
 - b) Bachelor of Engineering (B.E.) (Lateral Entry)
- iii) Post Graduate Programmes
 - a) Mater of Technology (M. Tech.)
 - b) Master of Business Administration (M.B.A.)
 - c) Master of Sciences (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 (non-creamy layer, minorities)] as per Government of India guidelines in order to enhance their employability.

Sant Longowal Institute of Engineering & Technology | Vision (sliet.ac.in)

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

Revision of ICD syllabus

Industrial collaboration

Creation of Digital Lecture Recording Studio

Every department has to develop at least two E-contents such as e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under-Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional [Learning Management System (LMS)].

Minimum two, 4-5 minutes video may be made by the faculty of each department on conceptual topics for the benefits of the students.

Fee collection using online module

Making provisions for Feedback Proformas, No Due Certificate in the Enterprise resource planning (ERP) meant for the students, leaving the Institute after completing their Degree

Organizing Health Awareness Camps

Collection of all fee, fine, document charges through online mode to promote digital transactions

Increase of number of industrial visits of students, at least two per department, per semester.

Minimum two workshops/Faculty Development Programmes (FDPs)/Seminars for the faculty in each department in every academic year.

Minimum two workshops/ Faculty Development Programmes (FDPs)/Seminars for the students in each department in every academic year.

Efforts be made to work on AICTE Training & Learning (ATAL) Courses.

Organize training programmes for the development of supporting/non-teaching staff

To organize workshops/seminars on social problems/environmental consciousness like

Swachata Abhayan, Plastic free campus etc.

Name **Prof. (Dr.) J.S. Dhillon** Signature of Coordinator, IQAC

Name **Prof. (Dr.) Shailendra Kumar Jain**Signature of the Chairperson, IQAC