

SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY

(Deemed-to-be-University)

LONGOWAL, Distt. Sangrur (Pb.) 148106

(Established by : Government of India)

Annual Report

वार्षिक रिपोर्ट

2008-2009



SLIET

संत लौंगोवाल अभयांत्रिकी
एवम् प्रौद्योगिकी संस्थान, लौंगोवाल

जिला संगरूर (पंजाब) – 148106

(भारत सरकार द्वारा स्थापित)



PREAMBLE

Sant Longowal Institute of Engineering & Technology (**SLIET**), Longowal is a premier National level Technical Institute funded by the Ministry of Human Resource Development, Government of India. The Institute was established by Government of India in the year 1989 on the recommendations of National Expert Committee to provide Formal Technical Education to the students of the country and also non-formal education and training to persons from unorganized sector of population and school drop outs to enable them to acquire basic technical skill so that they are gainfully employed. Entrepreneurship Development will be an in built feature in the curriculum of all Courses so as to motivate pass out students to become self employed. The Institute has recently been declared as **Deemed-to-be-University** by Ministry of Human Resource Development (MHRD), Government of India, and New Delhi and is a unique Institute, which offers modular education from certificate to the postgraduate and doctorate levels.

Empowered by the AICTE, UGC and the Government of India, the Institute awards its own Certificate, Diploma, Degree, Post Graduate and Ph.D Degrees. Two under-graduate degree programmes of Mechanical Engineering have been accredited with the **National Board of Accreditation (NBA)**. Process for **re-accreditation** of remaining under-graduate degree has already been initiated..

Academic planning and development was done to realize the various missions of the institute such as to offer flexible, modular multipoint entry /exit in Engineering & Technology, to offer non-formal programs in different areas of technology, to strengthen the scope of institutional programs and to pursue higher level programmes in the institute after acquiring necessary competence at lower level programmes in the

institute. New Course curriculum, rules and regulations of the Certificate, Diploma, UG, PG and Ph.D programmes were made and got approved from Senate. Adaptation of Relative grading system coupled with continuous evaluation pattern has made the academic performance of the student more transparent.

In addition to the significant contribution to the formal technical education, the institute is running non-formal training programmes for the *physically challenged and weaker sections of the society*. A new department i.e; **Department of Disability Studies** has been established to contribute in the societal development.

The teaching learning process of the institute has faced some problems due to increase in the enrolment of student under **OBC reservation**. Some contingency measures have been taken up to facilitate the teaching-learning process on adhoc mode. Planning and Development is initiated on long-term basis for creation of additional infrastructure, faculty, staff, hardware and software.

As ritual on 8th December, Students were awarded Certificate, Diploma and Degrees in the Annual Convocation of the Institute.

Like many other reputed technical institute of higher learning, this institute is also faced with the placement of their graduate due global recession and related job deficit.

Besides teaching, all the departments organized seminar/conferences/workshop and staff development programmes. Faculty also contributed technical in-put by attending various seminar/conferences organized by other institutes of India and abroad. Guest lecturers were invited in the department for enrichment of knowledge of faculty as well as students.

Faculty members have contributed in research by publishing papers in the conferences and in the national as well as International journals of repute. Few faculty members have published books. Indian Society of Agriculture Engineers (ISAE) conferred the **Outstanding Book Award** to the book *“Food Processing Engineering Laboratory Manual”* by **H. Pandey et al** from Department of Food Engineering & Technology.

To shape the ideas and translate them into innovations are some of the ingredients of the academics of this institute. The Students of SLIET participated in the JK Tyre Baja SAE (Society of Automobile Engineering) India 2009' Event and won the various prizes which includes placement of Two of our students in Mahindra & Mahindra. Dynamic Event Awards: Maneuverability Award (sponsored by SAE INDIA): Our ATV scored 100/100 and bagged a prize money of Rupees 1 lac.. Durability award (sponsored by M&M): Our ATV scored 400/400 and bagged prize money of Rupees 1.5 lac. Overall Award Winner: First place (sponsored by ITW Chemins, Hyd.): Our ATV scored 845/1000 and bagged a prize money of Rupees 5 lac. The organizers have given the prize money to the team members of 'Junkyard Warriors'.

Four projects (Total amount: Rs. 33.67 Lakh) are currently continuing two in the department Food Engineering & Technology, one each in the department of Chemical Technology and Chemistry.

MANDATE

The mandate in terms of the Memorandum of Association of the Institute comprises :-

1. To provide training, instructions and research facilities in such branches of skills, engineering and technology as the Institute may think fit and for the advancement of learning and dissemination of knowledge in such branches.
2. To institute awards fellowships, scholarships, prizes and medals in accordance with the Rules and Bye-laws.
3. To confer honorary awards or other distinctions.
4. To fix, demand and receive such fees and other charges as may be laid down in the Bye-laws made under the rules of the institute.
5. To establish, maintain and manage halls and hostels for the residence of students and staff.
6. To co-operate with educational or other institutions in any part of the world having

objectives wholly or partly similar to those of the institute by exchange of teachers, scholars and generally in such manner as may be conducive to their common objectives.

7. The Institute is open to persons of either sex and of whatever race, creed, caste or class, and no test or condition shall be imposed as to religious belief as to profession in admitting students or appointing members, teachers and other staff of the Institute.
8. To undertake research for development of innovative methods, processes and practices for improvement of students environment in technical and vocational education institutions.
9. To arrange practical training for students in industries and to make efforts for the placement of students.
10. To design new instructional system and strategies for production of multimedia learning materials.
11. To develop and disseminate learning resources like Text books, Laboratory Manuals, Computer Assisted Instructional multimedia Packages for the students and teachers.
12. To fix, demand and receive fees and other charges to undertake consultancy and Extension work for industry, technical institutions/ organizations.
13. To provide support services to Government of India schemes related to technical and vocational education system and as entrusted by MHRD, Government of India, from time to time.
14. To invest and deal with funds of the Institute.

VISION

SLIET shall strive to act as an international podium for the development and transfer of technical competence in academics through formal and non-formal education, entrepreneurship and research to meet the changing needs of society.

MISSION

1. Non-formal, flexible, modular, credit based multipoint entry programmes in engineering and technology and in the areas like Rural Development, Educational Planning, Information and Management Sciences.
2. Education and Training in Modern Technology Areas.
3. Extension services to the industry, working population, passed out students, social organization and institutions of research and

- higher learning.
4. Close interface with the industry to conduct research on the basis of manpower requirements leading to integrated educational planning, curriculum development and instructional material preparation in the identified area of science and technology and interdisciplinary areas.
 5. Promotion of Institute-Institute and Industry Institute Linkages for sustainable development of academic and research.

OBJECTIVES

The objectives of the institute are :-

1. To provide education in the field of engineering and technology.
2. To offer flexible, modular, layered, multipoint entry/exist programmes in Engineering & Technology.
3. To promote "Self-employment" in all programmes by introducing a component of entrepreneurship & providing guidance and counseling services to help students to take-up self employment ventures.
4. To offer non-formal programmes in different areas of technology to strengthen the scope of Institutional programmes.
5. To provide technical education facilities for women, through specially designed courses.
6. To offer continuing education programmes for working personnel from industries at different levels.
7. To offer bridge courses for lateral entry in all programmes and for moving from one level of course to another level.
8. The Institute will provide non-formal education and training to persons from unorganized sectors of population and schools drop-outs through its extension services to enable them to acquire basic technical skills, so that they are gainfully employed.
9. To strive for continuous improvement in instruction and research in Engineering & Technology disciplines.
10. To actively support the growth and quality improvements of technical education in the country through involvement in activities at State and National Level.
11. To cooperate with educational or other institutions in any part of the world having objects wholly or partly similar to those of the Institutes

by exchange of teachers and scholars and generally in such manner as may be conducive to their common objects.

12. To undertake consultancy and extension work for industry, technical institutions/organization.
13. Taking initiatives in improving technical education and training in collaboration with industries in the region and formulating such programmes and projects mutually agreed.
14. Undertaking programmes and activities for social uplift of weaker section community especially from rural background.
15. Collaborating with institutes in India and abroad having similar objectives.
16. Striving for deemed-to-be-University status to keep the institute in the forefront in all its functional areas.

FACULTY

High motivated, exceptionally talented and dedicated faculty has been leading the movement of the institute towards excellence. Faculty is chiefly involved in teaching, curriculum development, laboratory development, preparing learning materials, guidance and counseling. Apart from these, faculty also executes administrative and co-academic assignments as and when required. Despite remaining heavily loaded, the faculty pulls out time for research and development activities and participates in extra-curricular activities.

CAMPUS FACILITIES

1. Sprawling area of 451 acres with lush green, pollution free and eco friendly environment.
2. Modern residential flats for faculty and staff.
3. PG Hostels for Boys and Girls under construction.
4. VIP guest house (AC) and transit accommodation with uninterrupted power and water supply.
5. Water storage system, sewerage disposal system and metalled road network.
6. Health Centre with adequate facilities (24 hours emergency services).
7. Central and Departmental Libraries
8. SLIET Gas Agency
9. Shopping Complex
10. STD/ISD/Cyber Café Booths
11. Bank with ATM facility
12. Institute Transport facility
13. State Roadways Transport facility to all surrounding cities
14. Faculty and Staff Mess
15. Internet/Networking facility through the campus.
16. Internet connections in all the hostels

17. Outlets of Khadi Gramodyog, Verka
18. Oxidation Pond

HOSTELS

SLIET is completely residential campus with nine Hostels for Boys and two for girls accommodating almost all the students totaling about 2500 which includes about 400 girls students. All the hostels have



been provided with Internet connections, modern kitchens, comfortable dining halls and indoor games facilities. Newspaper, magazines, telephone connection, intercom connection and T.V. including cable TV facilities are also available in the Hostels.

BOYS HOSTEL

SLIET has 09 Boys Hostels. The capacity of each hostels are 235 students, and the capacity of PG Hostel is 80 students

ALLOCATION OF HOSTEL

Five three seater Boys Hostels allotted to Certificate and Diploma students

One three seater Boys Hostel allotted to First year Degree

Two single seater Boys Hostel allotted to Pre-final and final year Degree students

One Hostel allotted to PG (M.Tech. Students).

GIRLS HOSTEL

SLIET has 02 Girls Hostels. The capacity of each hostels are 225 students.

ALLOCATION OF HOSTEL

There are 61 single seater room allotted to PG and final year Degree students in Girls Hostel No. I.

54 three seater rooms allotted to Degree 1st year & pre-final year students in Girls Hostel No. I.

One three seater Girls Hostel allotted to all Certificate & Diploma students.

COMPUTING FACILITIES

The Institute is equipped with latest and powerful hardware and software systems. The Institute possesses



state of the art server such as AS400, DRS 6000 and twin CPU Pentium systems. The students get adequate time to learn and practice on the computing facility. Most of the Laboratories are open from 8:30 AM to 10:30 PM. The Project Laboratory and Internet Laboratory are opened for 24 hours for final year students. A high performance campus wide networking with 4 Mbps has been commissioned in the Institute to provide Internet connectivity throughout the campus. All the hostels have been provided with Internet connections.

HEALTH CENTER

The Institute has its own Health Center to provide necessary medical aid to the students and staff on the campus. Specialists are also visiting the Health Center to



provide consultation to the inmates. Ambulance is also, available to assist serious patients.

BANK, POST OFFICE, SHOPPING CENTRE, TELEPHONE EXCHANGE, RESTAURANT

A Branch of Central Bank of India and a Post Office are functioning in the campus to cater the needs of the faculty, staff and students. Each Hostel has been provided with a telephone facility. A Modern Shopping Centre, STD payphone, Modern Shopping Centre, Canteens and Restaurant is available in the campus to cater the needs of the residents of the Institute.

SPORTS

Adequate provisions for extra-curricular activities including games and sports are made in the Institute. At present, facilities are available for Gymnasium table tennis, badminton, volleyball, football, hockey, cricket, basketball, lawn tennis and other indoor games. The Institute has also a swimming pool. A well equipped health club for students and staff is functioning which is being expanded further. Similar type of facilities is also available in the girls' hostels. A modern Students' Activity Centre, which has badminton hall, squash court, other indoor games, cafeteria etc. is fully functional.

EXTRA CURRICULAR ACTIVITIES

Students are encouraged to participate in extra curricular activities. Regular cultural programmes are organized on the campus to develop the overall personality of the students. Music and hobbies club are also functioning very effectively and literary society is organizing various literary activities from time to time. NSS, NCC are also very active at the campus in organizing blood donation campus, tree plantation and other social works.

RECREATIONAL & ENTERTAINMENT FACILITIES

1. Play grounds and stadium
2. Lake with natural sanctuary of birds alongwith boating facility
3. Badminton and Tennis Courts
4. Swimming Pool
5. Auditorium and Open Air theatre
6. Cable TV Network
7. Children Parks

8. Beautiful Plaza
9. Multipurpose Examination Hall

SLIET MODEL SCHOOL

SLIET Model School has been established at the institute to cater to the educational needs of the children of the employees and people of nearby areas. Following objectives have been outlined for the school :

1. Providing highly competitive and most modern education at primary level with prospects of higher education.
2. Providing educational facilities to the staff and people of nearby areas at par with top English Medium School of the region and at a reasonable cost.
3. Providing knowledge based education to produce responsible, self reliant, confident and healthy citizens



4. Providing education in consonance with national favour and ethos.

Campus of the school is widespread among lush green surroundings. It has tranquil, serene atmosphere away from din and noise and well ventilated spacious classrooms. Facilities of playroom, internet lab, music room, library and facilities for sports including swings, skating rink, open air stage exist. Splash pool facilities for playing water games have been especially created for the kids, being located in SLIET, an easy access to various facilities of SLIET (Library, Auditorium, Seminar Rooms, Sports Facilities, Activity Centre, Recreational Facilities) prevails. Also children of the school can enjoy various programmes of SLIET.

School prophesies most modern teaching methods and believes in play oriented activity based learning. Especially designed curriculum and methodology to identify and nurture the talents of little ones is in practice. Students are encouraged to explore

their individual talents and work as a team. Classroom activities, excursions, dance, drama, music, painting and other co-curricular activities to channelize their energies for self-actualization are regularly organized. Emphasis is laid on inculcation of values and innovative and exciting project work is given as holiday assignment to utilize free time during vacations. Introduction of computer literacy at appropriate level and emphasis on overall development of personality with learning of cognitive, linguistic and creative skills in a compassionate learning environment is the hallmark of the school. Regular parents-teachers meetings are held to improve concepts and their dissemination for which competitive, well qualified and devoted teachers have been appointed. In turn they have responsive management and implicit governmental support.

STUDENT ACTIVITY CENTRE

It is a centre for channelizing the creative instincts of the students. The institute encourages polymorphic activities through hobbies club, photography club, philatelic club, numismatic club, literary society. It houses indoor games like billiards, squash, table tennis, bad minton, carom and chess etc. SAC has yoga hall, meeting hall, projects development centre and shopping booths besides a well equipped gymnasium for the students. Apart from this, for engaging students in other activities, the institute has set up cultural

committee, NSS unit, drama circle, NCC unit, SPIC MACAY etc.

ACADEMIC PROGRAMMES & STRUCTURE

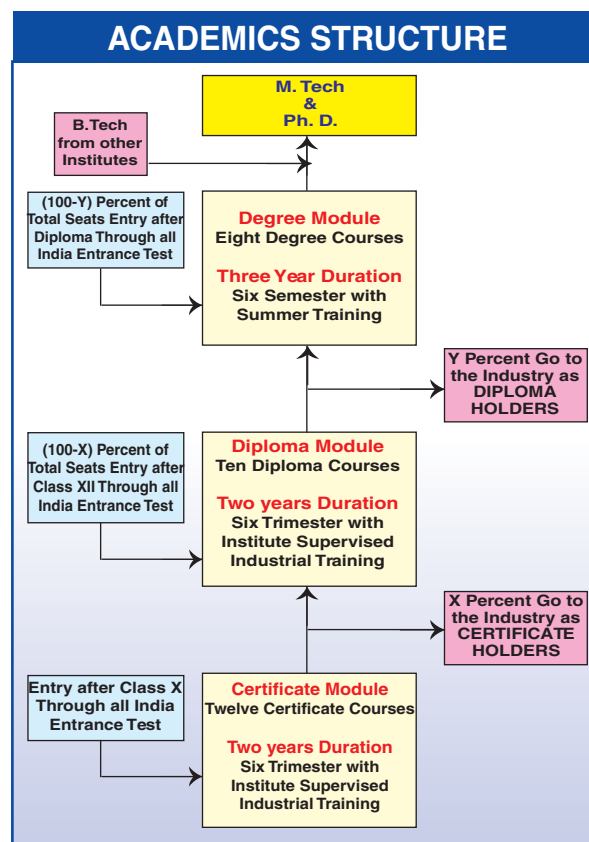
The Institute offer modular pattern of education in emerging areas of Engineering & Technology. Following types of formal programmes are offered by the Institute:

- Certificate, Diplomas, Degrees and M.Tech.'s awarded by SLIET are duly recognized by All India Council for Technical Education (AICTE), New Delhi (Letter No.F.765-65-031(E)/ET/97 dated July 4, 1997 and Letter No.F-765-65/ET/97 dated April 15, 1997). Certificate Courses of SLIET are equivalent to 10+2 qualification for the purpose of employment. The Diploma courses of SLIET are equivalent to the Diplomas awarded by the various State Boards of Technical Education in the appropriate fields for the purpose of recruitment to the posts and services under Central Government (Notification 42 No. F18-8/93 T.D.V/TS IV dated 8th March, 1995)
- Diplomas awarded by SLIET are exempted from Section-A of AMIE by the Institution of Engineers (India) vide letter No. EEA/AGK/R-22A dated Feb 20, 1995; EEA/AD/R-22A dated July 23, 1996 and EEA/AKG/R-22A dated November 1, 1999.
- Punjab University, Chandigarh vide its letter No.

ACADEMIC PROGRAMMES

Name of the course	Abbr.	Intake
(A) CERTIFICATE PROGRAMME		
1. Certificate in Servicing & Maintenance of Electronic Instruments	CSME	30
2. Certificate in Computer Applications	CCA	30
3. Certificate in Food Technology	CFT	30
4. Certificate in Air Conditioning and Refrigeration	CAC	30
5. Certificate in Foundry & Forging	CFF	30
6. Certificate in Tool & Die Technology	CTD	30
7. Certificate in Auto & Farm Machinery	CAF	30
8. Certificate in Welding Technology	CWG	30
9. Certificate in Servicing & Maintenance of Medical Instruments	CSMM	30
10. Certificate in Maintenance of Television	CTV	30
11. Certificate in Maintenance of Elec. Equipments	CMEE	30
12. Certificate in Paper & Printing Technology	CPPT	30
(B) DIPLOMA PROGRAMME		
1. Diploma in Chemical Technology	DCT	30
2. Diploma in Computer Programming & Applications	DCA	30
3. Diploma in Computer Servicing & Maintenance	DCE	30
4. Diploma in Electronics & Communication Engg.	DEC	30
5. Diploma in Food Processing	DFP	30
6. Diploma in Foundry Technology	DFT	30
7. Diploma in Industrial & Production Engineering	DIP	30
8. Diploma in Instrumentation & Process Control	DIN	30
9. Diploma in Maintenance & Plant Engineering	DMP	30
10. Diploma in Welding Technology	DWT	30
(C) DEGREE PROGRAMME		
1. Chemical Technology with specialization in (i) Polymer Technology	GCT	30
(ii) Paper Technology		30
2. Computer Science & Engineering	GCS	60
3. Electronics & Communication Engineering	GEC	40
4. Food Technology	GFT	40
5. Instrumentation Engineering	GIN	40
6. Mechanical Engineering with specialization in (i) Manufacturing Engineering	GME	40
(ii) Welding Technology	GWTE	40
7. Information Technology	GIT	30
(D) POST GRADUATE PROGRAMME		
1. Manufacturing Engineering	PGME	25
2. Food Engineering & Technology	PGFT	25
3. Instrumentation & Control Engineering	PGICE	25

ACADEMICS STRUCTURE



STUDENTS STRENGTH

The module wise and discipline wise break-up has been indicated in Table-A-1, A-II, A-III, A-IV and passed out students in Table B

TABLE-I
STUDENTS STRENGTH DURING THE SESSION 2008-2009 (AS ON 31.03.09)
(CERTIFICATE PROGRAMME)

Sr. No.	Discipline	2007 Batch			2008 Batch		
		Boys	Girls	Total	Boys	Girls	Total
01	Air Conditioning and Refrigeration	34	02	36	37	00	37
02	Auto & Far Machinery	34	00	34	36	00	36
03	Computer Applications	27	11	38	27	10	37
04	Foundry and Forging	34	00	34	36	00	36
05	Food Technology	16	18	34	17	18	35
06	Paper and Printing Technology	23	12	35	21	04	25
07	Tool & Die Technology	35	00	35	36	00	36
08	Maintenance of T.V	32	04	36	27	09	36
09	Welding Technology	36	00	36	36	00	36
10	Maintenance of Electrical Equipments	30	08	38	29	07	36
11	Service & Maintenance of Electrical Instruments	28	10	38	22	14	36
12	Service & Maintenance of Medical Instruments	34	00	34	21	12	33
	Total	363	65	428	345	74	419

TABLE A-II
STUDENTS STRENGTH DURING THE SESSION 2008-2009 (AS ON 31.03.09)
(DIPLOMA PROGRAMME)

Sr. No.	Discipline	2007 Batch			2008 Batch		
		Boys	Girls	Total	Boys	Girls	Total
01	Computer Science and Application	23	17	40	26	15	41
02	Computer Science and Engineering	33	06	39	31	10	41
03	Chemical Technology	24	09	33	17	13	30
04	Electronics and Communication Engineering	27	11	38	33	07	40
05	Food Technology	17	16	33	21	13	34
06	Foundry Technology	34	00	34	36	00	36
07	Instrumentation and Process Control	27	08	35	27	09	36
08	Industrial and Production Engineering	34	00	34	36	00	36
09	Maintenance & Plant Engineering)	33	00	33	37	00	37
10	Welding Technology	37	00	37	40	00	40
	Total	289	67	356	304	67	371

TABLE A-III
STUDENTS STRENGTH DURING THE SESSION 2008-2009 (AS ON 31.03.09)
(DEGREE PROGRAMME)

Sr. No.	Discipline	2007 Batch			2008 Batch		
		Boys	Girls	Total	Boys	Girls	Total
01	Computer Science and Engineering	49	16	65	59	10	69
02	Electronics and Communication Engineering	29	09	38	43	04	47
03	Food Technology	20	10	30	11	10	21
04	Instrumentation Engineering	37	01	38	37	09	46
05	Chemical Technology (Paper Technology)	06	00	06	05	01	06
06	Chemical Technology (Polymer Technology)	22	05	27	26	07	33
07	Mechanical Engineering (Manufacturing Engg.)	43	01	44	47	00	47
08	Mechanical Engineering (Welding Technology)	44	00	44	46	00	46
09	Information Technology	21	09	30	29	07	36
	Total	271	51	322	303	48	351

TABLE IV
STUDENTS STRENGTH DURING THE SESSION 2008-2009 (AS ON 31.03.09)
(M. Tech PROGRAMME)

Sr. No.	Discipline	2007 Batch			2008 Batch		
		Boys	Girls	Total	Boys	Girls	Total
01	FoodTechnology	11	04	15	21	02	23
02	Instrumentation & Control Engineering	09	06	15	10	03	13
03	ChemicalTechnology	02	03	05	04	00	04
04	Mechanical Engineering	11	01	12	10	00	10
	Total	33	14	47	45	05	50

TABLE V
DETAIL OF STUDENTS PASSED OUT DURING 2008-09

Sr.No.	Programme	Boys	Girls	Total
01	Certificate 2007 Batch	180	45	225
02	Diploma 2007 Batch	243	65	308
03	Degree 2006 Batch	130	46	176
04	M.Tech. 2007 Batch			

First Batch of M.Tech.started from 2002

* Remaining results awaited from PTU.

TABLE VI
PRIZE/ MEDALS AWARDED IN CONVOCATION**

Sr.No.	Batch/ Discription	No. of Students
01	Degree 2005 (Degree Awarded)	239
02	Merit Certificate (Degree 2005)	21
03	Gold Medals	07
04	Silver Medals	07
05	J.P.MemorialAward GEC 2004	01
06	Central Bank of India Prize Degree 2004	04
07	PG Gold Medal	04
08	PG Silver Medal	03

** Convocation for 2006 batch is yet to be held on 08.12.2009

DEPARTMENT OF CHEMICAL TECHNOLOGY

BRIEF INTRODUCTION

Department of Chemical Technology, SLIET, strives for the development and transfer of technical competence in academics through formal and non formal education, entrepreneurship, and quality research to meet the challenges of an ever expanding and globalized world. With the vivid imagination and on increasing demand of the Chemical Engineering field in world of technology, this Department of SLIET, Longowal has been conceived for the creation of the technically competent manpower at the levels of Certificate, Diploma, Graduate and Post Graduate levels with additional specialized training in the areas of Polymer and Paper Technology. The department thus strives to cater to the specialized human resource needs of the Chemical Process Industries. Department is having well qualified faculty from IITs, PU Chandigarh, HBTI Kanpur, etc. Department have various labs facilities such as Unit Operation, Heat and Mass Transfer, CRE, Thermodynamics, Process Instrumentation and Control, Modeling and Simulation, Environment, Paper and Polymer Technology which are being looked after by experienced and technically qualified staff. These labs are equipped with latest machineries to carry out the experimental work. After getting proper training, students are placed in various reputed companies.

COURSE OFFERED

- a) Certificate in Paper & Printing Technology :02 year course
- b) Diploma in Chemical Technology : 02 year course
- c) B.E. in Chemical Technology :(i) with specialization in Polymer Technology – 03 year course
(ii) with specialization in Paper Technology – 03 year course
- d) M. Tech. (Polymer Technology) – 02 year course
- e) Ph. D in Chemical Technology (Polymer Technology)

OBJECTIVES OF COURSES OFFERED BY THE DEPARTMENT

Imparting quality education, integrated industrial training and curricula, research and development, non-formal education through community development programs, industry-institute-partnership and to provide consultancy services to the industries around the region with the vivid imagination and on increasing demand of the Chemical Engineering field of the world of Chemical Technology, creation of the technically competent manpower at the levels of Certificate, Diploma, Degree and Post Graduate level with additional specialized training in the field of Polymer Technology and Paper Technology.

ACADEMIC ACTIVITIES : Teaching and Research

LABORATORIES

Paper Tech Lab.	Lab Research digester
	Sheet Former
	Lab Sheet Press
	Lab Sheet Dryer
	Beating & Freeness Tester
	Laboratory Beater
	Microprocessor pH meter
	Pulp Disintegrator
	Metrex Muffle Furnace
	Bauer McNett Classifier
	CAD Simplus software
Paper Testing Lab	Elmendori Tear Tester
	Folding Endurance Tester
	Reflectance meter
	Gloss meter
	Cobb Tester
	Thickness Micrometer
	Precision Test Cutter Model A, B, C, D
	Quardant Scale
	Gurley SPS Tester
	Burst Tester
	Auto Temp. Ind. & Controller
	Electric Paper Incinerator
	Air Knife Coater
	Pipe& mixing steel Tank
	Environmental Chamber
Chemical Recovery Lab.	Hot air oven
	Lab. Flask shaker
	Muffle Furnace
	Hot Plate
	Water Still
	Brookfield Viscometer
Environmental Lab.	Gas chromatograph
	Incubator
	COD Digester 25 points
	COD colorimeter
	High volume air sampler
Unit Operation Lab.	Ball Mill
	Jaw Crusher
	Redwood's Viscometer
	Centrifuge
	Setup to prove Stoke's Law
	Setup to prove Power Law
	Setup to study solid settling

	Setup for Rotameter
	Setup for Orificemeter
	Setup for Venturimeter
	Arrangement for Screen Analysis
	Rotary Drum Filter
Modeling an Simulation Lab.	CHEMCAD process simulation software 30 user license
Polymer Processing Lab.	Blow Moulding m/c
	Blow film extruder
	Brookfield Viscometer
	Balance triple beam
	Hand compression molding m/c
	Cutting machine
	Sexhlet extraction assembly
	Pensky marfin apparatus
	Hydraulic press
	Mold Hydraulic press
	Hand Injection Molding
	Auto Injection molding
	Melt Flow index
	Muffle furnace
	Abrasion testing m/c
	Impact Testing m/c
	Plastic hardness Tester
	Rubber hardness Tester
	Tensile testing m/c 250 kg
	Tensile testing m/c 1000 kg
Process Dynamics and Control Lab.	Study of IP & PI converter
	First order and Second order system
	Control Valve characteristics
	Air Purge Method
	Interacting and Non- Interacting system
	Multi Process Trainer
Heat & Mass Transfer Lab.	Thermal Conductivity Apparatus Metal Bar
	Shell and Tube heat exchanger
	Double pipe heat exchanger
	Hydrodynamics of packed column
	Air to water finned tube heat exchanger
	App. for study heat transfer by natural convection
	App. for study heat transfer by force convection
	App. for study heat transfer composite wall
CRE and Thermodynamics Lab.	Aeration unit
	Plug flow reactor
	Open pan evaporator
	Multipurpose processing vessel
	Liquid phase reactor

Hi-Tech / Research Lab.	Continue stirrer tank reactor
	Multipurpose High Pressure Reactor
	Soxhlet Extractor
	HDT
	Gel Permeation Chromatograph/HPLC/UV-Vis spectrophotometer
	Kjeldhal Apparatus
	Rotary Vacuum Evaporator
	Millipore water purifier
	Peristaltic pump
	Rotary Vacuum Evaporator

NEW EQUIPMENTS PROCURED DURING 2008-09:

S.N.	NAME OF EQUIPMENT	COST
1	CHEMICAL PROCESS SIMULATION SOFTWARE	Rs 5,86,500=00

RESEARCH & DEVELOPMENT (2008-09)

RESEARCH PROJECTS RECEIVED DURING THE YEAR 2008-09:

Sr. No.	Title of the Project	Investigators	Sponsoring Agency	Duration	Amount (in Lacs)	Status
1	Studies on Mechanical Properties of Rice husk based Poly Propylene Composites	PI: Vinay Kumar Co PI: Dr Kamlesh Kumari	AICTE	Three years	Rs 9.90 Lakhs	Going on

RESEARCH PROJECT COMPLETED DURING THE YEAR 2008-09

Sr. No.	Title of the Project	Investigator	Sponsoring Agency	Duration	Amount (in Lacs)	Status
1	Development of Novel Micro Porous Polyolefin Film for Disposable Diaper	Dr PP Kundu	CSIR	Three	7 Lakhs	Completed

RESEARCH PUBLICATIONS (2008-09)

RESEARCH PAPERS PUBLISHED/BOOKS AUTHORED

Sr. No.	Name of the Author	Title of Paper/Publication	Name of Journal with volume, year & Page Nos.
1	Ghatak, H.R., Kumar, S. and Kundu, P.P	Electrode processes in black liquor electrolysis and their significance for hydrogen production	<i>Int. J. Hydrogen Energy</i> 33(12): 2904-2911 (2008)
2	Ghatak, H.R.	Spectroscopic comparison of lignin separated by electrolysis and acid precipitation of wheat straw soda black liquor	<i>Ind. Crops Prod</i> 28(2): 206-212 (2008)
3	ASK Sinha	Effects of pulverized coal fly-ash addition as wet end filler in paper making	September 2008, TAPPI Journal
4	ASK Sinha	Study of Effects of process variables of rice straw delignification in catalyzed acetic acid medium at atmospheric pressure	April-June, 2008, IPPTA Journal, (Indian international journal)
5	Pusha Jha	Study of BioDiesel From Waste Soyabean Oil	Journal of Environmental Research And Development, Vol:2, 2008
6	Kumari K, Raina K K, Kundu P P	Studies on the Cure Kinetics of Chitosan–Glutamic Acid using Glutaraldehyde as Crosslinker through Differential Scanning Calorimeter	<i>Journal of Applied Polymer Science</i> , 2008, 108(1), 681-688.
7	Kumari K, Kundu P P	Studies on In Vitro Release of CPM from Semi-Interpenetrating Polymer Network (semi-IPN) Composed of Chitosan & Glutamic Acid	<i>Bull Mater Sci</i> 2008, 31(2), 159-167.
8	Kumari K, Kundu P P	Effect of Drying Processes and Curing Time of Chitosan-Lysine Semi-IPN beads on Chlorpheniramine Maleate Delivery.	<i>J Microen capsul</i> , 2009, 26(1), 54-62.
9	Kumari K, Prasad K, Kundu P P	Optimization of Chlorpheniramine Maleate Drug Delivery by Response Surface Methodology–Four Component Modeling using Various Response Times and	<i>Express Polymer Letter</i> , 2009, 3(4), 207–218.

		Concentrations of Chitosan-Alanine, Glutaraldehyde and Drug	
10	Kumari K, Kundu P	Cho C.S., Protein delivery using Chitosan Derivatives	Journal of Chitin Chitosan 13(4), 181-188 (2008).

RESEARCH PAPERS PRESENTED IN NATIONAL/INTERNATIONAL CONFERENCES/SEMINARS/WORKSHOPS/SHORT TERM COURSES

Sr. No.	Name of the author	Title of Paper/ Publication	Name of Conference/ Seminar Journal with volume, year and page nos.	National/ International
1.	ASK Sinha	Neem (Azadirachta indica) as alternative wood fiber source with environmental advantages & medicinal properties for pulp & paper Industries	Proceeding of PAPERCON -2008 Conference in TAPPI Publication, USA in June 2008.	International
2.	ASK Sinha	Nano –biopolymers and their composites using lignocelluloses derived from rice straw: Processing and Application	Oral presentation session and published in proceeding of World famous international conference NADPA-2008 organized by IIT, Roorkee, in December 2008.	International
3.	ASK Sinha	Study of use of non-magnetic fraction of pulverized coal fly ash as filler in specialty paper manufacturing	Oral presentation and publication in World famous international conference WOCA-2009	International
4	Pushpa Jha	Application of Rice-Husk for sorption of Phenol from Aqueous Solution	CHEMCON 2008	National
5	Pushpa Jha	<i>Study of BioDiesel From Waste Soyabean Oil</i>	ICER-08 (International Congress for Environmental Research -2008).	International
6	Kamlesh Kumari, , P. P.Kundu, Harpreet Kaur	In-Vitro Drug Release Studies through the Beads and Tablets Composed of Chitosan and Methylcellulose	61 st Annual session of iiche & CHEMCON-2008 (Dec. 27-30, 2008.)	National

7	Kamlesh Kumari, Charu Sharma, Patit Kundu; P.	In-vitro Release of Metformin Hydrochloride from Films of Chitosan-Methylcellulose Blends	National Conference on Advanced Materials And Radiation Physics, (AMRP-09), March 9-10, 2009, Department of Physics, SLIET Longowal	National
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NATIONAL/INTERNATIONAL CONFERENCE/SEMINAR/WORKSHOP/SHORT TERM COURSES ATTENDED BY THE FACULTY

Sr. No	Name of faculty	Title of Seminar/Conference/Workshops/Short Term Course	Duration/Period	Name of the Organization/Instt.
1.	ASK Sinha	Nanostructured Materials: Research and Development Status	18.02.2008 to 22.02.2008	IIT, Roorkee
2.	Vinay Kumar	Reserch methods in Engg.	16.02.09-27.02.09	Deptt of Mech Engg., SLIET
3.	Pusha Jha	CHEMCON 2008	27-30 Dec	P.U.Chandigarh
4.	Kamlesh Kumari	Applications of Modeling and Simulation in Chemical Engineering	March 16-20, 2009	Department of Chemical Technology, Thapar University, Patiala (Pb).

NATIONAL/INTERNATIONAL CONFERENCE/SEMINAR/WORKSHOP/SHORT TERM COURSES CONDUCTED BY THE DEPARTMENT : NIL

CONSULTANCY : NIL

LECTURES BY VISITING EXPERTS

Expert lectures on the use of Chemcad software were conducted by Mr. Gautam Pradhan , Business Development Manager, Axiom Engineers Pvt. Ltd. In March, 2009.

LAURELS & DISTINCTIONS (DURING THE YEAR 2008-09) : NIL

DISTINCTION ACHIEVED BY THE STUDENTS (B.TECH.)

Sr. No.	Name of the Department	Name of the Student	Registration No.	Distinction
1	Chemical Technology	Ms Divya Jha	1291	yes
2	Chemical Technology	Ms Mrigesha	1298	yes
3	Chemical Technology	Mr Sachin Bansal	1304	yes

DOCTORAL PROGRAMS

SN	Name of Supervisor	Name of Investigator	Brief Report	Remarks
1.	Dr PP Kundu, Dr Satish Kumar	H.R. Ghatak	Study and evaluation of electrolysis as treatment option for non sulfur black liquor	On going
2.	Dr. Manohar Singh Saini	Avinash Thakur	Studies on the production, purification of Lactic acid and synthesis of biodegradable polymers for controlled drug delivery.	On going
3.	Dr Manohar Singh, Dr BK Kanungo, Dr Shishir Sinha	Vinay Kumar	Development and Characterization of Rice husk Poly Propylene Composites	On going
4.	Dr Manohar Singh, Prof. Surendra Pal singh	ASKSinha	Techno-economic feasibility of Utilization of Pulverized Coal flyash as filler and rice straw as fibrous raw material for manufacturing of laminate base paper	On going
5	Dr Pusha Jha	Mr.Shailendra Naik	Horizontal Well Technology for Improved Oil Recovery	On going

PH. D DEGREE AWARDED

SN	Name of Candiadte	Name of Guide	Topic	University
1	Dr Kamlesh Kumari	Dr PP Kundu	Chitosan Hydrogels for Modulated Drug Delivery and Its Modeling	PTU 2008

RESEARCH DOING

Sr. No.	Name of Candidate	Title of subject	Year of registra tion	Remarks (worked at College/QIP Centre
1.	Mr HR Ghatak	Study and evaluation of electrolysis as treatment option for non sulfur black liquor	2007	SLIET, Longowal
2.	Mr Avinash Thakur	Studies on the production, purification of Lactic acid and synthesis of biodegradable polymers for controlled drug delivery	2008	SLIET, Longowal

3.	Mr Vinay Kumar	Development of Natural fiber and Agro Product based Polymer Composites using Waste Commodity Plastics	2006	PTU, Jalandhar
4.	Mr ASK Sinha	Techno-economic feasibility of Utilization of Pulverized Coal flyash as filler and rice straw as fibrous raw material for manufacturing of laminate base paper	2008	SLIET Longowal

CHIEF/OTHER EVENTS/ACTIVITIES OF THE DEPARTMENT

- WELCHEM 08: Cultural evening to bid welcome party to the fresher students of the deptt on 20th Oct 2008
- Quintessence: A wall magazine of the department of Chemical Technology being run under association of Chemical Technocrats, Deptt of Chemical tech. SLIET
- Regular Counseling, seminars/ lectures by the deptt/ institutes faculty members regarding personality development, competitive exams like GATE, GRE, CAT

DEPARTMENT OF CHEMISTRY

Brief Introduction

Department of chemistry at SLIET, Longowal has continually been striving for excellence in teaching and research since the inception of the institute. The department offers courses at certificate, diploma and degree level to strengthen the knowledge of the students in basic science, which is the backbone of technical institution. The research activities of the department are practically in all major sub-discipline of chemistry. The research carried out in the department has earned international recognition. Through publication and presentation of papers in international conferences. Details of the faculty and staff research projects and facilities established in the department over the year is given below

Course Offered

Certificate	Diploma	Degree
AC-1101 Applied Chemistry AC-1102 Applied Chemistry AC-1201 Chemistry & Environment-II AC-1202 Chemistry-II AC-1151 Applied Chemistry Lab.-I AC-1152 Applied Chemistry Lab.-I AC-1251 Chemistry Lab. -II AC-1252 Chemistry Lab.	AC-3101 Applied Chemistry AC-3151 Applied Chemistry Lab.	AC -5101-Engineering Chemistry AC-5201-Engg. Chemistry AC-5251-Engg. Chemistry Lab AC-5151-Engg. Chemistry Lab EV-6101-Environmental Chemistry

Objectives of the courses offered by the department

Department of chemistry at SLIET, Longowal has continually been striving for excellence in teaching and research since the inception of the institute. The department offers courses at certificate, diploma and degree level to strengthen the knowledge of the students in basic science, which is the backbone of technical institution. The research activities of the department are practically in all major sub-discipline of chemistry. The research carried out in the department has earned international recognition., through publication and presentation of papers in international conferences.

Academic activities : Organised National seminar on Chemistry: National Symposium on Emerging Trends in Chemical Analysis & Synthesis (**ETCAS-09**) during March 12-13,2009. Brief report is attached at Annexure-4.

Laboratories Equipment

There are four laboratories in the department of Chemistry. The following is the list of equipment.

SNo	Name of instrument
1.	Melting point apparatus
2.	Water bath
3.	Hot plate
4.	Magnetic stirrer
5.	Nitrogen gas cylinder
6.	Heating mantel 100ml
7.	Heating mantel 250ml
8.	Heating mantel 500ml
9.	Heating mantel 1000ml
10.	Hot air oven
11.	Electronic balance
12.	Spectrophotometer
13.	PH meter
14.	Conductivity meter
15.	Fire and Flash point app.
16.	Vaccum pump
17.	Vaccum pump model VE-160
18.	Rotary evaporator
19.	Ice flaking machine
20.	Ion Chromatograph
21.	Trace metal analyzer
22.	B.O.D. Track system
23.	Colorimeter
24.	UV-vis double beam spectrophotometer
25.	FT IR Spectrometer
26.	Diode Array Uv-Vis spectrophotometer
27.	Fluorescence spectrometer
28.	Palm sens electrochemical equipment

RESEARCH & DEVELOPMENT

A Research & Development Cell has been set up by the institute to monitor explanatory research to assess the technical manpower requirement leading to integrated educational planning, curriculum development and instructional material development in the area identified areas of science and technology. Further, research work is also undertaken by the faculty of SLIET in the inter-disciplinary areas to provide preventive and productive solutions for the problems of industry and community as a whole. These projects are funded by grants-in-aid sanctioned/sponsored by various organizations viz. MHRD, AICTE, Deptt of Science & Technology, Council for Scientific and Industrial Research and MHRD.

Research Projects Received during the year 2008-09 - NIL

Research Project completed during the year 2008-09 - NIL

RESEARCH PUBLICATION

1. Ultrasound Promoted ZrCl_4 Catalyzed Rapid Synthesis of Substituted 1,2,3,4-Tetrahydropyrimidine-2-ones in Solvent or Dry media, **Harish Kumar*** and Anupama Parmar, *Ultrasonic Sonochem.*, 15: 129-132 (2008).
2. Hydrolysis of Whey lactose using CTAB-permeabilized yeast cells, Gurpreet Kaur, P. S. Panesar, M. B. Bera and **Harish Kumar**, *Bioprocess Biosyst Eng.*, 32: 63-67 (2009).
3. Ultrasound-promoted greener synthesis of 2H-chromen-2-ones catalyzed by Copper perchlorate in solventless media, Saurabh Puri, Balbir Kaur, Anupama Parmar and **Harish Kumar**, *Ultrasonic Sonochem.*, 16, 705-707 (2009).
4. Ultrasound Promoted $\text{Cu}(\text{ClO}_4)_2$ Catalyzed Rapid Synthesis Of Substituted 1,2,3,4-Tetrahydropyrimidine-2-Ones & Hantzsch 1,4-Dihydropyridines in Dry Media, Saurabh Puri, Balbir Kaur, Anupama Parmar and **Harish Kumar**, *Heterocyclic Communications*, 15 (1): (2009) [In press].
5. p53-induced apoptosis and Inhibitors of p53, Surendra Kumar Nayak, Paramjit Singh Panesar and **Harish Kumar**^{1*}, *Curr. Med. Chem.*, 16 (21): 2627-2640 (2009).
6. Synthesis of 2-Aminothiazole, 2-mercaptobenzothiazole and 2-mercaptobenzimidazole derivatives as novel p53-transactivation inhibitors, Surandra Nayak, Harish Kumar* and P. S. Panesar, Presented in "11th Punjab Science Congress" held at Thapar University, Patiala on Feb. 7-9, 2008.
7. Ultrasound Promoted $\text{Cu}(\text{ClO}_4)_2$ Catalyzed Rapid Synthesis Of Substituted 1,2,3,4-Tetrahydropyrimidine-2-Ones & Hantzsch 1,4-Dihydropyridines In Dry Media, accepted for oral presentation at International Conference on Chemistry (Chem 05) from March 13-16, 2008 at Cairo University, Cairo, Egypt. (2008)
8. Copper (II) or Manganese (III) Perchlorates Adsorbed on Alumina: Novel Reagents for Organic Functional Group Transformations, Harish Kumar*, ICTIE-08, Malaysia
9. Transition Metal Perchlorates as Efficient Catalysts for the synthesis of Substituted 1,2,3,4- Tetrahydropyrimidine-2-ones and Hantzsch 1,4-Dihydropyridines under Dry media, Presented at 27th Annual Conference of Indian Council of Chemists held from December 26-28 at Gurukul Kangri Vishwavidyalaya, Haridwar (2008).
10. *Pseudomonas putida*- PIG1: Fermentation, Isolation and Separation of Fluorescent Bio-pigments, Harish Kumar and Hemraj, S. N., Accepted for presentation at 27th Annual Conference of Indian Council of Chemists held from December 26-28 at Gurukul Kangri Vishwavidyalaya, Haridwar (2008).
11. Novel synthesis of Fused Ring Thiazolo-benzimidazoles as p53 Inhibitors, Surandra Nayak, Harish Kumar* and P. S. Panesar, Presented at 27th Annual Conference of Indian Council of Chemists held from December 26-28 at Gurukul Kangri Vishwavidyalaya, Haridwar (2008).
12. Microwave assisted synthesis of Heterocyclic compounds using Inorganic salts as catalysts under Dry media, Saurabh Puri, Balbir Kaur, Anupama Parmar and Harish Kumar*, presented at 1st Annual Conference on Recent Advances in Chemical & Environmental Sciences at M. M. Modi College, Patiala on January 16-17, 2009.

13. Microwave assisted Lipase Catalyzed Regioselective Esterification of Sugars, Harish Kumar, Anupama Parmar, Sukhwinder Kaur, Presented at National Seminar on Recent trends in Chemistry at Punjabi University, Patiala on January 21-22, **2009**.
14. Isolation, Purification & Structure Elucidation of Bio-Surfactants from *Pseudomonas aeruginosa*, Deepshikha Hasija, Parmjit S. Panesar, Harish. Kumar And Manav B. Bera, Presented at National Seminar on Recent trends in Chemistry at Punjabi University, Patiala on January 21-22, **2009**
15. Manganese Perchlorate Adsorbed on Silica: A Novel Reagent for Organic Functional Group Transformations, Anupama Parmar And Harish Kumar, Presented at National Seminar on Recent trends in Chemistry at Punjabi University, Patiala on January 21-22, **2009**.
16. Products and Processes in Organic Synthesis: A Green Approach, Harish Kumar, Presented at National Symposium on Green Chemistry: Applications in Science & Engineering at Thapar University, Patiala on February 5-6, **2009**.
17. Synthesis of Hantzsch and Biginelli Compounds: A Green Approach, Saurabh Puri, Balbir Kaur, Anupama Parmar and Harish Kumar, Presented at National Symposium on Green Chemistry: Applications in Science & Engineering at Thapar University, Patiala on February 5-6, **2009**.
18. Transition Metal Perchlorates : Novel Reagents for Organic Functional 27 Group Transformations, Harish Kumar*, Presented at National Symposium on Emerging Trends in Chemical Analysis & Synthesis (ETCAS-09) held at SLIAT, Longowal on March 12-13, **2009**.
19. Ultrasound-Promoted Copper Perchlorate Catalyzed von Pechmann Condensation: A Greener Approach, Saurabh Puri, Balbir Kaur and Harish Kumar*, Presented at National Symposium on Emerging Trends in Chemical Analysis & Synthesis (ETCAS-09) held at SLIET, Longowal on March 12-13, **2009**.
20. Synthesis and Molecular Modeling of Benzimidazoles as anti-apoptotic and antimicrobial agents, Surendra Kumar Nayak , P. S. Panesar and Harish Kumar, Presented at National Symposium on Emerging Trends in Chemical Analysis & Synthesis (ETCAS-09) held at SLIAT, Longowal on March 12-13, **2009**.
21. Optimization of Process Parameters for Epoxidation of Jatropha Oil (Jatropha Curcas) by Peracetic acid, Harish Kumar and Varun Kumar, Presented at National Symposium on Emerging Trends in Chemical Analysis & Synthesis (ETCAS-09) held at SLIET, Longowal on March 12-13, **2009**.
22. Optimization of Process Parameters for the Photocatalytic Degradation of 2,4-Dichlorophenol in Aqueous Solutions Sushil Kumar Kansal, Manohar Singh and Dhiraj Sud *International Journal Of Chemical Reactor Engineering Volume 7 Article A6* **2009**.
23. Studies on photodegradation of Malachite green using TiO₂/ZnO photocatalyst, Priti Bansal, Navneet Bhullar and Dhiraj Sud, *Desalination and Water Today* 2008 (accepted)
24. Removal of Hexavalent chromium from aqueous solutions by adsorption on treated sugarcane bagasse using response surface methodology, Umesh K.Garg, M.P.Kaur, V.K.Garg and Dhiraj Sud., *Desalination*, 2008 (accepted)

25. Agricultural waste material as potential adsorbent for sequestering heavy metal ions from aqueous solutions-A Review, by Garima Mahajan , M.P.Kaur and Dhiraj Sud, *Bioresource Technology* Vol & Year- 99(14) 6017-27 **2008**
26. Removal of Cadmium (II) from aqueous solutions by adsorption on agricultural biomass, Umesh K.Garg, G.K.Jawa M.P.Kaur, V.K.Garg and Dhiraj Sud. *J.Hazardous materials*, 154, 1149-57, **2008**.
27. Studies on TiO₂ /ZnO photocatalysed degradation of lignin, S.K.Kansal, Manohar Singh and Dhiraj Sud. *J.Hazardous materials*, 153, 412-17, **2008**
28. Effluent quality at Kraft /Soda agro-based papermills and its treatment using a heterogeneous photocatalytic system, , by S.K.Kansal, Manohar Singh and Dhiraj Sud, *Desalination*, vol. & year-228, 1-3, 183-190, **2008**
29. Biosorption of Cr(VI) and Ni(II) from aqueous solutions on groundnut shells by Garima Mahajan, Umesh garg and Dhiraj Sud, *Biennial symposium on emerging trends in separation science and technology (SESTEC-2008)* , Delhi, 12-14, **2008**
30. Studies on photodegradation of Malachite Green using TiO₂/ZnO photocatalyst, Priti Bansal, Navneet Bhullar and Dhiraj Sud *Biennial symposium on emerging trends in separation science and technology (SESTEC-2008)* , Delhi, 12-14, **2008**
31. Agricultural waste material as potential adsorbent for sequestering heavy metal ions from aqueous solutions-A Review, by Garima Mahajan , M.P.Kaur and Dhiraj Sud, *Bioresource Technology* Vol & Year- 99(14) 6017-27 **2008**
32. Removal of Cadmium (II) from aqueous solutions by adsorption on agricultural biomass, Umesh K.Garg, G.K.Jawa M.P.Kaur, V.K.Garg and Dhiraj Sud. *J.Hazardous materials*, 154, 1149-57, **2008**.
33. Studies on TiO₂ /ZnO photocatalysed degradation of lignin, S.K.Kansal, Manohar Singh and Dhiraj Sud. *J.Hazardous materials*, 153, 412-17, **2008**
34. Effluent quality at Kraft /Soda agro-based papermills and its treatment using a heterogeneous photocatalytic system, , by S.K.Kansal, Manohar Singh and Dhiraj Sud, *Desalination*, vol. & year-228, 1-3, 183-190, **2008**
35. Biosorption of Cr(VI) and Ni(II) from aqueous solutions on groundnut shells by Garima Mahajan, Umesh garg and Dhiraj Sud, *Biennial symposium on emerging trends in separation science and technology (SESTEC-2008)* , Delhi, 12-14, **2008**
36. Studies on photodegradation of Malachite Green using TiO₂/ZnO photocatalyst, Priti Bansal, Navneet Bhullar and Dhiraj Sud *Biennial symposium on emerging trends in separation science and technology (SESTEC-2008)* , Delhi, 12-14, **2008**.
Comparative Evaluation of UV/Solar Light Induced Photodegradation of Azo Dye in Aqueous Solutions, Priti Bansal , Damanjit Singh and Dhiraj Sud, *National Conference on Advanced Materials and Radiation Physics, organized by Department of Physics, SLIET, Longowal, 9-10 March, 2009*.
37. Photodegradation of Model Textile Dye by ZnO Catalyst and Solar or Ultraviolet Radiation, Priti Bansal , Damanjit Singh and Dhiraj Sud, *National Symposium on Emerging Trends in Chemical Analysis & Synthesis, organized by Department of Chemistry, SLIET, Longowal, 12-13 March, 2009*.
38. Comparative studies on photocatalytic efficiency of ZnO and TiO₂ for degradation and mineralization of Acid Orange 7, Priti Bansal , Amit Dhir, Damanjit Singh and Dhiraj

Sud, 61st Annual session of IChE on Green Technology & Sustainable Development, Panjab University, Chandigarh, 27-30 December, 2008.

39. Novel TiO₂/ZnO photocatalysts for environment remediation : Synthesis, characterization and their photocatalytic reactivity, Priti Bansal , Amit Dhir, Damanjit Singh and Dhiraj Sud, 2nd National Symposium on Analytical Sciences (NSAS) , organized by Indian Society of Analytical Scientists-Delhi Chapter and IHBT-CSIR, Palampur (HP) , 23-25 November **2008**.
40. UV light induced photocatalytic degradation of azo dye: comparison of performance of different photocatalysts Priti Bansal, Navneet Bhullar and Dhiraj Sud, 2nd National Symposium on Analytical Sciences (NSAS), organized by Indian Society of Analytical Scientists-Delhi Chapter and IHBT-CSIR, Palampur (HP), 23-25 November **2008**.
41. Photocatalytic degradation of azo dye and identification of reaction intermediates, Priti Bansal , Damanjit Singh and Dhiraj Sud, National Seminar on *Recent Trends in Chemistry* , organized by Department of Chemistry , Punjabi University Patiala, 21-22 January, **2009**.
42. Biosorption of Cr(VI) and Ni(II) from aqueous solutions on groundnut shells, Garima Mahajan, Umesh garg and Dhiraj Sud, *Biennial symposium on emerging trends in separation science and technology (SESTEC-2008)* , Delhi, 12-14, **2008**.
43. Contribution of analytical techniques for sequestering of heavy metal ions from aqueous solutions using various biosorbents in different forms, Garima Mahajan, Manjinder Pal Kaur and Dhiraj Sud, 2nd National symposium on *Analytical Sciences and Technology Development*, IHBT, Palampur, Nov. 23-25, **2008**.
44. There is no other Earth, Garima Mahajan, Tanuja Srivastava and Dhiraj Sud , International conference on climate change, biodiversity and food security in the south asian region, UNESCO, Chandigarh Nov. 3-4, **2008**.
45. Comparison between various Bio-sorbent for the removal of Zn (II) from aqueous solutions using response surface methodology, Umesh Garg and Dhiraj Sud, *National Symposium on Emerging Trends in Chemical Analysis & Synthesis*, organized by Department of Chemistry, SLIET, Longowal, 12-13 March, **2009**.
46. Sequestering of Cr (VI) using Arachis Hypogaea Shells (AHS) in natural as well as modified forms: A Green Approach, Garima Mahajan and Dhiraj Sud, *National Symposium on Emerging Trends in Chemical Analysis & Synthesis*, organized by Department of Chemistry, SLIET, Longowal, 12-13 March, **2009**.
47. Studies on mineralization of Guaiacol using Heterogeneous Photocatalysis, Amit Dhir, N. Tejo Prakash and Dhiraj Sud, *National Symposium on Emerging Trends in Chemical Analysis & Synthesis*, organized by Department of Chemistry, SLIET, Longowal, 12-13 March, **2009**.
48. Biodegradability enhancement of Pulp and Paper Mill Effluents Using Advance Oxidation Processes, Sushil Kansal M.S. Saini and Dhiraj Sud, *Symposium on Emerging Trends in Chemical Analysis & Synthesis*, organized by Department of Chemistry, SLIET, Longowal, 12-13 March, **2009**.

BOOKS PUBLISHED

1. Food Chemistry, **Harish Kumar** and Parmjit S. Panesar, **(In press)**, Published by Narosa Publishing House Pvt. Ltd., New Delhi. **[2009]**
2. Enzymes in Food Processing: Fundamentals & Potential Applications, P. S. Panesar, S. S. Marwaha, Harish Kumar, **(In Press)**, Published by IK International Pvt. Ltd., New Delhi. **[2009]**

NATIONAL/INTERNATIONAL CONFERENCE/SEMINAR/WORKSHOP/SHORT TERM COURSES ATTENDED BY THE FACULTY

Name of faculty	Title of seminar/ conference/workshop	duration	name of the organization
Dr. Harish Kumar	27 th Annual Conference of Indian Council of Chemists	December 26-28, 2008	Gurukul Kangri Vishwavidyalaya, Haridwar
	National Symposium on Green Chemistry Applications in Science & Engineering	February 5-6, 2009	Thapar University, Patiala
	12 th Punjab Science Congress	Feb. 7-9, 2009.	Punjab Agricultural University, Ludhiana
	National Symposium on Emerging Trends in Chemical Analysis & Synthesis (ETCAS-09)	March 12-13, 2009	SLIET, Longowal
Dr. Damanjit Singh	National seminar on Emerging trends in Chemical Analysis (ETCAS-09)	March 12-13, 2009	SLIET, Longowal
	National symposium on analytical science : Analytical innovations for process and technology Development	Nov. 2008	IHBT Palampur
Dr. Dhiraj Sud	National symposium on analytical science : Analytical innovations for process and technology Development	Nov. 2008	IHBT Palampur

	Biennial symposium on emerging trends in separation science and technology (SESTEC-2008)	12-14, 2008	University of Delhi
	National Symposium in Emerging trends in chemical analysis and synthesis-ETCAS 2009	March 12-13 , 2009	SLIET, Longowal

NATIONAL/INTERNATIONAL CONFERENCE/SEMINAR/WORKSHOP/SHORT TERM COURSES CONDUCTED BY THE DEPARTMENT

National Symposium on Emerging Trends in Chemical Analysis and Synthesis (ETCAS-09)

A National symposium on Emerging trends in Chemical Analysis and Synthesis (ETCAS-09) was organized by department of chemistry on March 12-13, 2009. The aim of the symposium is to provide a podium to interact and rededicate to ourselves for sustaining our development efforts in both basic science and engineering science for multifaceted research. The present symposium was planned for the effectual deliberations and interaction on the current status on synthesis and applications of analytical techniques targeted for catering the needs of present era. The various fields such as Agricultural chemistry, Food chemistry, Environmental chemistry, Polymer Chemistry and other branches have been put under one platform for constructive outcomes. The symposium was attended by 110 delegates from various universities and colleges. There were five plenary sessions and two technical sessions- one for oral presentation and other for poster presentation. There were 15 invited talks from the invited speakers from various university and institutes viz. NIPER, Mohali, Delhi University, JNU, New Delhi, PAU Ludhiana, GNDU Amritsar and CDLU, Sirsa etc. There was also invited talk by German Chemist Frank-Michael Matysik from University of Regensburg, Institute of Analytical chemistry, Chemo and Biosensors, on topic "New approaches for coupling electrochemical methods with separation techniques". A cultural eve was organized on March 12, 2009 and was attended by more than 500 persons including students. More than 60 posters as well as oral presentation from different research areas were presented in the symposium. The valedictory function was on March 13, 2009. The overview of the conference was given by Dr. Lobana, Professor and invited speaker from Guru Nanak Dev University, Amritsar. He appreciated the efforts put by organizers to cover diversified topics and making the symposium a success. Two best poster awards were also presented to the research scholars. The two days symposium concluded with vote of thanks by Chairperson of symposium.

LECTURES BY VISITING EXPERTS

S.No.	Name of visiting expert	Title	Department
1	Frank-Michael Matysik	New approaches for coupling electrochemical methods with separation techniques	University of Regensburg, Regensburg, Universitaetsstr, 31, Germany
2	R.K.Sharma	A green chemistry approach towards chemical analysis and synthesis	Department of Chemistry, University of Delhi, Delhi
3	Shatendra K.Sharma	Recent trends in chemical analysis using X-rays	University Science Instrumentation Centre, Jawaharlal Nehru University, New Delhi
4	K.K.Chahal	Recent trends in the estimation of pesticides and heavy metals using Advanced Instrumental Techniques	Department of Chemistry, PAU, Ludhiana
5	Kamaljit Singh	Synthesis of life science relevant building blocks through site selective functionalisation through metalation	Deptt. of Applied Sciences & Tech., GNDU, Amritsar
6	Tarlok S. Lobana	Synthesis of coinage metal derivatives of thiosemicarbazones: A study of the influence of substituents at C ² carbon	Deptt of Chemistry, GNDU, Amritsar
7	Ashok Kumar Malik	Solid phase microextraction-High performance liquid chromatography as a novel tool for the analysis	Deptt of Chemistry, Ch.Devi Lal University, Sirsa
8	Ishtiaque Ahmad	Health and Energy: Carbohydrates, Fats and Oils	Deptt. of Chemistry, GNDU, Amritsar
9	B S Shekhon	Chemical Analysis of Chiral Pollutants: an overview	PCTE Institute of Pharmacy, Jhanda
10	Kamaluddin	Hematite Water System on Mars and its relevance in chemical evolution	Deptt. of Chemistry, IIT, Roorkee
11	Manoj Kumar	Chemosensors for Soft metal ions and anions based on thiocalix [4]arenes and Calix [4]arenes	Deptt. of Chemistry, GNDU, Amritsar
12	G.S.Sodhi	Chemistry in crime detection	Deptt. of Chemistry, University of Delhi, Delhi

LAURELS & DISTINCTIONS

BEST POSTER AWARDS ACHIEVED BY STUDENTS OF DEPARTMENT OF CHEMISTRY

Ultrasound promoted $\text{Cu}(\text{ClO}_4)_2$ Catalyzed Rapid Synthesis of Hantzsch and Biginelli Compounds, Saurabh Puri, Balbir Kaur, Anupama Parmar and Harish Kumar, Presented in "12th Punjab Science Congress" held at Punjab Agricultural University, Ludhiana on Feb. 7-9, 2009. **[BEST POSTER AWARD]**.

Best Poster Award-Novel TiO_2/ZnO photocatalysis for environment remediation: Synthesis characterization and their photocatalytic reactivity by Priti Bansal, Amit Dhir, Damanjit Singh and Dhiraj Sud presented in National Symposium on Analytical Sciences held at IHBT, Palampur-Nov. 25-28, 2008.

Best Poster Award-Contribution of Analytical Techniques for sequestering of Heavy Metal ions from Aqueous Solutions using various Biosorbents in different forms Garima Mahajan and Dhiraj Sud presented in National Symposium on Analytical Sciences held at IHBT, Palampur-Nov. 25-28, 2008

DOCTORAL PROGRAMMES

To boost the Research & Development activities of the institute, it was decided by the institute that 5 fellowships will be provided to the students for doing full time Ph.D in each department of the institute from the year 2009-2010. Already two numbers of fellowships are provided to the students doing Ph.D in the institute on regular basis. The number of applicants is increasing day by day for doing Ph.D in the institute after conferment of deemed to be university status. Total 11 Nos. of students are enrolled for Ph.D in the department of Chemistry. All the faculty members are holding doctorate degree and supervising students for Ph.D degree. Name of the supervisors are as follows:

Name of the supervisor

1. Dr. B.K.Kanungo, Professor
2. Dr. Dhiraj Sud, Assistant Professor
3. Dr. Harish Kumar, Assistant Professor
4. Dr. Damanjit Singh, Assistant Professor
5. Dr. Ram Pal, Assistant Professor

The area of research of the supervisors are

1. Supramolecular Chemistry
2. Nanochemistry
3. Computational Chemistry
4. Heterogenous Chemistry
5. Environmental Chemistry
6. Inorganic Chemistry
7. Organic Chemistry
8. Green Chemistry

RESEARCH DOING

Name of the candidate	Title	Year of registration
Kamalpreet kaur	Development of potential multidentate chelators for metal ion recognition	2007
Preeti Bansal	Studies on degradation and mineralization of synthetic dyes present in industrial effluents by heterogeneous photocatalysis.	2007
Garima Mahajan	Studies on agricultural waste biomass as potential biosorbent for heavy, metal ion remediation from aqueous streams	2007
Avtar Singh Rahi	Heterocyclic compounds synthesis antimicrobial studies on bridgehead nitrogen heterocycles containing 9-4, thiazolidinone nucleus	2007
Vikas Grover	Evaluation of forced decomposition studies of some selected hypoglycemic agents and their combination using different techniques and development of validated stability-indicating HPLC methods	2007
Ruby chauhan	Structural stability and fluorescence studies of some metal chelates: computational and experimental approach.	2007
Sanjit Kumar Kar	Improvement of processibility of wheat straw black liquor through chemical involvement in viscosity control	2008
Renu Sharma	Design, synthesis, structural and thermodynamic study of some biomimetic chelators	2008
Bhupinder Kaur	Newer method of Organic Synthesis	2008
Paramjit Kaur	Studies on degradation and biodegradability enhancement of organophosphate pesticides using heterogeneous photocatalysis	2009
Deepika	Synthesis and characterization of some polypyridyle metal complexes for applications in solar cell.	2009

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

BRIEF INTRODUCTION

The Department of Computer Science & Engineering envisages itself as one of the pioneers in providing quality education to produce skilled professionals to gratify the needs in all frontiers of the IT industry and to deliver meaningful services to society by inculcating them with strength of character, self-leadership, and self-attainment.

To meet the necessities at all the ends, the department of CSE, SLIET, Longowal is currently running one Certificate, two Diploma programmes, two Graduate courses and doctoral programme. Many research scholars are registered for their doctoral programme with the faculty of this department. The main research agenda entails fundamental and strategic issues related to the improvement and innovation of the cutting edge technologies for the welfare of society.

COURSES OFFERED BY THE DEPARTMENT

- 1) Certificate in Computer Applications
- 2) Diploma in Computer Sc.& Applications
- 3) Diploma in Computer Sc.& Engineering
- 4) BE in Computer Sc. & Engineering
- 5) BE in Information Technology

OBJECTIVES OF THE COURSES OFFERED BY THE DEPARTMENT

To enable students to learn new technologies, acquire appropriate theoretical knowledge and hands-on practical skills to keep pace with the technological advances in computing and information technologies.

ACADEMIC ACTIVITIES

1. Software development
2. Research
3. Handling data processing in SLIET Entrance Test
4. NPTEL project

LABORATORIES

1. Advanced IT Lab- PCs, Printer & Softwares
2. Hardware Lab- PCs, Printer & Scanner
3. Internet Technologies Lab- PCs & Printer
4. Linux Lab- PCs & Printer
5. Microprocessor Lab- Microprocessors Kits
6. New IT Lab- PCs, Printer & Softwares
7. IT Lab- PCs, Printer & Softwares
8. Novell Lab- PCs, Printer & Softwares

9. Project Lab- PCs & Softwares
10. Server Lab- Servers, PCs, Printer, Scanner & Softwares
11. Windows Lab- PCs, Printer & Softwares

NEW EQUIPMENTS PROCURED

S. No.	Equipment/ Item
1	8085 MP Kit, inbuilt PS
2	8086 MP Kit, inbuilt PS
3	ADC 809 Interface Module
4	8251 study card
5	8255 PPI study card
6	8257 DMA study card
7	8259 PIC study card
8	8279 study card
9	Computer System Core 2 Quad Q 9400 processor, 2.66 GHz, 2GB RAM, 320GB HDD, DVD Recordable, wireless LAN card, Keyboard, Mouse, 17" TFT,
10	LAN Trainer Kit with Network Emulation Unit-1 and Network Interface Unit-4
11	Qualnet 4.5.1 Network Simulator base libraries pack for five user teaching licence
12	Wimax Library
13	Cellular Library

RESEARCH & DEVELOPMENT

RESEARCH PROJECTS RECEIVED

S. No.	Title of the project	Investigators	Sponsoring Agency	Duration	Amount (In lacs)	Status
1	Automated Design of DIE from part product model	Dr. Jatinder Madan & Dr. Sukhwinder Singh	AICTE	3 Years	09	Under Process

RESEARCH PROJECTS COMPLETED : NIL

RESEARCH PUBLICATION

RESEARCH PAPERS PUBLISHED/BOOKS AUTHORED : NIL

RESEARCH PAPERS PRESENTED IN NATIONAL/ INTERNATIONAL CONFERENCE/ SEMINARS/ WORKSHOPS/ SHORT TERM COURSES

S. N.	Name of Author	Title of paper/ Publication	Name of Conference/Seminar/ Journal with volume	Year & Page No.	National/ International
1	Dr.Sukhwinder Singh, Mr.Mandeep Singh & Dr.Savita Kansal	Comparative Analysis of Fpatial filter for speckle reduction in ultrasound images	World congress on Computer Science & Information Engineering (vol.2009) held on March 31 st to April 2 nd 2009 at Loss Angles, USA	228-232	International

NATIONAL/INTERNATIONAL CONFERENCE/SEMINAR/WORKSHOP/SHORT TERM COURSES ATTENDED BY THE FACULTY

Sr. No.	Name of the faculty	Title of Seminar/ Conference/ Workshop/STC	Duration/ Period	Name of the Organization
1	Dr. Sukhwinder Singh	Effect of economic crisis on the I.T. Industry	10.11.2008	Deptt. of CSE, SLIET
2	Dr. Savita Kansal	Effect of economic crisis on the I.T. Industry	10.11.2008	Deptt. of CSE, SLIET
3	Mr. Manoj Sachan	Effect of economic crisis on the I.T. Industry	10.11.2008	Deptt. of CSE, SLIET
4	Mr. Birmohan Singh	Effect of economic crisis on the I.T. Industry	10.11.2008	Deptt. of CSE, SLIET
5	Mr. Pardeep Singh	Effect of economic crisis on the I.T. Industry	10.11.2008	Deptt. of CSE, SLIET
6	Mr. Major Singh	Effect of economic crisis on the I.T. Industry	10.11.2008	Deptt. of CSE, SLIET
7	Ms. Gurjinder Kaur	Effect of economic crisis on the I.T. Industry	10.11.2008	Deptt. of CSE, SLIET
8	Mr. Manminder Singh	Effect of economic crisis on the I.T. Industry	10.11.2008	Deptt. of CSE, SLIET
9	Mr. Jaspal Singh	Effect of economic crisis on the I.T. Industry	10.11.2008	Deptt. of CSE, SLIET

10	Mr. Vinod Kumar	Effect of economic crisis on the I.T. Industry	10.11.2008	Deptt. of CSE, SLIET
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NATIONAL/INTERNATIONAL CONFERENCE/SEMINAR/WORKSHOP/SHORT TERM COURSES CONDUCTED BY THE DEPARTMENT

S.N.	Title of the Conference/Seminar/STC	Name of Coordinators	Duration/ Period	Sponsoring Agency
1	Effect of economic crisis on the I.T. Industry	Dr. Sukhwinder Singh & Mr. Manoj Sachan	10.11.2008	SLIET

Brief Report : One day seminar was held on the topic “Effect of Economic Crisis on IT Industries” organized by Department of Computer Science & Engineering. The Expert was Mr. Niyam Bhushan, Computer Graphics Consultant.

The current financial crises in the U.S. has originated in the indiscriminate lending of housing loans in that country’s sub-prime mortgage market. Among the client were the investors with poor credit histories or insufficient financial resources. Sub-prime lending has resulted in high levels of defaults. The banks were laying huge bets with each other over loans and assets. Complex transactions were designed to move risk and disguise the sliding value of assets. As investors are risk averse, they realized the situations, losses occurred, and the market as a whole plummeted. This led to a deep credit crunch in the U.S., and the effect of which was felt across the globe.

The economic crisis badly hit the Indian Stock Market, IT industries, Banks, Real estate, India’s Exports, Rupee value. Nearly the half of the IT sector firms’ revenue comes from banking and financial institutions. The IT companies have these investment banks as their clients. With the effect of financial crises, IT companies are not able to enhance their business with these investment banks, and, in turn, started retrenching their employees.

The outsourcing industry is one of fastest growing business in India and it is not only generating billions of revenue but also providing employment opportunities to millions of people. But incidents of economic slowdown and financial crisis in the global market may pose a threat to the outsourcing industry in India. The cost-effective rates in India have kept this business steadily rising and it is way ahead of its competitors due to the same reason.

The impact of economic crises on the Indian economy is less in comparison with US and UK economy. The Indian IT companies whose revenue comes from US and UK market they are effected. He briefed about the financial crises and its effects in the coming times. He also suggested the remedial strategies from the view point of students.

The students were suggested to work in the area of open source and domestic IT area.

CONSULTANCY : NIL

LECTURES BY VISITING EXPERTS

S.N.	Name of the Speaker/visiting Expert	Name of the Department	Title
1	Mr. Niyam Bhushan	Industrial Consultant	Effect of Economic Crisis on the IT Industry

LAURELS & DISTINCTIONS : **NIL**

DISTINCTIONS ACHIEVED BY STUDENTS : **NIL**

DOCTORAL PROGRAMMES : **NIL**

PH.D DEGREE AWARDED : **NIL**

RESEARCH DOING

S.N.	Name of Candidate	Title of subject	Year of Registration	Worked at college/QIP centre
1	Mr. Birmohan Singh	Computer Aided Diagnosis for Detection of abnormalities in mammograms	06.09.2007	SLIET-Longowal
2	Mrs. Gurjinder Kaur	Image Enhancement Techniques	28.12.2007	SLIET-Longowal
3	Mr. Akshay Girdhar	Image Segmentation Techniques	28.12.2007	SLIET-Longowal
4	Mr. Amit Kamra	Detection of Subtle Signs of Breast Cancer	28.12.2007	SLIET-Longowal

OTHER EVENTS/ACTIVITIES OF THE DEPARTMENT

Campus wide Network Management and Maintenance
 Internet Maintenance
 Institute Website Maintenance
 PCs/Peripheral Maintenance of the Institute

DEPARTMENT OF ELECTRICAL & INSTRUMENTATION ENGINEERING

BRIEF INTRODUCTION:

Electrical and Instrumentation Engineering department is poised to impart technical education related to the development of manpower, from the level of skilled workers to the engineering graduates. The department caters to the manpower and technical requirements of various sophisticated and household industries such as petro-chemical, fertilizer, cement, power generation stations, bio-medical industries, etc. The department is in the process of undertaking various projects from various Government funding agencies like MHRD, DST, etc. Moreover, the department is also planning to initiate industry-institute interaction to share various resources and to provide consultancy services by organizing joint seminars, workshops and short term training programmes. The department has started the Post-graduate M.Tech Course with specialization in Instrumentation and Control Engineering.

COURSES OFFERED:

Certificate Course in Maintenance of Electrical Equipment (CMEE), 30
Certificate Course in Servicing and Maintenance of Medical Equipments (CSMM), 30
Diploma in Instrumentation and Process Control Engineering (DIN), 30
Degree in Instrumentation Engineering (GIN), 30
M Tech in Instrumentation and Control, 18

OBJECTIVE OF COURSES OFFERED BY THE DEPARTMENT:

The goal of the department is not merely to cram the brains with facts and figures, names and dates, but rather to teach how to think, solve problems, and adapt to any situation that life may throw at.

ACADEMIC ACTIVITIES

LABORATORIES

The important aspect of laboratory in engineering curriculum is the teaching of correct laboratory techniques, which can then be successfully employed in field later on. Further trouble shooting in Industrial process or Electrical and Electronics network is another field required to study practically in the laboratories. Excellent facilities are available in the department to carryout experimental and research work. The highlights of individual laboratories are as under:

Transducer Laboratory : Transducer Laboratory equipped with modern measurement instrumentation equipment, which helps the students to study different mechanism of measurement of Temperature, pressure, density, humidity, displacement, force, speed, torque, stress etc. Students learn to measure as well as develop the skill to calibrate the temperature and pressure gauges etc.

Analytical Instrumentation Laboratory : It is the one of important laboratory for diploma & degree students for their course curriculum. The aim t establish this laboratory for practical training in the field of analytical instrumentation like flaws detection in the metallic pieces using ultrasonic flaw detector sample analysis using gas chromatograph flame photometer atomic absorption atomic spectro-photometer etc. It also used for determination moisture contents humidity conductivity and dissolved oxygen contents in a given material sample. Major Equipments are:

Gas Chromatograph: For determination of composition in given air sample.

Atomic Absorption Photo spectrometer: For determination of metallic composition in given Liquid sample (Presently only copper composition can be determined)

Ultrasonic Flaw Detector for determination of Flaws in metallic pieces

UV/Visible Spectrophotometer for transmittance & absorbance of a given sample solution

PH & Conductivity meter: For determination of PH and conductivity of given solution

Moisture Analyzer for Moisture control in a given material sample

Digital Signal Processing Laboratory: This laboratory is useful for the graduate and post graduate students for experimental and research work. This laboratory is to impart the knowledge of various DSP kits and their usage for UG, PG and research students. This laboratory is equipped with various DSP processors with evaluation modules, hardware emulators, code composer studio and Matlab software with Simulink to carry out any type of simulation and R&D work.

Instrumentation Workshop : Aim to establish this laboratory is to give basic information to students regarding identification and checking of various passive circuit elements. it is also used to provide an infrastructure to their projects for the assembly work, components testing and troubleshooting by using the different components and devices there. it is specially designed for the certificate, diploma and degree students. The consultancy work can also be done for faultfinding and rectification of various instruments. This laboratory is equipped with crops, function generators, pulse generators and power supplies to carry out any experimental /demonstration work.

Industrial Process Control Laboratory : This laboratory is to impart the practical knowledge about various process control and pneumatic/ hydraulic techniques used in modern day process industries. This laboratory is equipped with process simulation kit with feed forward and cascade control schemes, level control, advanced hydraulic trainer kit, pneumatic trainer kit, programmable logic trainer kit to carry out advanced experiments in process control engineering.

Pneumatic and Control Laboratory: This laboratory was one of the first laboratories, which was established in the electrical and instrumentation department. Process control is the integral part of any curriculum related to instrumentation engineering. This laboratory was established to make students aware about basic fundamentals of practical process control. Various control viz. closed dc loop control, cascade control, ratio control, PLC control are stimulated/practically implemented to give student a better understanding. Besides this advanced hydraulic trainer kit and pneumatic trainer kit inside into hydraulic and pneumatic

control principles. Controller Modules are procured in laboratory to demonstrate various controller configurations.

Basic Electrical Engineering : Laboratory: This laboratory is to impart the basic knowledge of various fundamentals of Electrical Engineering and their usage for all branches of Certificate, Diploma and UG students. This laboratory has support to carry out any experimental work and used as inter-disciplinary laboratory.

Power Electronics Laboratory : The laboratory is to impart practical knowledge especially to degree students of power electronics components and their applications. This laboratory is equipped with various modules for characteristic curve analysis of power electronic components (viz. diac, triac, thyristors and UJTs) and experimental setups of converters, inverters, choppers and speed control of dc motors. The consultancy work can be offered to the same field companies.

Electrical Workshop: Electrical workshop provides a platform for all kind of practical jobs like domestic wiring, fittings, drilling job, switchboard assembly, coil winding, repair and maintained work of various electrical appliances. It is designed specially for the certificate and diploma students' .it has its optimum utilization for the students project work for the assembly work, component testing and troubleshooting of devices and circuitries. This laboratory is equipped with automatic coil winding machine, insulation testers, earth testers, single phase & three phase transformers as well as loads to carry out any experimental/demonstration work.

Electrical Machine Laboratory : Electrical machines have wide field of applications in various engineering branches. Different types of electrical machines are used in various types of applications in domestic as well as in industry. The students are introduced about the various types of machines and study their characteristics practically. This laboratory is equipped with various dc machines, induction machines and transformers to carry out any experimental work.

Biomedical laboratory: Biomedical engineering is the emerging field and exposure to different instruments of biomedical will be a great help to the students. With the introduction of M. Tech classes many students can take a projects/dissertations in the bioelectrical signal-processing laboratory. Starting from certificate to PG classes, biomedical engineering laboratory is the part of curriculum. The consultancy can be provided in this area with the active collaboration of medical experts from Institutes of Higher learning. However, an expert system can be developed for the various disease diagnosis and the new instruments can also be devolve to help the pathologist.

Major Equipments are:

TMT-ECG Machine:	For determination of rest and exercise ECG of any subject.
EEG Machine:	For determination and analysis of EEG of any subject.
EMG Machine:	For determination and analysis of EMG signals of any subject.

Instrumentation Center: It is to impart practical training to the students in the field of calibrating pressure gauges, transducers switches and indicators etc. It also initiates the

research in the field of metrology. This laboratory is used by certificate to PG classes for their various project works and course curriculum like calibration facility for pressure gauges pressure transducers, pressure switches and pressure indicators, vacuum gauges etc. The laboratory is equipment with Pressure Calibration Test Bench for calibrating the pressure gauges up to 250 bars and vacuum gauges up to 760 mm of Hg.

Computational Centre: The centre is under development to provide the computational facilities to M.Tech, B.E, Diploma students to do their, M.Tech thesis or Project work, respectively. Presently 10 computers are providing 24 hour internet access and computational facility on MATLAB 6.1.

NEW EQUIPMENTS PROCURED : NIL

RESEARCH & DEVELOPMENT

RESEARCH PROJECT RECEIVED : NIL

RESEARCH PROJECT COMPLETED : NIL

RESEARCH PUBLICATIONS

RESEARCH PAPERS PUBLISHED/ BOOKS AUTHORED

S.N.	Author	Title of Paper/ Publication	Name of Journal with volume, year and page No.
1.	Lakhwinder Singh & J S Dhillon	Secure multi-objective real & reactive power allocation of thermal power units	<i>International journal of electrical & energy systems, vol.30, issue 10, Dec.08.pp.594-602</i>
2.	Lakhwinder Singh & J S Dhillon	Fuzzy based surrogate worth trade-off method for multi-objective thermal power dispatch	<i>Journal of institution of engineers (I), vol.EL-89, Dec.08, pp.19-24</i>
3.	Lakhwinder Singh & J S Dhillon	Interactive fuzzy decision making for multi-objective load dispatch	<i>International journal of sustainable energy, vol.27, no.1, March 08, pp.15-27</i>
4.	Y S Brar, J S Dhillon & D P Kothari	Genetic fuzzy based power scheduling technique for multi-objective load dispatch problem	<i>International journal of power & energy system, vol. 28, no.1, 2008, paper no. 203-3824</i>
5.	Lakhwinder Singh & J S Dhillon	Fuzzy satisfying multi-objective thermal power dispatch based on surrogate worth trade-off method	<i>Electrical power components & systems, vol.36, no.1, January, 2008, pp. 93-108</i>

RESEARCH PAPERS PRESENTED IN NATIONAL/ INTERNATIONAL CONFERENCES/ SEMINARS/ WORKSHOPS/ SHORT TERM COURSES

S.N.	Author	Title of the Paper/ Publications	Name of Conference/ Seminar Journal with volume, year, page No.	National/ International
1	Er. Gurmanik Kaur, Dr A S Arora, Dr V K Jain	A Review of Issues in Blood Pressure Monitoring	TACT-09	National
2	Gagandeep Kaur, Ajay Pal Singh, Dr V K Jain	Wireless Security System using GSM Technology	National Conference on Communications Networks (NCCN-09)	National

NATIONAL/ INTERNATIONAL CONFERENCE/ SEMINAR/ WORKSHOP/ SHORT TERM COURSES ATTENDED BY THE FACULTY

-NIL-

NATIONAL/ INTERNATIONAL CONFERENCE/ SEMINAR/ WORKSHOP/ SHORT TERM COURSES CONDUCTED BY THE DEPARTMENT

-NIL-

CONSULTANCY : NIL

LECTURES BY VISITING EXPERTS : NIL

LAURELS & DISTINCTIONS : NIL

DISTINCTIONS ACHIEVED BY THE STUDENTS : NIL

DOCTORAL PROGRAMMES

Title	Name of the Supervisor	Name of the Investigator	Brief Report
Multi-objective generation dispatch studies on electric power system	Dr. J. S. Dhillon	Mr. Jarnail Singh Dhillon , Regd No. 09.08.04 dated 05.03.04	PTU, Jalandhar
Fuzzy logic approach for multi-objective generation of electrical systems	Dr. J. S. Dhillon	Mr. Lakhwinder Singh Regd NO. 02.19.04 dated 20.03.08	PTU, Jalandhar
	Dr. J. S. Dhillon	Mr Nirbhowjap Singh	TU, Patiala
	Dr. J. S. Dhillon	Mr Nitin Narang	TU, Patiala

PH.D. DEGREE AWARDED

Name of the Investigator/ Candidate	Name of the Guide	Title of the Thesis	Remarks
Mrs. Ranjit Kaur	Dr. J. S. Dhillon		PU, Patiala

RESEARCH DOING

S. No.	Name of the Candidate	Title of subject	Year of Registration	Remarks (Worked at College/ QIP Centre)
1.	Sh. Sanjeev Singh	Power Electronics	2007	IIT, Delhi
2.	Mrs. Surita Maini (Under Guidance of Dr. Sanjay Marwaha)	FEM application in Biomedical	2008	SLIET, Longowal
3.	Mrs. Manpreet Kaur (under Guidance of Dr. A.S. Arora)	Analysis and Interpretation of ECG signal	2008	SLIET, Longowal
4.	Mr. Manmohan Singh			
5.	Mrs. Pratibha Tyagi			
6.	Mr. Jaspal Singh Aujla			

OTHER EVENTS/ ACTIVITIES OF THE DEPARTMENT

- Dr. V K Jain, Prof. & Head delivered an expert talk on “Electronic Systems Reliability” at Bhai Maha Singh Institute of Technology
- Dr. A S Arora, Prof. delivered an expert talk on “AI Applications in Biomedical Engineering” at NITTTR, Chandigarh.
- Dr. A S Arora, Prof. delivered an expert talk on “AI Applications in Engineering Research” at SLIET, Longowal.
- Dr. A S Arora chaired a session in conference at NIT, Hamirpur.
- Dr J S Dhillon, Prof. delivered an expert talk on “Evolutionary Programming & its applications using C/C++ during National Level Workshop on “Computational Aspects of Mathematics (IWCM-08), December 22-26, 2008, SLIET, Longowal.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

BRIEF INTRODUCTION

ECE Department shall strive to act as an international podium for the development and transfer of technical competence in the field of Electronics and Communication Engineering through formal and non-formal education, entrepreneurship and research to meet the changing need of society in general and electronic industry in particular. ECE Department at SLIET, Longowal is committed to develop high quality, professionally groomed technical and engineering manpower possessing multifaceted personality, respect for professional and social ethics, national values and the spirit of human emancipation. The Department shall commit to continually upgrade the curriculum matching with global needs and priorities, the delivery methodology and the infrastructural facilities through periodic self-assessment and formal reviews. It is further committed to the welfare and professional development of its employees by providing necessary opportunities and facilities for their self-development in a conducive and congenial environment, promoting teamwork and proactive participation. The mission of ECE Department is to create technical manpower to fulfill the requirement at various levels of electronic industry through quality teaching, training, research and extension services.

COURSES OFFERED

- a) Certificate in:
 - i) Servicing & Maintenance of Electronics Instruments
 - ii) Maintenance of T.V.
- b) Diploma in Electronics & Communication Engineering
- c) Bachelor in Electronics & Communication Engineering
- d) Master degree in Electronics and Communication Engineering

OBJECTIVE OF THE COURSES

Conventional courses like Certificate Courses (CSME and CTV), Diploma in Communication Engineering (DEC), Bachelor in Electronics & Communication Engineering (GEC) and Masters degree in Electronics and Communication Engineering, (PGEC) are designed so as to fulfill all the requirements towards the award of Certificates, Diploma and Bachelor Degree to the students studying in these courses respectively and to meet the need of the industry of the skilled manpower at every level. In addition, special stress is given on the practical training of the students, including industrial Training at every level, in order to expose them to industrial environment.

ACADEMIC ACTIVITIES

LABORATORIES:

The following are the Laboratories in the department and all laboratories are provided with computer and Internet facility.

TV Lab: A fully furnished lab with all audio & video technological equipment required for undergraduate curriculum. The lab also has necessary infrastructure to serve as a TV Lab.

This lab has all the safety and shock proof measures since TV trainers have high voltage at some of the points which may prove dangerous especially in case of colour television trainers. This lab is meant for the students to be introduced to the basic audio/video equipment like cassettes players, television, V.C.R. shaping into hi-tech devices of today like digital audio systems, VCD players etc. This enables them to fathom latest technologies in audio/video fields. This Lab is fully equipped with the following equipments: -

- Colour TV trainer kits.
- Monochrome TV trainer kits.
- V.C.R. trainer with remote control assembly.
- Audio Cassette Player Trainers.

Basic Electronics Lab: Even to fly high in the sky one needs to take-off from the land. That land/platform is provided by the Basic Electronics Laboratory. In other words, each long life and sophisticated building needs strong pedestal at the base. Analog electronics lab is meant for the essential basic knowledge and building of fundamentals among the students about various electronics devices and related circuitry.

Students here learn to play their hands over small circuits like voltage amplifier, current amplifiers, combinations of resistors, capacitors & inductors in addition to differentiators and integrators. These basics help them to tackle the equipment at higher levels.

Basic Communication Lab: Besides analog circuitry, the next, fascinating and essential subject of Electronics & Communications students is and should be communication lab. A lab built on similar structure as above mentioned in rooting of ideas and zeal among students taking communication as basic course. Lab has all necessary trainer kits and analyzing apparatus for the required need. It caters the students with analog communication kits viz. amplitude modulation, frequency modulation, phase modulation, pulse code modulation, pulse width modulation and time division multiplexing.

Advance Communication Lab: An advance and well-equipped laboratory with state of art infrastructure for undertaking higher studies in communication. The facilities include:

- DSP System Development Hardware
- Digital Oscillators
- Modem Trainer
- Optical Fiber Communication kits/trainers
- Digital Communication kits/trainers
- Satellite Receiver Trainer
- Antenna System Trainer
- Fiber Optic Communication Kit
- Telegraphic Data Tester
- EPABX Trainer

Integrated Circuit Lab: For fulfilling needs of studies in digital electronics, the lab has a number of gates and ICs. The students are encouraged to put all components of any circuit on the bread board and check their results. The lab has:

- IC Testers
- EPROM Programmers
- Logic Analyzer
- Digital Pressure Meter
- Digital Load Indicator
- Digital Thermometer

The lab also has an extensive library of ICs, components and related study materials guiding every need of experiment undertaken here.

Microprocessor Lab: This lab is extensively used by the students for their projects apart from their regular courses in microprocessors. This lab has following major equipments:

- Microprocessors 8085 Kits
- Microprocessors 8086 Kits
- Microcontroller Kits
- Microprocessors 68000 Kit

PCB Lab: The lab has an adequate infrastructure to impart PCB manufacturing skills to the students. The lab is fully capable of undertaking large commercial production of single and double sides PCBs. The facilities include:

- Vertical Process Camera
- Photoresist dip coating machine
- Ultra Violet Ray Unit
- Plated through holes system
- Rotoetching machine with provision for double-sided PCBs.

Computer Lab: A well-furnished lab has been entitled as department's computer center and serves software needs of students of Electronics & Communication. The lab has:

- Windows NT environment for N/W architecture
- Server
- Multimedia Projector
- Laser Printer
- Latest software tools for real time simulation like ORCAD, MATLAB, CommSim, MultiSim, Radio lab 3G, and Mathamatica 5.1 etc.

This lab is extensively utilized by the students for their project work.

Servicing Lab: The laboratory equipped with all necessary tools and an aid not only provide the students with necessary diagnostics and troubleshooting skills but also extends service support to all laboratory in the department. Students are encouraged to arm them with suitable skills.

DSP Design Lab: To inculcate a Designer's mind amongst the students, Electronics & Communication Engineering Department is proud to be in the process of setting-up a signal processing design center. In this center the students will be able to play with Silicon and create design catering to the needs of 3rd generation Wireless Communication System. At present center have the following tools available:

FPGA Design Tools which include Xilinx and Altera Series of FPGA's
DSP Development Board based on TMS-320C6711 based DSP chip
MATLAB
PC (P-IV) 6 systems
Xtreme DSP Development Kit

NEW EQUIPMENTS PROCURED

CROs, function generators, frequency counters, communication lab equipment including kits for receivers, amplitude, frequency, PAM, PWM, PPM, PCM modulation and demodulation, washing machine trainer, stereo trainer, microwave lab equipment, Proteus VSM Software, LABVIEW Software.

RESEARCH & DEVELOPMENT

The research has been initiated in the following emerging areas in the field of Electronics and Communication Engineering:

- (i) Soft Computing and Wireless Sensors
- (ii) Optical Communication Systems and Networks
- (iii) Mobile IP Networks
- (iv) Electromagnetic Devices

RESEARCH PUBLICATION

RESEARCH PAPERS PUBLISHED JOURNAL/BOOKS AUTHORED

1. A. P. Singh et al, "Fractional Fourier and Cosine Transforms in Image Compression," International Journal of Information Technology and Knowledge Management, pp.139-145, vol. 1, no.1, 2008.
2. A. P. Singh et al, "Biometrics: State of the Art and Current Issues," Technorma, pp.29-35, vol. 58 (T), 2009.
3. A. P. Singh et al, "Fuzzy Rule Base Generation from Numerical Data using Biogeography-based Optimization," Journal of Institution of Engineers (India), E. and T. Engg. Division, vol.90, July, 2009.
4. A. P. Singh et al, "On the Design of a Rectangular Microstrip Antenna using Artificial Neural Network," Journal of Institution of Engineers (India), E and T Engg. Division, vol.90, July 2009.
5. Anupma Marwaha et al., "Mesh Refinement Technique using Adaptive Delaunay Triangulation", International Journal of Engineering. Research & Industrial. Applications, vol. 2, no.3, pp1-8, 2009.
6. Anupma Marwaha et al., "Comparative Mechanical Dynamic Analysis of Permanent Magnet Generator Using Finite Element and Fuzzy Methods", Bentham Open Automation and Control System Journal, ISSN: 1874-4443, Volume 2, 2009, pp. 8-12.
7. Anupma Marwaha et al., "Performance investigation of a permanent magnet generator", Journal of Simulation, Modelling Practice and Theory, Elsevier Science, In press 2009.

8. Anupma Marwaha et al., "Finite Element Model to Examine the Performance of Linear Induction Motor Under Constant Voltage Feeding", International Journal of Engineering Research and Industrial Applications, ISSN 0974-1518, Vol. 2, No. II, 2009, pp. 97-103.
9. Anupma Marwaha et al., "Floating Sleeve Co-axial Antenna for Microwave Coagulation Therapy", International Journal of Engineering Research and Industrial Applications, ISSN 0974-1518, Vol. 1, No. VII, 2008, pp. 323-331.
10. Anupma Marwaha et al., "Finite Element 2-D Modeling of Electromagnetic Devices taking account of the Rotation" International Journal of Engineering Research and Industrial Applications, 2008, Vol. 1, No.111, pp. 95-103.
11. Anupma Marwaha et al., "Finite Element Analysis of Switched Reluctance Motor Drive Under Fault Conditions", International Journal of Engineering Research and Industrial Applications, ISSN 0974-1518, Vol. 1, No. VII, 2008, pp. 51-60.
12. Surinder Singh et al, "Assessment to Gain Saturation in Cascaded Semiconductor Optical Amplifier for High Bit rate WDM Signals over Long Transmission Distance" International Journal of Optical Engineering, vol. 47, issue 3, pp. 035008-1-8, March 2008, USA.
13. Surinder Singh et al, "Boost up of four wave mixing signal in semiconductor optical amplifier for 40 Gb/s optical frequency conversion", published in International Journal of Optics Communication, Vol. 281, Issue 9, pp. 2618-2626, May 2008 (available online: sciencedirect.com) Elsevier Science, Netherlands.
14. Surinder Singh et al "Enhancement of Ring Network in presence of optimized Semiconductor Optical Amplifiers," Article in Press for publication in optik-International Journal for Light and Electron Optics, Volume 120, Issue 6, March 2009, Pages 295-300 (available online: sciencedirect.com) Elsevier Science, Germany.
15. Surinder Singh et al, "Wavelength Converter using Semiconductor Optical Amplifier-Mach-Zehnder interferometer Based on XPM at 40 Gb/s for Future Transport Networks," Fiber and Integrated Optics incorporating International Journal on Optoelectronics, Volume 28, Issue 2, 2009, Pages 154 – 169, Taylor and Francis, UK.
16. Jatinder Singh, Rajiv K. Ranjan , Performance Evaluation of Mobile Ad Hoc Networks Using Routing with Selfish Nodes, International Journal on Intelligent Electronic Systems, Vol.2, no.1, July 2008.

RESEARCH PAPERS PRESENTED IN NATIONAL/INTERNATIONAL CONFERENCE/ SEMINARS/ WORKSHOPS/ SHORT TERM COURSES

1. Amar Partap Singh et al., "Soft Computing Approaches to Fuzzy System Identification: A Survey," 3rd International Conference on Intelligent Systems and Networks (IISN-2009), Feb 14-16, 2009, ISTK, Jagadhri, Haryana, India, pp.402-411.
2. Amar Partap Singh et al, "Computing Textural features Based on Grey-level histogram Moments for digitized Mammograms," in Proc. of National Conference on Communications & Networking (NCCN-09), organized by Department of Electronics & Communication Engineering, SLIET, Longowal, pp.83-86, March 6-7, 2009.
3. Amar Partap Singh et al, "Performance of discrete Fractional Cosine Transform in Image Compression," in Proc. of National Conference on Communications & Networking (NCCN-09), organized by Department of Electronics & Communication Engineering, SLIET, Longowal, pp.133-136, March 6-7, 2009.

4. Amar Partap Singh et al, "Low Cost Supervisory Circuits for Microcontroller Systems," in Proc. of National Conference on Communications & Networking (NCCN-09), organized by Department of Electronics & Communication Engineering, SLIET, Longowal, pp.139-142, March 6-7, 2009.
5. Anupma Marwaha et al., "Microwave Ablation: Technical Challenges for Future", International Conference on Wireless Networks & Embedded Systems (WECON-2008), Chitkara Institute of Engg. & Tech., October 18-19th, 2008. pp. 601-602.
6. Anupma Marwaha et al., "Eddy Current Analysis of Induction Machine by 3D FEM", IEEE Power India Conference, IIT Delhi, October 12-15, 2008.
7. Lakhvinder Singh Solanki, P.C. Upadhyay et al " Enhancement in radar gain with Multi-carrier Coherent Pulse Shaping", proceedings of "National Conference on Communication & Networking" (NCCN'08), Sant Longowal Institute of Engineering & Technology, India, pp 115-117, 27-28 March 2008.
8. Lakhvinder Singh Solanki, P.C.. Upadhyay et al "Effect of Skin Thickness in Breast Tumor Detection using Microwaves ", proceedings of "2nd National Conference on Communication & Networking" (NCCN-09), Sant Longowal Institute of Engineering & Technology, India, 06-07 March 2009.

NATIONAL/INTERNATIONAL CONFERENCES/ SEMINAR/ WORKSHOP/ SHORT TERM COURSES ATTENDED BY THE FACULTY.

1. Anupma Marwaha attended AICTE/ISTE Short term training program on "Research Methods in Engineering" conducted at S.L.I.E.T., Longowal from 16/02/09 to 27/02/09.
2. Anupma Marwaha attended MHRD-AICTE Staff Development program on "High Performance Computing - Issues and Applications" conducted at S.L.I.E.T., Longowal from 29/06/09 to 10/07/09.

NATIONAL/INTERNATIONAL CONFERENCE/SEMINAR/WORKSHOP/SHORT TERM COURSES CONDUCTED BY THE DEPARTMENT

Two days 2nd National Conference on Communication & Networking (NCCN'09) in Electronic Communications during 6-7 March 2009.

In continuation with previous conference 2nd National Conference was conducted successfully in the Department on 6th and 7th March 2009. The conference was inaugurated by Dr B.S. Sohi, Director, UIET Chandigarh. The conference aimed at discussing the latest development and design of electronic communication systems and networks. Overwhelming response was received from all over the country with around 50 high quality papers being selected for presentation in the conference. Expert talks were delivered by eminent personalities in the field of Electronics and Communication Engineering. Dr. Shakti Kumar Director, ISTK Klawat, Distt Yamunanagar, Dr. Jitender Chhabra, Asstt Prof, NIT Kurukshetra and Dr. Raju K. Solomon, Scientist E-1, CEERI Pilani were the resource persons in the conference. New innovations were explored and ideas discussed rigorously. The conference provided the platform for exchange of thoughts and dissemination for knowledge about technological advances in the field of Electronics and Communication Engineering.

Photographs of National Conference on Communication & Networking (NCCN'09) in Electronic Communications during 6-7 March 2009.



Three days workshop on “Introduction to LabVIEW software” organized in collaboration with M/S Trident Techlab, New Delhi from 19-21 May 2009.

Workshop on Labview software was conducted in the Department from 19th to 21st May 2009 in collaboration with M/S Trident Techlab, New Delhi keeping in view the students and research requirements. The software training was useful for the B.tech students involved in preparing project and also for those undergoing practical training. It will also be beneficial for the PG students and for the PhD research work.

CONSULTANCY : NIL

LECTURES BY VISITING EXPERTS

- (i) Expert lecture delivered by Dr. Shakti Kumar, Director, ISTK Klawat, Distt Yamunanagar on 6th March, 2009 during 2nd National Conference on Communication & Networking (NCCN'09) in Electronic Communications.
- (ii) Expert lecture delivered by Dr. Jitender Chhabra, Asstt Prof, NIT Kurukshetra on 6th March, 2009 during 2nd National Conference on Communication & Networking (NCCN'09) in Electronic Communications.
- (iii) Expert lecture delivered by Dr. R. Raju K. Solomon, Scientist E-1, CEERI Pilani on 7th March, 2009 during 2nd National Conference on Communication & Networking (NCCN'09) in Electronic Communications.
- (iv) A series of expert talks conducted during three days workshop on “Introduction to Labview software” organized in collaboration with M/S Trident Techlab, New Delhi in the department from 19th to 21st May 2009.

LAURELS & DISTINCTIONS:

Dr. A.P.Singh's Biography included in **2009 and 2010 Editions of Who's who in the World** published by **MARQUIS Who's Who**, 890 Mountain Ave, Suite 300, New Province NJ-07974 (USA).

Dr. A.P.Singh's Biography figured in **IBC Top 100 Educators** by the International Biographical Center **Cambridge, England** in the year **2009**.

Dr. A.P.Singh's Biography nominated for inclusion in “**2000 Outstanding Intellectuals of the 21st Century**” going to be published by International Biographical Centre, **Cambridge, England** in the year **2010**.

Certificate of merit awarded by the Institution of Engineers (India) in Jan.2009 to Anupma Marwaha for the paper published in the Journal of IEI entitled “Design and Simulation of Fuzzy, Neuro Fuzzy Based Optimizer and Comparative Analysis of Unit Commitment Problem” (Vol. 88, Sept. 2007).

DISTINCTIONS ACHIEVED BY STUDENTS : NIL
DOCTORAL PROGRAMMES

The research has been initiated in the following emerging areas in the field of Electronics and Communication Engineering:

- (i) Soft Computing and Wireless Sensors
- (ii) Optical Communication Systems and Networks
- (iii) Mobile IP Networks
- (iv) Electromagnetic Devices

Presently 06 Number of students are enrolled for their Ph.D. Programme in the ECE Department

PH. D DEGREE AWARDED : NIL
RESEARCH DOING:

- (i) Dr A.P. Singh is working on Soft Computing.
- (ii) Dr. P.C.Upadhyay is working on Mobile IP networks.
- (iii) Dr Anupama Marwaha is working on Design of Electromagnetic Devices.
- (iv) Dr. Harish Kumar Singla is working on fiber optics communications.
- (v) Dr Surinder Singh is working on Optical amplifiers in Communication systems and networks.
- (vi) Er Lakhvinder Singh Solanki is working on Electromagnetic Wave scattering from different type of surfaces.
- (vii) Er. Jagpal Singh Ubhi is working on Wireless Communication field.
- (viii) Er. Ajay Pal Singh is doing research on Digital Image Processing.
- (ix) Er. R. K. Ranjan is doing research in VLSI design.

CHIEF/OTHER EVENTS/ACTIVITIES OF THE DEPARTMENT

Expert Talks

1. Topic, “Current Issues in Wireless Communications,” delivered in One Day Seminar on World Telecommunication Day and Information Society, organized by Ryat & Bahra Institute of Engineering & Biotechnology,” Sahuran campus on May 17, 2008 under the banner of Institution of Engineers (India). by Dr. A. P. Singh.
2. Topic, “Fourth Generation Graphical Integrated Programming Technology,” delivered in One Week Workshop on Faculty Development organized by Ryat & Bahra Institute of Engineering & Biotechnology,” Sahuran campus on 06.01.2009 followed by Interactive Session for the Teachers of the Ryat & Bahra Group for the subjects of CSE & IT by Dr. A. P. Singh.
3. Topic, “An Introduction to Virtual Instrumentation,” delivered in AICTE/ISTE Sponsored Short Term Training Programme (STTP) on “Research Methods in Engineering,”

- organized by Department of Mechanical Engineering, SLIET, Longowal on 16-27 Feb., 2009 by Dr. A. P. Singh.
4. Topic, "An Introduction to Virtual Instrumentation," in All India Seminar on Emerging Trends in Wireless Communication-Vision 2020 (ETWC-09)," on March 13-14, 2009 organized by Doaba Institute of Engineering & Technology (DIET), Kharar (Mohali) under the banner of Institution of Engineers (India) by Dr. A. P. Singh.
 5. A series of Expert talk on the topic, "High Performance Computing: Issues and Applications," during Two Week AICTE sponsored Staff Development Programme (SDP) on High Performance Computing: Issues and Applications, organized by Department of Computer Science and Engineering, SLIET, Longowal on June 29 to July 10, 2009 by Dr. A. P. Singh.
 6. A series of Expert talk on the topic, "Genetic Algorithms in Engineering and Management," during Two Week AICTE sponsored Staff Development Programme (SDP) on Managerial and Communicative Skills in the Era of Globalization, organized by Department of EDP & Languages, SLIET, Longowal on July 21-31, 2009 by Dr. A. P. Singh.
 7. A series of Expert talk on the topic, "The Power of Virtual Instrumentation," during One Week AICTE sponsored Staff Development Programme (SDP) on Measurement and Testing Techniques in Mechanical Engineering, organized by Department of Mechanical Engineering, SLIET, Longowal on July 27-31, 2009 by Dr. A. P. Singh.
 8. A series of Expert talk on the topic, "Genetic Algorithms: The Mantra of Optimization," during One Week AICTE sponsored Staff Development Programme (SDP) on Computer Applications in Food Processing & Technology (SDP-CAFPT), organized by Department of Food Engineering & Technology, SLIET, Longowal on July 27-31, 2009 by Dr. A. P. Singh.

SLIET Electronics Society (SES) and student chapter of Institution of Engineers (India) are actively engaged in organizing technical and other creative in the department. This includes arranging of technical symposia, expert lectures, counseling sessions, quiz sessions, etc.

DEPARTMENT OF FOOD ENGINEERING & TECHNOLOGY

BRIEF INTRODUCTION

The department has been functioning as a full fledged department since 1991. It offers two years certificate course in Food Technology, two years diploma course in Food Technology, three years Degree (B. E. in Food Technology), two years Postgraduate (M. Tech. in Food Engineering and Technology) and Ph. D. The graduate program (B. E. in Food Technology) is in the process of re-accreditation by NBA, AICTE, New Delhi.

The department has well qualified faculty members having Ph. D. from prestigious institutions like, IIT, Kharagpur, GBPUAT, Pantnagar, UICT, Mumbai, CFTRI, Mysore, Punjabi University, Patiala, PAU, Ludhiana, Punjab Technical University, Jalandhar. Department has twelve well-planned, spacious and equipped laboratories for practical classes, training and research. The department has the infrastructure to manufacture and analyze products of dairy, fruits and vegetables, bakery and animal origin. Facilities are also available to conduct food grade oil testing, microbiological evaluations, new product development and evaluation. It can also offer consultancy services in the areas of food processing and technology. The department is well set to organize short-term training programs for the technical staff of the agro-based food processing industry.

COURSES OFFERED

1. Certificate in Food Technology
2. Diploma in Food Processing
3. B. E. in Food Technology
4. M. Tech. in Food Engg. & Tech.
5. Ph.D.

OBJECTIVE OF THE COURSES OFFERED BY THE DEPARTMENT

- i) To increase technical manpower to make them suitable for industries at various levels.
- ii) To provide theoretical as well as practical knowledge to the students for all round development.
- iii) To motivate the students to become job creators rather than job seekers.

ACADEMIC ACTIVITIES

The department offers five programmes:

1. Certificate in Food Technology
2. Diploma in Food Technology
3. Degree in Food Technology
4. M.E. in Food Engineering and Technology
5. Ph. D.

LABORATORIES

Alveograph

Fermentor

Gas chromatograph

Phase contrast microscope

Pasta making machine
Refrigerated centrifuge
Texture analyzer
Viscometer (Brookfield)
Falling number apparatus
Fluidized bed drier
High performance liquid chromatography
Nitrogen analyzer
Rapid fat extractor
Reverse osmosis
UV Visible spectrophotometer
Spray dryer
Atomic absorption spectrophotometer
Freeze dryer
Hunter calorimeter
Fibertec

LABORATORY EQUIPMENTS

Canning Line Unit, , UV Cabinet, Polarimeter, Aeration Apparatus, Tensile Tester, Heat Transfer Apparatus, Moisture Balance Unit Cabinet, Dryer, Hydraulic Press, Vacuum Filling Machine, Baking Line, Refrigeration Tutor, Spectrophotometer, IR Moisture tester, Rotary vacuum evaporator, centrifuge, Laminar Flow, Bench rice Sheller, Rice Polisher, Hammer mill, Burr mill, Seed grader, Blower, Ball mill, Bursting strength tester, Compression force tester, vacuum filling machine, Heat sealing machine, Tear resistance tester, Drop tester, Apple grater, Juice extractor, Shrink packaging machine, Deep freezer, Four door refrigeration unit, Ice-cream making machine, Gerber centrifuge, , Butryo-refractometer, Steam jacketed vat, Wet grinder, Dough Mixer, Humidity Chamber, Baking Oven, Bread slicer etc.

NEW EQUIPMENTS PROCURED DURING 2008-09

1. UV-Vis Spectrophotometer
2. Refrigerated Centrifuge
3. Autoclave
4. Laminar Air flow

RESEARCH & DEVELOPMENT

RESEARCH PROJECTS RECEIVED DURING THE YEAR

“Lactulose production by permeabilized yeast cells using immobilized cell technology” funded by CSIR, GOI, New Delhi with fund amount of Rs. 16.76 lakh for 2009-2012 Dr. P. S. Panesar

RESEARCH PROJECT COMPLETED DURING THE YEAR 2008-09 : NIL

RESEARCH PUBLICATION

RESEARCH PAPERS PUBLISHED/ BOOKS AUTHORED

1. P.S. Panesar (2008) Application of response surface methodology for maximal lactose hydrolysis in whole milk using permeabilized yeast cells. *Acta Alimentaria*, 37: 191-203.
2. Kaur, H, and Kumar, P. 2008. Mango soy fortified probiotic yoghurt: effect of culture addition and temperature on textural characteristics. *Journal of Texture Studies* 39(6):673 – 694.
3. B. Singh, P.S. Panesar and V. Nanda (2008) Optimization of osmotic dehydration process of carrot cubes in sucrose solution. *Journal of Food Process Engg.* 31: 1-20.
4. B. Singh, P.S. Panesar, V. Nanda, and M.B. Bera (2008) Optimization of osmotic dehydration process of carrot cubes in sodium chloride solution. *International Journal of Food Engineering.* 4 (2) Art. 1, page 1-22.
5. A. Thakur, P.S. Panesar and M. Singh (2008) Parametric optimization of lactic acid extraction from aqueous solution in a mixed flow reactor using emulsion liquid membrane by response surface methodology. *Chemical and Biochemical Engineering Quarterly*, 22: 157-167.
6. M.B. Bera, P.S. Panesar, R. Panesar and B. Singh (2008) Application of reverse micelle extraction process for amylase recovery using response surface methodology. *Bioprocess Biosystems Engineering*, 31: 379-384.
7. B. Singh, P.S. Panesar and V. Nanda (2008) Osmotic dehydration kinetics of carrot cubes in sodium chloride solution. *International Journal of Food Science & Technology*, 43: 1361-1370.
8. P.S. Panesar (2008) Application of response surface methodology in the permeabilization of yeast cells for lactose hydrolysis. *Biochemical Engineering Journal*, 39: 91-96.
9. Gurpreet Kaur, P.S. Panesar, M.B. Bera and H. Kumar (2009) Hydrolysis of whey lactose using CTAB-permeabilized yeast cells *Bioprocess Biosystems Engineering*, 32: 63-67
10. D.V. Rai, Gaurav Kumar, Priyamvada Tewari, D.C. Saxena (2008) Acute and chronic dose of alcohol affect the load carrying capacity of long bone in rats *Journal of Biomechanics*, Vol. 41: 20–24
11. Gagan Deep Singh, Amrinder S. Bawa, Sukchcharn Singh, Dharmesh C. Saxena (2009) Physicochemical, pasting, thermal and morphological characteristics of Indian water chestnut (*Trapa natans*) starch *Starch/Stärke*, Vol. 61: 35–42
12. Rajiv Sharma, D.S. Sogi and D.C. Saxena (2009) Dehulling performance and textural characteristics of unshelled and shelled sunflower (*Helianthus annuus* L.) seeds *Journal of Food Engineering*, Vol. 92 : 1–7

RESEARCH PAPERS PRESENTED IN NATIONAL/ INTERNATIONAL CONFERENCE/ SEMINARS/ WORKSHOPS/SHORT TERM COURSES

1. P.S. Panesar (2008) Applicability of permeabilized yeast cells for the production of lactose hydrolyzed milk. 3rd International Congress on Bioprocesses in Food Industries (ICBF-2008) and 5th Convention of The Biotech Research Society at Hyderabad during November 6-8, 2008.

2. P.S. Panesar (2008) Polymerase Chain Reaction and its role in the detection of food borne pathogens. Presented at “*National Seminar on Food Safety and Quality*” organized by Department of Food Technology, G.J. University of Science and Technology, Hisar, Haryana (Abstract published)
3. N. Kumar, P.S. Panesar and R. Panesar (2008) Food Safety in the frozen food industry using failure mode and effect analysis. Presented at “*National Seminar on Food Safety and Quality*” organized by Department of Food Technology, G.J. University of Science and Technology, Hisar, Haryana (Abstract published)
4. P.S. Panesar (2009) Biotechnological approaches for the production of pre- and probiotics. Presented at “*National Seminar on Functional foods & Nutraceuticals*” organized by Department of Food Technology & Microbiology, KMV Jalandhar.
5. Reeba Panesar, P.S. Panesar, M.B. Bera and H. Kumar (2009) Microbial biosurfactants: chemistry and environmental applications. Presented at “*National Symposium on Emerging Trends in Chemical Analysis & Synthesis*” organized by Department of Chemistry, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab (Abstract published)
6. N. Kumar, P.S. Panesar and R. Panesar (2009) Application of irradiation in food processing industry. Presented at “*National Conference Advanced Materials and Radiation Physics*” organized by Department of Physics, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab (Abstract published)
7. D.C Saxena (2008) Effect of Additives on Various Characteristics and Shelf Life of Tandoori Roti International Grain Quality & Technology Congress held at Chicago, Illinois (USA), July 15-18
8. Ruchi Garg, Navdeep Jindal, Raina CS, Singh S, Singh GD, Saxena DC (2008) Effect of conditioning on drying kinetics of buckwheat seed (*Fagopyrum esculentum*) Abstract Volume: 6th International Food Convention (IFCON – 2008) held at CFTRI, Mysore (INDIA). December 15-18. P-19.
9. Singh GD, Jindal N, Singh S, Saxena DC (2008) Process standardization for extraction of starch from Indian water chestnut (*Trapa natans* L. var. bispinosa Roxburgh) Abstract Volume: 6th International Food Convention (IFCON – 2008) held at CFTRI, Mysore (INDIA). December 15-18. P-11.
10. Kumar, P. 2008. Textural properties of semi solid foods: A case study of yoghurt. In Short Term Training Program on ‘*Modern Analytical Techniques and Certification Systems in Foods in the Era of Liberalization and Globalization*’ June 09-15, 2008, SLIET, Longowal.
11. Singh, U. N. and Kumar, P. 2008. Storage studies on quality of yoghurt and probiotic yoghurt from mango - soymilk - buffalo milk blend. 6th International Food Convention on *Newer Challenges in Food Science & Technologies: Industrial Perspectives*, 15-19 December 2008, CFTRI, Mysore.

NATIONAL/INTERNATIONAL CONFERENCE/SEMINAR/WORKSHOP/SHORT TERM COURSES ATTENDED BY THE FACULTY

- Dr. Pradyuman Kumar attended a short term course on “Sensory and other related Techniques for Evaluation of Dairy foods” at NDRI, Karnal from 17.06.2008 to 07.07.2008
- Dr. P. S. Panesar

- *3rd International Congress on Bioprocesses in Food Industries (ICBF-2008)* and 5th Convention of The Biotech Research Society at Hyderabad during November 6-8, 2008.
- *“National Seminar on Food Safety and Quality”* organized by Department of Food Technology, G.J. University of Science and Technology, Hisar, Haryana.
- *“National Seminar on Functional foods & Nutraceuticals”* organized by Department of Food Technology & Microbiology, KMV Jalandhar.
- *“National Symposium on Emerging Trends in Chemical Analysis & Synthesis”* organized by Department of Chemistry, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab.
- *“National Conference Advanced Materials and Radiation Physics”* organized by Department of Physics, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab

NATIONAL/INTERNATIONAL CONFERENCE/SEMINAR/WORKSHOP/SHORT TERM COURSES CONDUCTED BY THE DEPARTMENT

One week short term course on “*Modern Analytical Techniques and Certification Systems in Foods in the Era of Liberalization and Globalization*” June 09-15, 2008.

Brief Report

Department of Food Engineering and Technology, SLIET (Deemed to be University) Longowal, Sangrur is invariably progressing to achieve the excellence in the area of Food Engineering and Technology. It was therefore very important that the expertise acquired in the area should be disseminated. To fulfil this assigned task, a STTP (Short Term Training Programme), on “Modern Analytical Techniques and Certification System in Foods in the Era of Liberalization and Globalization” sponsored by All India Council for Technical Education (AICTE) and Indian Society of Technical Education (ISTE), was conducted for the faculty and executives during 09-15 June 2008.

Today, the knowledge even related to the minor constituents has been desired to be monitored with complete precision and has markedly been improved particularly due to application of newer techniques of identification and measurement. The quality of the foods in the competitive market along with the prime concern on safety is directing most of the industries to adopt the number of certification systems viz. HACCP, ISO etc. Having viewed this, the course was designed and provided state-of-the-art experience in the implementation of the various certification systems and the know-how of the newer techniques in foods to the participants. The course received overwhelming response from country and was being attended by senior faculty members and executives from fourteen of the states.

The compendium of the lectures was brought out to serve as a tool of immense importance to the participants of the course in their research, industrial and teaching endeavours, which was appreciated.



The inauguration session

CONSULTANCY (2008-09) : NIL

LECTURES BY VISITING EXPERTS (2008-09) : NIL

LAURELS & DISTINCTIONS (2008-09)

Dr. Panesar is selected as a member of the National level Scientific Panel on "*Genetically modified organisms and foods*" by the Food Safety and Standards Authority of India

DISTINCTIONS ACHIEVED BY STUDENTS : NIL

DOCTORAL PROGRAMMES : NIL

PH.D DEGREE AWARDED : NIL

RESEARCH DOING:

1. Mr. N. Jindal, working on "Studies on Processing and Utilization of Buckwheat (*Fygopyrum esculentum*)"
2. Mr. Gagandeep Singh, working on "Studies on Processing and Utilization of Water Chestnut (*Trapa natans*)"
3. Mr. Satish Kushwaha working on "Study on extraction of pomegranate ellagitannins, storage stability and its application"

OTHER EVENTS/ACTIVITIES OF THE DEPARTMENT

Dr Panesar is nominated as a member of the Research Advisory Board in the field of biotechnology constituted by the Bhojia Institute of Life Sciences, Distt. Solan, Himachal Pradesh

DEPARTMENT OF MECHANICAL ENGINEERING

1. Name of the Department : DEPARTMENT OF MECHANICAL ENGINEERING

2. Brief introduction :

One of the basic and largest departments of the Institute, the department of Mechanical Engineering offers one M.E. course, two B.E. courses, four Diploma courses and five Certificate courses, covering various areas of Mechanical Engineering. *NBA has accredited the degree programmes.* Entry to all these programmes is through a national level entrance test (SET). The department has well equipped laboratories with state of the art equipment, instrumentation and software. Four non-formal courses under the scheme of community development plan are also running in the department.

A SLIET Mechanical Engineering Society (SMES) exists in the Department. The students of all the courses run by the department are members of this society. The Society conducts various activities like lectures, student competitions and Industrial visits at regular intervals. The department is broadly divided into three academic groups:

- Thermal Engineering
- Production Engineering & Industrial Engineering
- Design Engineering

3. Course offered :

POST GRADUATE PROGRAMME

- a. Manufacturing System Engineering

DEGREE PROGRAMMES

- a. Manufacturing Engineering
- b. Welding Technology

DIPLOMA PROGRAMMES

- a. Foundry Technology
- b. Industrial and Production Engineering
- c. Maintenance and Plant Engineering
- d. Welding Technology

CERTIFICATE PROGRAMMES

- a. Air Conditioning and Refrigeration
- b. Auto and Farm Machinery
- c. Foundry and Forging
- d. Tool and die Technology
- e. Welding Technology

4. Objectives of course offered by the department :**Aim**

The aim of the department is to advance knowledge and educate students in the area of Mechanical Engineering that will meet the needs of industry & academics and best serve the nation and the world in the 21st century. The goal of the institute is to develop synergy between industry and academia for mutual benefits.

Objectives

- To create technical manpower through flexible, modular, multi-point entry Program in Mechanical Engineering.
- To offer quality education and training in the thrust areas of Mechanical Engineering.
- To promote entrepreneurial skills for self employment.
- To provide extension services to industry, working population, pass out students, and Social organizations.
- To promote industry-institute linkage for mutual benefits.

5. Academic activities :

Expertise/Facilities available in the department:

At present, there are 32 highly motivated Regular faculty and 05 nos. Adhoc faculty members in the department, who besides their regular activities of teaching, actively involved in research and interact with industries for training and consultancy work. Faculty is actively involved in different sponsored projects funded by DST, MHRD etc. Financial assistance is also being received to carry out Rural Development Activities.

6. Laboratories :

- Advanced Welding Lab
- Non destructive Testing Lab
- Metrology Lab.
- CAD/CAM Lab.
- Simulation Lab.
- Mechatronics Lab.
- SOM Lab.
- TOM Lab.
- Thermal Engineering Lab.
- Hydraulics Lab.
- Refrigeration and Air-conditioning Lab.
- Auto-Farm Lab.
- Innovation Centre
- Industrial Engineering

7. New equipment procured

Stir casting Equipment with Acc.
Hand Tachometer
Gas Analyser

8. Research and Development

8.1 Research Projects received during the year 2008-2009

TITLE OF THE PROJECT	INVESTIGATORS	SPONSORING AGENCY	DURATION	AMOUNT IN LACS	STATUS
Automated design of die from part product model	Dr. Jatinder Madan, Dr. Sukhwinder Singh	AICTE	3 years	9.00	In progress

8.2 Research Projects completed during year 2008-2009

NIL

9 Research Publication

9.1 Research Papers Published/Books Authored (2008-2009)

S.No.	Name of the Author	Title of Paper /Publication	Name of Journal with vol.,	year and page no.
1	Singh, Shankar, Maheshwari, S. and Pandey, P.C	Effect of SiC Powder Suspended Dielectric Fluid on the Surface Finish of 6061Al/Al ₂ O ₃ P/20p Composites in Electric Discharge Machining	<i>International Journal of Machining and Machinability of Materials (IJMMM)</i> InderScience Publishers, Vol. 4, Nos. 2/3,	2008. pp. 252-274,
2	Singh, Shankar, Maheshwari, S., Pandey, P.C. and Dey, A.	Experimental Results and Analysis for Electrical Discharge Machining (EDM) of Aluminium Metal Matrix Composites with Powder-mixed Dielectric - the Lenth's Method	International Journal of Manufacturing Technology & Management (IJMTM), Inderscience, Accepted & In Press.	2009
3	J. Madan, P. V. M Rao and T. K. Kundra	"Optimal parting direction selection for die-casting	<i>International Journal of Manufacturing Technology and Management</i>	2009. Vol. 18, No. 2, pp. 167-182

4	Bishwal Debasis, Soni Sunny, Kumar Rajesh and Jena D.P.	"Application of image processing in estimation of area of heat affected zone	Journal of Metallurgy and Materials Science, 50 (4)	(2008) 219-225
5	Kulwant Singh , Pandey Sunil, K. Sahu	Chemistry of weld metal with recycled slag in submerged arc welding	IWS Journal	2008 Page no. 52-57
6	Kulwant Singh , Sunil Pandey	Recycling of slag to act as a flux in submerged arc welding	Resource, Conservation and Recycling	2009
7.	Garg Nisha, Sahni V and Jayant Arvind (2009)	Development of Quality Cost Evaluation System for Cost Reduction: A Case Study of Manufacturing Unit	Industrial engineering Journal, (IIIE), Mumbai	2009

9.2 Research Paper Presented in National/International Conferences/Seminars/Workshops/Short term courses

S.No.	Name of the Author	Title of Paper /Publication	Name of Conference/seminar Journal with vol.,	year and page no.	National/ International
1	Pandey, A., Singh, Shankar and Goyal, S.	Current Research Trends in Rotary Disk Electrode Electrical Discharge Machining (RDE-EDM) –An Overview (Paper # 163),	Proceedings, <i>International Conference on Recent Trends in Materials and Mechanical Engineering (ICMME 2008)</i> , 18-20 December 2008, at Dr. Mahalingam College of Engineering and Technology, Pollachi- 642 003, Tamil Nadu	2008, pp. 171-177.	International
2	Singh, Shankar , Ming-Feng Yeh and Goyal, S.,	Determination of Optimal Parameter Settings for Multi-Performance Characteristics in Drilling of Aluminium	Proceedings, <i>2nd International and 23rd AIMTDR Conference</i> , December 15-17, 2008, organized by Mechanical Engg. Deptt., IIT Madras, Vol. 2,	2008, pp.885-891.	International

		Matrix Composites (AMCs) by using Grey Relational Analysis' (Paper Ref.#223)			
3	Goyal,, S. , Singh, Shankar and Pandey, A.	An Investigation on the Current Challenges for Advanced Materials in Wire Electric Discharge Machining (Wire-EDM)' (paper # PR09),	Proceedings, <i>International Conference on Advances in Mechanical Engineering (AME-2008)</i> , December 15-17, 2008, S.V. National Institute of Technology, Surat, India,	2008, pp. 690-694.	International
4	Pardeep Gupta, Arvind Jayant and Atul Goyal	Availability Analysis of Rubber Preparation System a Subsystem of a Tube Manufacturing Plant under Preemptive Resume Priority Repair", ,	International Conference on Industrial Engineering and Engineering Management ,	ISBN 978-1-4244-2630-0/08 December 8 – 11, 2008 held in Singapore	International Conference
5	J. Madan, Avtar Singh and Sunil Kumar,	"Recognition of intersecting features and identification of separable regions for design – manufacturing integration",	<i>International Conference on Digital Factories (ICDF 2008)</i> , Coimbatore Institute of Technology, Coimbatore, Aug. 11-13, 2008	2008.	International

6	Jagtar Singh, , S. K. Sharma, J. Madan	'Spatial Modeling of Biomass Management for Power generation in Punjab',	Renewable Energy Asia 2008 – An International Conference & 4 th SEE Forum Meeting, Dec. 11 – 13, 2008, IIT Delhi	2008.	International
7	J. Madan , Sudhir Patyal, Ishan Goyal	"Knowledge Based System for Computer Aided Design and Analysis of Gear Train",	National Conference on Mechanism Science and Technology: from Theory to Application , NIT, Hamirpur, November 13-14, 2008	2008.	National
8	Rajesh Kumar and Dibya Prakash Jena	"Phase determination in low carbon steel metallographic image using wavelet transform"	National Conference on Advanced Materials and Radiation Physics, SLIET Longowal,	March 9-10, 2009, (paper no. AMP-17)	National
9	Manpreet Bains and Rajesh Kumar	"Detection of missing ball in bearing using decomposition of acoustic signal"	National Conference on Advanced Materials and Radiation Physics, SLIET Longowal,	March 9-10, 2009, (paper no. AMP-18)	National
10	Manoj Kumar, Ajat Shatru Arora, Rajesh Kumar	"Non-invasive Monitoring of CTS"	National Conference on Advanced Materials and Radiation Physics, SLIET Longowal,	March 9-10, 2009, (paper no. RPP-41)	National
11	Kanwalpreet Singh , Ananad Vaz, Genevieve Dauphin-Tanguy	A Bond Graph Model for the Actuation Mechanism of Musculo-Skeletal Joints	Proceedings of the 9th Biennial ASME Conference on Engineering Systems Design and Analysis ESDA08 July 7-9, 2008, Haifa, Israel(ESDA2008-59301)	2008	International

12	Kulwant Singh , Sunil Pandey	Recycled slag consumption in submerged arc welding	IIW International Congress (IC-2008)	2008 paper no.51	Internatio nal
13	Richa Sahni, Jagtar singh , Kulwant Singh	Effect of Welding parameters on mechanical properties in friction stir welding of aluminium	International Symposium on joining of material SOJOM-2008	2008	Internatio nal
14	Gupta P., Jayant A. , Goyal A	Availability Analysis of Rubber Preparation System a sub system of a tube manufactur ing plant under Preemptive Resume Priority Repair	IEEE International Conference on Industrial Engineering and Management, IEEM-2008, to be held in Dec.08 in Singapore	2008	Internatio nal
15	A.Jayant , P.Gup ta, S.Tiwari, and A.M.Hassan (2009),	<i>Study of business Performance Improvement Using SCM: A Review</i>	National Conference Welding Technology (NCWT-09.	2009	National
16	M.Arora, R.Viz, A.Jayant , P.Gupta (2009),	<i>SCM for Performance Improvement in SMEs: A Case Study</i>	National Conference Welding Technology (NCWT-09.	2009	National
17	V.Patel, S.Kumar and Arvind Jayant (2009),	<i>Supply Chain Management in SMEs: A Review</i>	National Conference Welding Technology (NCWT-09.	2009	National
18	S.Kumar, A.Jayant , P.Gupta and	<i>Application of Analytic Hierarchy</i>	National Conference Welding Technology (NCWT-09.	2009	National

	S.K.Garg (2009),	<i>Process for Selection of Foreign Suppliers Based on Risk in a Supply Chain</i>			
19	V.Patel, S.Kumar, A.Jayant and P.Gupta (2009),	<i>A Conceptual Model for Integration of Six Sigma Methodologies to Supply Chain Management</i>	National Conference Welding Technology (NCWT-09.	2009	National
20	S.Singh, D.Singh, P.Singh and A.Jayant	<i>Design and Development of Inexpensive Robot Arm Mechanism Based on Human Arm Mechanism"</i>	National Conference Welding Technology (NCWT-09.	2009	National
21	R.Sharma, A.Kumar and A.Jayant	<i>Analysis of Mechanical Properties of Welds Made Using TIG & MIG on Mild Steels & Stainless Steels</i>	National Conference Welding Technology (NCWT-09.	2009	National

10 .National /International Conferences/Seminars/Workshop/Short term Courses attended by the faculty

S.no.	Name of the faculty	Title of Seminar/Conference/workshop/short term course	Duration/Period	Name of the organization/institution
1	Dr. Shankar Singh	Computational Aspects of Mathematics	December 22-26, 2008.	Deptt. of Mathematics, Sant longowal Institute of Engg. & Technology, Longowal.
2.	Dr. Shankar Singh	Baja SAE India 2009	January 30 th - February 1 st , 2009	Society of Automotive Engineers, India at NATRAX Facility of NATRIP, Pithampur near Indore.
3.	Manpreet Singh	Computational Aspects of Mathematics	December 22-26, 2008.	Deptt. of Mathematics, Sant longowal Institute of Engg. & Technology, Longowal.
4.	Dr. Rajesh Kumar	National Conference on Advanced Materials and Radiation Physics,	March 9-10, 2009,	SLIET Longowal,
5	Arvind Jayant	Short term Course "Research methods in Engineering	16 feb-27 feb 2009	SLIET Longowal

11. National /International Conferences/Seminars/Workshop/Short term Courses conducted by the department

S.No	Title of Conferences/Seminars/Workshop/Short term	Name of Coordinators	Duration	Period	Sponsoring agency
1.	National conference on Welding technology 2009	1. Arvind Jayant 2 Dr.Kulwant Singh	02 days	30-31 Jan 2009	IWS SMES

A BRIEF REPORT ON

NATIOAL CONFERENCE ON WELDING TECHNOLOGY

NCWT 2009 (13-14 February 2009)

Department of Mechanical Engineering, Sant Longowal of Institute of Engineering, Longowal in association with Indian Welding Society (IWS), Longowal Center has organized a two day National conference on “Welding Technology”, during February 13-14, 2009. It was 3rd welding conference in series organized by Mechanical Engineering Department. It was a conglomeration of about 100 welding and manufacturing experts at SLIET Longowal. The main objective of NCWT-09 was to promote the R & D activities in the field of welding and manufacturing technologies at all levels starting from academic institutions to manufacturing industries involved in design & development of welding machinery, equipments, electrodes and consumables used in various types of welding processes. It was the first conference of the institute, in which more than ten core manufacturing industries had been participated technically and financially supported NCWT-2009.

Inaugurating the NCWT 2009, **Chief Guest of the day Sh.Ravi Jaidka**, Executive Director, ISGEC, Yamuna Nagar released the first copy of NCWT 2009 Souvenir and Director SLIET Prof. V.Sahni received the same. In his inauguration address he said “*The Indian manufacturing sector had been witnessing a progressive growth and that the welding contributed a lot in the recent development in the industrial growth of the country coupled with the spurt in steel production augured well for the industry*”.



The inauguration session

A Brief Report on AICTE/ ISTE- Short Term Training Program on Research Methods in Engineering (February 16 – 27, 2009)

Mechanical Engineering Department of Sant Longowal Institute of Engineering and Technology Longowal, organized an AICTE/ISTE Short Term Training Programme (STTP) on Research Methods in Engineering during February 16 – 27, 2009. The purpose of the STTP was mainly to give training and advanced input to the faculty members on various research tools used for development of the new systems and improvement of the existing ones. This course was aimed to improve the analytical ability of UG, PG and research students through their teachers so that they can contribute towards development of nation. The industries also supported the STTP in big way by delivering expert lectures and providing some sponsorship to the course.

The inaugural function of STTP was presided over by Prof. V. Sahni, Director, SLIET Longowal. The keynote address was delivered by Chief guest Prof. D.S. Hira, Director, SUS College of Engg. & Tech., Tangoori. Er. Gurpremjit Singh, Director, Cybersoft & Software Solutions Pvt. Ltd., Chandigarh was the Guest of Honour of the inaugural function. The Training covered on the topics related to the Mathematical modeling and simulation – Application of random sampling

- Development of expert systems for solution of industrial problems
- Mathematical modeling through designed experiments and optimization-RSM, Taguchi and ANN approaches
- Fuzzy representation based modeling and analysis
- Modeling and simulation of dynamic systems – Bond graph approach
- Modeling and optimization- OFM, OPM, AHP and FST approach
- Advanced engineering optimization
- Data acquisition and signal processing
- Condition monitoring and fault diagnosis
- Different techniques of image processing
- Virtual instrumentation
- Application of CAD tools in analysis
- Mathworks tools for engineering research
- Rapid prototyping

Industry also participated actively in disseminating knowledge to the participants A field trip for participants of the STTP to HMT Pinjore was arranged on 21.02.2009. The HMT Pinjore manufactures various types of tractors and CNC machine tools. Participants got exposure of working of engine testing unit, exhaust gas analyzer, automatic painting unit, cutting of splines, manufacturing of different types of gears, working of various CNC machines, assembly of components, manufacturing of CNC machines and many more industrial operations. A session was arranged for Eklavya Channel and also for discussion & feed back to the course.

On the last day of the course i.e. on 27.02.2009, certificate to the participants were distributed in valedictory function. Er. A.P. Sharma, General Manager, Central Tool Room Ludhiana was

the Chief guest and Er. Alok Nigam, Joint. General Manager R & D, HMT Pinjore was Guest of honor.



The inauguration session

12. Consultancy (2008-2009) Nil

13. Lectures by visiting experts

S.No	Name of Speaker	Name of Department	Title
1	Dr.A.Manna	PEC Chandigarh	Optimization Techniques Machining of Composites

14. Laurels and distinctions (During the year 2008-2009)

S.No	Name of faculty	Award/Name published	
1.	Dr. Shankar Singh	25th Anniversary Edition of Marquis Who's Who in Science and Engineering , for the technical achievements.	2008
2.	Dr. Shankar Singh	' 2000 OUTSTANDING SCIENTISTS 2008/2009 ' for the technical achievements in the publication of International Biographical Centre, Cambridge, England.	Publication in 2009
3.	Dr. Shankar Singh	'Rastriya Gaurav Award' certificate of excellence by India International Friendship Society.	May 2009

4.	Arvind Jayant	'Rastriya Gaurav Award' certificate of excellence by India International Friendship Society	May 2009
5.	R.K. Yadav	'Rastriya Gaurav Award' certificate of excellence by India International Friendship Society	May 2009

15. Distinction achieved by students

S.No.	Name of the student	Registration number	Distinction	Name of the Department
1	Anant parkash	CAC-3052/06	2928/3600	Mechanical Engineering
2	Pranav ranjan	CAC-3053/06	2709/3600	Mechanical Engineering
3	Raghvendra partap singh	CAC-3056/06	2935/3600	Mechanical Engineering
4	Ashish partap singh	CAC-3058/06	2940/3600	Mechanical Engineering
5	Sayan mukhrjee	CAF-3152/06	2798/3600	Mechanical Engineering
6	Anuja nand Choudery	CAF-3154/06	2974/3600	Mechanical Engineering
7	Nitesh Kumar	CAF-3156/06	2847/3600	Mechanical Engineering
8	Kumar saurabh	CFF-3253/06	2912/3600	Mechanical Engineering
9	Kunal	CFF-3254/06	2806/3600	Mechanical Engineering
10	Arun Kumar	CFF-4153/06	2839/3600	Mechanical Engineering
11	Anirudh kumar	CFF-4154/06	2839/3600	Mechanical Engineering
12	Nawal Kishan	CFF-4166/06	2951/3600	Mechanical Engineering
13	Vineet sharma	CTD-3351/06	2742/3600	Mechanical Engineering
14	Ashok Kumar	CTD-3352/06	2891/3600	Mechanical Engineering
15	Prabat Kumar	CTD-3353/06	2843/3600	Mechanical Engineering
16	Priya ranjan	CTD-3354/06	2800/3600	Mechanical Engineering

17	Aditya Shekhar	CTD-3355/06	2808/3600	Mechanical Engineering
18	Amar Kumar	CTD-3356/06	2773/3600	Mechanical Engineering
19	Piyush Kumar	CWG-3251/06	2800/3600	Mechanical Engineering
20	Manish Kumar	CWG-3452/06	2903/3600	Mechanical Engineering
21	Vivek rai	CWG-3455/06	2812/3600	Mechanical Engineering
22	Niranjan Kr.	CWG-3456/06	2801/3600	Mechanical Engineering
23	Ankit kaneri	DFT-4727/06	2863/3700	Mechanical Engineering
24	Narinder Singh	DFT-5002/06	2811/3700	Mechanical Engineering
25	Lovesh seth	DFT-5009/06	3090/3700	Mechanical Engineering
26	Chandan Kumar	DFT-5026/06	2837/3700	Mechanical Engineering
27	Dheeraj Kumar	DFT-5028/06	2930/3700	Mechanical Engineering
28	Ashish chandera	DFT-5030/06	2935/3700	Mechanical Engineering
29	Prabrakan Jha	DFT-5031/06	3016/3700	Mechanical Engineering
30	Sanjay Kumar	DFT-5051/06	2813/3700	Mechanical Engineering
31	Sachin bansal	DIP-4704/06	2820/3700	Mechanical Engineering
32	Nirbah Singh	DIP-4801/06	2876/3700	Mechanical Engineering
33	Abhishek Kumar	DIP-4804/06	2783/3700	Mechanical Engineering
34	Akshay Sharma	DIP-4827/06	2892/3700	Mechanical Engineering
35	Swatanter Kumar	DIP-4828/06	2990/3700	Mechanical Engineering
36	Bibash Kumar	DIP-4851/06	2963/3700	Mechanical Engineering
37	Amandeep Kumar	DIP-4852/06	3015/3700	Mechanical Engineering
38	Bhushan Kumar	DIP-4853/06	2950/3700	Mechanical Engineering
39	Divansu Saurabh	DIP-4855/06	2918/3700	Mechanical Engineering

40	Rakesh Roshan	DIP-4856/06	2837/3700	Mechanical Engineering
41	Baljeet Singh	DMP-4902/06	2937/3700	Mechanical Engineering
42	Harish Chander	DMP-4926/06	2927/3700	Mechanical Engineering
43	Amit Prem	DMP-4957/06	2793/3700	Mechanical Engineering
44	Ravinder singh	DWT-5001/06	2915/3700	Mechanical Engineering
45	Manjinder Singh	DWT-5103/06	2784/3700	Mechanical Engineering
46	Vijay Kumar	DWT-5106/06	2782/3700	Mechanical Engineering
47	Lokash Kumar	DWT-5126/06	2919/3700	Mechanical Engineering
48	Pratysh Bhasker	DWT-5128/06	2925/3700	Mechanical Engineering
49	Harpreet Singh	DWT-5129/06	3027/3700	Mechanical Engineering
50	Vivek Saga	DWT-5131/06	2794/3700	Mechanical Engineering
51	Rajeev Nandan	DWT-5133/06	2854/3700	Mechanical Engineering
52	Ashish kumar	DWT-5151/06	2900/3700	Mechanical Engineering
53	Abhish Anand	GME-1184/05	3920/5200	Mechanical Engineering
54	Pankaj Prashad	GME-1211/05	3912/5200	Mechanical Engineering

16. Doctoral program: 1.Mechanical Engineering

17. Ph.D degree Awarded: Nil

18. Research Doing

S.No	Name of Student	Title of Subject	Year of registration	Remarks
1.	Gurmeet Singh	Some studies in friction stir welding	2008-2009	Full time with institute fellowship
2.	Lakhwinder Pal Singh	Investigation and optimization of various machining parameters using cryogenically treated HSS steel	2008	SFEP

3.	Arivind jayant	Reverse logistic in supply chain Management	2008	SFEP
4.	Richa Sahni Sharma	Total Productive maintenance scheduling and control for flexible manufacturing system	2008	SFEP
5.	Sunil Kumar	Process Simulation of Process Die casting	2009	SFEP
6.	Kamaldeep singh	Optimization of cellular manufacturing system	2008	SFEP
7.	Jaswinder Singh	Utilization of agricultural waste for power generation	2008	SFEP
8	Mr. Atul Goyal	Performance improvement of manufacturing systems using RAM Engineering.	2005	SFEP
9	Mr. Vijay Kumar	Automated Design of a Die from Part Product Model.	2008	SFEP
10	Mr. Ravish Kumar Srivastva	Productivity Improvement of Industrial Production Systems and Maintenance planning.	2008	SFEP
11	R. L. Virdi,	System for Design for Manufacturability Analysis for Some Powder Metallurgy Parts	2008	SFEP
12	Kushdeep Goyal	Exchange of CAD Model Data Using Procedural Information Approach,	2008	SFEP
13	Manpreet Singh	Fault diagnosis of rotating components using Digital Signal Processing (DSP) techniques.	2008	SFEP
14	Manoj Kumar	Measurement and evaluation of occupational stress	2008	SFEP
15	Bhubnesh Bhardwaj	Mathematical modeling and selection of machining parameters for optimum surface roughness	2008	SFEP

19. Other events/ activities of the department

Faculty Advisor for the fabrication of the 'All Terrain vehicle' (ATV)

Baja SAE India 2009: Two teams ('JUNKYARD WARRIORS' and 'SLIETIAN SPARKZ') registered for **BAJA SAE (Society of Automotive Engineers) INDIA 2009** for a 3 Day BAJA SAE INDIA Student Competition that was to be held at NATRAX Facility of NATRIP, Pithampur near Indore from 30th to 1st Feb 2009, from Sant Longowal Institute of Engg. & Technology, Longowal. **Dr Shankar Singh Asstt. Prof. (ME) was the Faculty Advisory of the two teams. Baja SAE India 2009** is a collegiate competition sponsored by the Society of Automotive Engineers (SAE) India, for aspiring engineers. **There were around 158 teams**

from various engineering institutes all over India including IITs, which initially registered for the event.

- **'SLIETIAN SPARKZ'** was shortlisted for 'Virtual Baja SAE 2009 event'.
- The **'JUNKYARD WARRIORS'** (www.junkyardwarriors.com) was short-listed for participation in the **main event (one of the 58 team from all over India, and the only team in Punjab)** in the BAJA SAE India 2009 event, based on audio-conferencing, resume of faculty advisor, student's members CV, semester wise marks, discussion on their work, innovative ideas, and other factors. **There were 94 teams from all over INDIA, which participated for the audio-conferencing.** The team fabricated an **'All Terrain vehicle (ATV)'**, under the guidance of **Faculty Advisor Dr. Shankar Singh**. The goal of the team was **'to design, fabricate, and race an off-road vehicle viz. 'All Terrain Vehicle (ATV)'**, that will survive the severe punishment of rough terrain. The team inspite of its academic engagements proceeded with Prototyping, Modeling, FEA, Detailed design and finally fabrication & testing. The 'ATV' powered by an 11 horsepower engine (Engine sponsored & provided by Lombardini India Ltd.) having speed transmission of 4 front and 4 rear gears (Transmission sponsored and provided by Mahindra & Mahindra) to make it ready for trial runs **on 27-12-08. The team collected money for the fabrication from the Sponsors. No financial assistance was taken from the institute.**

The aspirations and efforts of the team were well appreciated and complemented by the **Director, SLIET & HOD (Mechanical) Prof. V. Sahni**. The **Director, SLIET, Prof. V. Sahni**, was quite pleased after the first display of the 'ATV', and applauded the efforts of the team. He showered his blessings to the team and wished them luck, for participation in the **JK Baja SAE India 2009** event. The team members were also encouraged and supported by **Dean (Academics) Prof. M.B. Bera** and **Dean (Students Welfare) Prof. Sanjay Marwaha**.

Achievements of the SLIET 'Junkyard Warriors' led by Faculty Advisor Dr.Shankar Singh in the JK Tyre Baja SAE India 2009 Event.

(A) Placement: Two of our team members got placed in Mahindra & Mahindra (M & M).

(B) Dynamic Event Awards:

- I. **Maneuverability Award** (sponsored by SAE INDIA): SLIET 'ATV' scored 100/100 and bagged a prize money of Rupees 1 lac.
- II. **Durability award** (sponsored by M&M): SLIET 'ATV' scored 400/400 and bagged prize money of Rupees 1.5 lac.

(C) Overall Award Winner:

First place (sponsored by ITW Chemins, Hyd.): SLIET 'ATV' scored 845/1000 and bagged a prize money of Rupees 5 lac.

The organizers have given the prize money of Rs. 31, 250/- each to the team members of 'Junkyard Warriors'



'All Terrain Vehicle (ATV)



Our team 'The Overall Winner' with Narain Kartikeyan



The Awards and Certificate of merits

DEPARTMENT OF EDP & HUMANITIES

ABOUT THE DEPARTMENT

The Department of Humanities & Entrepreneurship Development Programme plays a unique and distinctive role in an institute where the ethos of science and technology prevails. Keeping in view the present scenario of competitiveness, where Industry/Academia needs techno managerial professionals, the department is striving hard to promote:

- Self-employment among the students through entrepreneurial activities.
- Communication skills of the students.
- Managerial skills of the students.
- Liaison between the Institute & Industry.

OBJECTIVES OF THE DEPARTMENT

- Developing Communication skills of the students.
- Inculcating Managerial skills among the students.
- Development of Entrepreneurial attitude and skill development in the students.
- Liaison between the Institute and the Industry.
- To trained the students with a special emphasis to manage real life situations.
- Personality Development of the students.
- Special emphasis on building self confidence and encasing on emerging opportunities.

COURSES OFFERED

The Department is offering courses in English and Management for all students of Certificate, Diploma and Degree. The courses are designed with a special emphasis that the students are expected to manage real life situations. The focus is on:

- MBA
- Personality Development
- Acquisition of written and spoken skills in English
- Technical Writing
- Documentation and Presentation
- Promotion of Entrepreneurial Culture
- Understanding Human and Industrial relations
- Inculcation of Human Values etc

ACADEMIC ACTIVITIES

Personality Development Workshop was organized under the EMD Project. Entrepreneurship Awareness Camp was organized under the EMD Project for the Students. Experts from industries and financial Institutions were invited.

LABORATORIES

Communication Laboratory

RESEARCH & DEVELOPMENT

- i) Research Projects received during the year 2008-09 NIL
- ii) Research Projected completed during the year 2008-09. NIL

RESEARCH PAPERS PRESENTED IN NATIONAL/INTERNATIONAL CONFERENCES : NIL

NATIONAL/INTERNATIONAL CONFERENCE/ SEMINAR/ WORKSHOP/ SHORT TERM COURSES ATTENDED BY THE FACULTY

S.N.	Name of the faculty	Title of Seminar/ Conference / Workshop/ Short term course	Duration Period	Name of the organization/ Instt
1	Sh.Sanjeev Bansal Sh.Mandeep Ghai	Human Values and Vision in Technical Education in New Millennium	October 3-4, 2008	Desh Bhagat Institute of Management and Comp. Science, Gobindgarh
2	P.K.Dhiman	Human Values and Vision in Technical Education in New Millennium	October 3-4, 2008	Desh Bhagat Institute of Management and Comp. Science, Gobindgarh
3	Dr.Parveen kaur	Human Values and Vision in Technical Education in New Millennium	October 3-4, 2008	Desh Bhagat Institute of Management and Comp. Science, Gobindgarh

CONSULTANCY : NIL

LECTURES BY VISITING EXPERTS : NIL

LAURELS & DISTINCTIONS(DURING THE YEAR : NIL

DISTINCTIONS ACHIEVED BY STUDENTS : NIL

DOCTORAL PROGRAMMES : NIL

PH.D DEGREE AWARDED : NIL

CHIEF/OTHER EVENTS/ACTIVITIES OF THE DEPARTMENT

- i) Various activities for the upliftment of students and teachers were organized at various places such as Malerkotla, dhuri, Ludhiana etc.
- ii) For the students of SLIET, various Personality development programmes were organized.

DEPARTMENT OF MATHEMATICS

BRIEF INTRODUCTION

Mathematics is the backbone of engineering. Major objective of the department is that every student becomes familiar with mathematical thinking. He should be able to recognize the guiding principles and ideas 'behind the scenes'. The students must get the impression that Mathematics is a science of practical importance. The content and character of Mathematics needed in applications keep on changing with time. Therefore courses have been planned according to the frequency of occurrence in practical applications. For instance topics like, Matrices, Complex Analysis, Differential Equations, Statistics and Real Analysis remain indispensable. Study of Numerical Analysis is essential in technological applications due to invent of high-speed digital computers. Now a day's optimization is a key word for an engineer, therefore the department also offers a course on Operations Research.

COURSE OFFERED

(i) Certificate Programme

- (i) AM-1101 (Applied Mathematics-1)
- (ii) AM-1201 (Applied Mathematics - II)

(ii) Diploma Programme

AM-3101(Applied Mathematics)

(iii) Degree Programme

- (i) AM-5101 (Engineering Mathematics - I)
- (ii) AM-5201 (Engineering Mathematics - II)
- (iii) AM-6101/6201 (Numerical Analysis)
- (iv) AM-6151/6251 (Numerical Methods Lab)

Optional Courses

- (i) OP - Advanced Mathematics
- (ii) OP - Statistical & Optimization Technique
- (iii) OP -Fourier and wavelet methods
- (iv) OP - Industrial Mathematics

Post Graduation Programme

- (i) AM-8201 (Statistics and Numerical Methods) for Chem. Tech.

OBJECTIVE OF COURSES OFFERED BY THE DEPARTMENT

Indeed the deep study of engineering problems is the translation of these in the terms of mathematics. Besides we cover basic Mathematics which is a necessity of Engineering

courses, Department offers optional courses of special nature also. Departmental proposals are on the way to offer more specialized and specific Mathematics courses. All these courses are to inculcate the numerous mathematical logics and techniques, which helps the students to develop their analytical ability & reasoning power.

ACADEMIC ACTIVITIES

Besides the regular teachings, the discussion holds among the faculty members on various aspects of Mathematics and its applications. To strengthen the department, scientific gatherings, workshops and seminars were organized and are being proposed.

LABORATORIES

To cater the needs of research and calculations a high profiled Numerical Methods & Computational Laboratory is set in the department.

RESEARCH & DEVELOPMENT: NIL

RESEARCH PUBLICATIONS

(i) Research Paper Published/books authored

Sr. No	Name of the Author	Title of Paper /Publication	Name of Journal with volume, year and Page.
1	H.L. Vasudeva and Mandeep Singh	Weighted Power Means of Operators	Rend. Sem. Mat. Univ. Pol. Torino-Vol.66, 2 (2008).
2	Sukhwinder Singh, Sushma Gupta and Sukhjot Singh	On a bounded subclass of certain analytic functions satisfying a differential inequality	Journal of Mathematical Inequalities, Vol.2, No.1, 27-36, (2008).
3	Sushma Gupta, Sukhjot Singh and Sukhwinder Singh	A criterion of φ - like functions	General Mathematics Vol.15, No.4,2007, pp. 121-130.
4.	Sukhwinder Singh, Sushma Gupta and Sukhjot Singh	On a Class of Multivalent Functions Defined by Multiplier Transformation	Matematiski Vesnik Vol.60, No.2, (2008) pp.87-94,
5	V.Kanwar, Sukhjot Singh and S.Bakshi	Simple geometric constructions of quadratically and cubically convergent iterative functions to solve nonlinear equations	Numer Algor, Vol 47 (2008), 95-107

6	J.R.Sharma and R.K.Guha	A family of modified Ostrowski methods with accelerated sixth order convergence,	Applied Mathematics and Computation , 190, pp.111-115,2007.
7	J.R.Sharma	A family of third order methods to solve nonlinear equations by quadratic curves approximation	Applied Mathematics and Computation,184, pp. 210-215, 2007.
8	J.R.Sharma	A one-parameter family of second order iteration methods	Applied Mathematics and Computation, 186, pp. 1402-1406, 2007.
9	J.R.Sharma	A family of Newton-like methods based on an exponential model	International Journal of Computer Mathematics, 84, pp. 297-304, 2007
10	J.R.Sharma	A family of improved Jarratt multipoint methods	International Journal of Computer Mathematics, 84, pp. 1027-1034, 2007.
11	Arora S, Dhaliwal SS and Kukreja VK	Mathematical modelling of the washing zone of an industrial rotary vacuum washer	Indian J. of Chemical Tech., Vol 15, pp 332-340, July 2008.
12	Arora S, Dhaliwal SS and Kukreja VK	Computationally efficient technique for weight functions and effect of orthogonal polynomials on the average	Applied Mathematics and Computation, Vol 186, pp 623-631, 2007.

RESEARCH PAPER PRESENTED IN NATIONAL/INTERNATIONAL CONFERENCE/ SEMINARS/ WORKSHOPS/ SHORT TERM COURSES

Sr. No	Name of the Author	Title of Paper /Publication	Name of Conference/Seminars Journal with volume, Year & Page No.	National/International
1	Mishra R.K. & Amritbir Singh	Variable Cosmology	Dark Energy and Dark Matter CARL & NPL-08 Lyon France, Vol. 08	International

NATIONAL/INTERNATIONAL CONFERENCE/ SEMINARS/WORKSHOP/ SHORT TERM COURSES ATTENDED BY THE FACULTY

Sr. No	Name of the Faculty	Title with Seminar/conference/ Workshop/Short term Course Paper /Publication	Duration Period	Name of the Organization/ Instt.
1	Dr. V.K.Kukreja	International Congress of Industrial & Applied Mathematics	July 16-20, 2007.	Swiss Mathematical Union, Zurich, Switzerland
2	Dr. R.K. Mishra	International Conference on Dark Energy and Dark Matter	July 05-11, 2008	Observatoire de Lyon, University Claude Bernard-Lyon France

NATIONAL/INTERNATIONAL CONFERENCE/ SEMINARS/WORKSHOP/ SHORT TERM COURSES CONDUCTED BY THE DEPARTMENT – NIL

CONSULTANCY – NIL

LECTURERS BY VISITING EXPERT- NIL

LAURELS & DISTINCTIONS- NIL

DISTINCTIONS ACHIEVED BY STUDENTS – NIL

DOCTORAL PROGRAMMES - NIL

PH.D. DEGREE AWARDED

Name of the Investigator/ candidate	Name of Guide	Title of the Thesis
Ms. Shelly Arora	Dr. V.K.Kukreja Dr. S.S. Dhaliwal	Solution of Partial Differential Equations Involving Diffusion Dispersion Phenomenon Using weighted Residual Method

RESEARCH DOING/PH.D

Sr. No	Name of Candidates	Title of Subjects/ thesis	Year of Registration	Remarks(Worked at College/QIP Centre)
1.	Amritbir Singh	Investigation of Certain Cosmological Models with variable Cosmological and Gravitational Constant along with study of Dark matter and Dark energy	PTU-2005	-

2.	Arunesh Pandey	General Theory of Relativity, Cosmology	SLIET 2007	
3.	Sukhwinder Singh	Some Differential Inequalities/ Subordinations and Their Applications to Univalent and Multivalent Functions.	SLIET 2007	
4.	Shikha Bhatnagar	Functions involving matrices and related inequalities.	SLIET 2007	
5	Rajni Sharma	Iterative Methods for the solution of Non Linear equations	SLIET 2007	
6	Sanjeev Bakshi	Development and analysis of some new iterative methods for numerical solutions of non-linear equations and ordinary differential equations	SLIET 2008	

DEPARTMENT OF PHYSICS

BRIEF INTRODUCTION

The aim of the department is to provide quality education to the youngsters so that they can contribute in the development of the nation. The department has an international research reputation, with a many research contacts across the globe. Research in our department is traditionally organized within the general areas of Condensed Matter, plasma, Nuclear and Radiation Physics.

The department has four well equipped laboratories for Certificate, diploma and Degree students. In addition there are two R & D laboratories, where Ph.D. and M.Phil. students do research.

COURSES OFFERED

Applied Physics (I & II) courses (Theory and Practical) for all certificate classes in the 1st and 2nd semester respectively.

Applied Physics courses (Theory and Practical) for Diploma (promote) students for all classes (except computer) in the 1st semester.

Modern Physics course (Theory and Practical) for Degree students (for GCS, GEC,GIN trades in 1st semester and for GME,GWT,GCT and GFT trades in 2nd semester)

Materials Science course (Theory and Practical) for Degree students (for GCS, GEC,GIN trades in 3rd semester and for GME,GWT,GCT and GFT trades in 4th semester)

OBJECTIVE OF COURSES OFFERED BY THE DEPARTMENT

To impart quality education in applied physics and Materials Science to the students at Degree level.

To strengthen the skills in basic measurements by exposing the students to well equipped labs and enhance the problem solving ability through interactive tutorial classes.

ACADEMIC ACTIVITIES

Faculty members and supporting staff are always putting their best efforts to impart quality education to students of institute.

Participation of faculty members in seminars/ workshops/ conferences.

Popularization of Science through scientific writings.

Faculty is ready to offer elective courses (other than the compulsory courses) to degree students.

LABORATORIES

The department is having well- maintained and modern laboratories (Certificate Lab, Diploma lab, Modern physics lab, Materials Science Lab) for student's demonstration. Besides teaching, faculty members are also involved in research activities in some of the challenging areas of Physics. Laboratories for research activities the field of Atomic Physics, Materials Science, Plasma Physics etc. are being set up. Instruments such as LCR meter, thin film coating unit with electron beam gun, Microwave setup gamma-ray spectrometer, X-PIPS Si (Li) detector GM counter, Ultra sonic flow, detector and laser kit etc. are available in the department.

NEW EQUIPMENTS PROCURED DURING 2008-2009

1. Michelson Interferometer exp. & Thomson method app.
2. e/m by Milliken's oil drop method
3. Function Generator, Sextant, Polarizers, Electronic analytical balance, Oscilloscope traveling microscope.
4. Resistivity of Semiconductor by four probe method apparatus, Model-DFP03
5. Inclined plane
6. e/m ratio measurement setup CRT, long solenoid
7. Boltzman constant kit
8. Curie temp. kit for ferromagnetic materials
9. Multi-frequency ultrasonic interferometer
10. Composite piezo-electric oscillator
11. Hall effect exp. Kit
12. Lattice dynamic kit
13. Heat capacity kit
14. Capacitance permittivity kit
15. Universal B-H curve tracer
16. Ic probe with holder for B-H curve app.

RESEARCH & DEVELOPMENT

Faculty members are actively involved in research activities and are in the process of guiding a number of students for their M.Phil and Ph.D. degrees.

Faculty members are in the process of setting up their advance research facilities in the department.

RESEARCH PROJECTS RECEIVED DURING THE YEAR: NIL

RESEARCH PROJECTS COMPLETED DURING THE YEAR: NIL

RESEARCH PUBLICATION

RESEARCH PAPERS PUBLISHED/BOOKS AUTHORED (2008-2009)

- i. M.M.Sinha and Anupamdeep Sharma " Study of Vibrational modes in superionic Lithium oxide" Computational Material Science 43, 1000 (2008).
- ii. M.M.Sinha and Anupamdeep Sharma "Phonon properties of protonic conductor SrZrO_3 in cubic phase" Physica B 404, 1187 (2009)
- iii. "Thick target bremsstrahlung spectra produced by 204-Tl beta particles in the photon energy region of 10- 30 Mev.," Tejinder Singh, K.S.Khalon and A.S.Dhaliwal, J. Phys, B: At. Mol. Opt. Phys. 41(2008) 235001
- iv. "Total bremsstrahlung spectral photon distributions in metallic targets in the photon energy rang of 5-10 Kev by 204 – Tl beta palticles" Tejinder Singh, K.S.Khalon and A.S.Dhaliwal, Nucl. Inst. And Methods in Phys. Pes. B267(2009) 737

RESEARCH PAPERS PRESENTED IN NATIONAL/INTERNATIONAL CONFERENCE/ SEMINARS/ WORKSHOPS/ SHORT TERM COURSES

- i. M.M.Sinha, "Phonon properties of intermetallic compound AuIn_2 " proceedings of National conference on recent advances in innovative materials, pp.216 (2008)
- ii. KSMann, KS Kahlon and A.S.dhaliwal, " Measurement of complex permittivity of SLIET-soil saturated with water in X-Band region" Proceeding of Nat. Conf. on Communication & Networking (NCCN-08)SLIET Longowal
- iii. KSMann, KS Kahlon and A.S.dhaliwal, " Measurement of complex permittivity of SLIET-soil saturated with water in X-Band region" Proceeding of Nat. Conf. on Communication & Networking (NCCN-08)SLIET Longowal
- iv. M.M.Sinha and Anupamdeep Sharma, "Specific heat of cubic phase of protonic conductor SrZrO_3 " National conference on Advanced Materials and Radiation Physics (AMRP-09) 2009.
- v. Harleen Kaur, Ruby and M. M. Sinha, " Study of phonons in CaSiO_3 perovskite at lower mantle pressure" National conference on Advanced Materials and Radiation Physics (AMRP-09) 2009.
- vi. S. S. Ghumman, "Electron capture decay after-affects and environmental changes in some barium compounds with ^{133}Ba nuclear probe", National conference on Advanced Materials and Radiation Physics (AMRP-09) 2009.
- vii. Manoj Kumar Gupta, B. S. Sidhu, K. S. Kahlon and A. S. Dhaliwal, "Study of CK Enhancement Factors for oxygen induced L subshell x-rays in Lanthanum series ($58 \leq Z \leq 70$)" National conference on Advanced Materials and Radiation Physics (AMRP-09) 2009.
- viii. Vijay Kumar, R.G. Sonkawade and A S Dhaliwal, " Study of neutron induced modification on optical band gap of Cr-39 polymeric detector, National conference on Advanced Materials and Radiation Physics (AMRP-09) 2009.
- ix. B.S. Sidhu, M. K Gupta, K S Kahlon, K S Mann and A S Dhaliwal, "Energy, charge and Z dependence of carbon (i.e. C^{+q} where $q=1, 2, 3$) projectile induced L Sub shell X-ray intensity ratios in Au, Ti, Bi, Th and U elements" National conference on Advanced Materials and Radiation Physics (AMRP-09) 2009.
- x. Tajinder Singh, K.S. Kahlon and A. S. Dhaliwal, " Total Bremsstrahlung Cross-sections for Al, Ti, Sn and Pb at Incident Electron Energy of 10 keV, 50 keV and 100 keV" National conference on Advanced Materials and Radiation Physics (AMRP-09) 2009.

- xi. Jaspal Singh, Vinod Kumar and S S Verma," Performance comparison of some common thermocouples for the waste heat utilization", National conference on Advanced Materials and Radiation Physics (AMRP-09) 2009.
- xii. Jaspal Singh and S.S. Verma," Effect of magnetic and electric field dynamics on copper-iron thermocouple performance", National conference on Advanced Materials and Radiation Physics (AMRP-09) 2009.

NATIONAL / INTERNATIONAL CONFERENCES/ SEMINARS/ WORKSHOPS/ SHORT-TERM COURSES ATTENDED BY THE FACULTY

Dr. M.M.Sinha attended national conference on Recent Advances in innovative Materials, held during 16-17 Feb. 2008 at N.I.T.Hamirpur.

Dr. M.M.Sinha attended national conference on Advance materials and radiation Physics (AMRP-09) held during 09-10 March 2009 at SLIET, Longowal

KSMann, KS Kahlon and A.S.dhaliwal, " Measurement of complex permittivity of SLIET-soil saturated with water in X-Band region" Proceeding of Nat. Conf. on Communication & Networking (NCCN-08)SLIET Longowal

Dr. K.S.Kahlon, Dr.K.S. Mann, Dr. S.S. Ghuman, Dr.S.S.verma have attended National conference on Advance materials and radiation Physics (AMRP-09) held during 09-10 March 2009 at SLIET, Longowal

NATIONAL / INTERNATIONAL CONFERENCES/ SEMINARS/ WORKSHOPS/ SHORT-TERM COURSES CONDUCTED BY THE DEPARTMENT

The department has organized a National Conference on Advanced Materials and Radiation Physics (AMRP-09) during 09-10 March 2009 at SLIET, Longowal under chairmanship of Dr. A.S.Dhaliwal

CONSULTANCY: NIL

LECTURES BY VISITING FACULTY:

1. Prof. R.N.P. Choudhary, Department of Physics and Meteorology Indian Institute of Technology, Kharagpur – 721302, "Advanced Materials: Current Status and Future Prospects"
2. Prof. S. Mollah, Department of Physics, Aligarh Muslim University, Aligarh-202002, "Laser synthesis of iron oxide nanowires"
3. Prof. K.K. Raina Materials Research laboratory, School of Physics and Materials Science, Thapar University, Patiala –147004, "Investigations on topological defects and various phases of soft matter and their uses as nano-template"
4. Prof. S.K.Chakarvarti, Department of Physics, National Institute of Technology (Institution of National Importance), Kurukshetra-136119," Radiation- Crafted Polymeric Membranes and Their Application in Nano-/microtechnology"
5. Prof. Bhajan Singh, Physics Department, Punjabi University, Patiala-147002," The role of Compton scattering for non-destructive testing of materials"

6. Prof. Hardev Singh Virk, DAV Institute of Engineering & Technology, Kabir Nagar, Jalandhar-144008, "Quantum Dots and Nanowires: Fabrication and Industrial Applications"
7. Dr. Ravi Kumar, Materials Science Division, Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi-110067, "Role of swift heavy ion irradiation in synthesization and engineering the properties of functional oxide materials".
8. Dr. T. Nandi, Materials Science Division, Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi-110067, "Surface-stopping power: its concept, measurement and implication".

LAURELS & DISTINCTIONS

Faculty members are on roll as member senate, board of study, referee of reputed national and international journals, paper setters, practical examiners, invited speakers and on the panels of experts to various educational institutions of the region.

DISTINCTION ACHIEVED BY STUDENTS

So far department is playing a role of a supportive department and in near future it is planning to offer M.Sc. courses then students will be in direct enrollment with the department and then it can highlight the achievements of the students for its own records.

DOCTORAL PROGRAMMES:

Department is able to offer doctoral programmes in the following fields in particular Atomic/ Nuclear Physics, Radiation Physics, Solid state Physics, Materials Science, Plasma Physics and energies studies etc.

PH.D. DEGREE AWARDED

All the faculty members are Ph.D.holders before joining the institute.

RESEARCH DOING

Six students are registered for Ph.D degree under the guidance of Dr. A.S.Dhaliwal, Dr. K.S.Kahlon, Dr. M.M.Sinha and Dr. S.S.Verma

SCHEME FOR PERSONS WITH DISABILITIES

OBJECTIVES OF PWD SCHEME

Sant Longowal Institute of Engineering & Technology introduced the scheme for “Integrating Persons with Disabilities in the Mainstream of Technical and Vocational Education” under auspices of the Government of India from 2001-02. It seeks to promote education and training of persons with disabilities by integrating them into the mainstream of technical and vocational education by offering skill development Programmes through formal and non-formal Programmes. It aims at sensitizing administrations, planners, faculty, staff and students and community at large about the problems and capabilities of the students with disabilities and creating suitable environment in the Institutions. It also seeks to provide guidance and counseling and placement services to youth with disabilities for wage and self employment opportunities.

PATTERN OF COURSES OFFERED

Under the Persons with Disabilities Scheme, both formal as well as non-formal programmes are run in the Institute. In the formal stream, Certificate and Diploma Courses are offered along with regular programmes of the Institute while in the non formal stream, short term training programmes of six months duration are offered in various fields.

Formal Programme: Certificate Courses Offered	Formal Programme: Diploma Courses Offered
Air Conditioning and Refrigeration Auto and Farm Machinery Computer Applications Foundry & Forging Food Technology Paper and Printing Technology Servicing and Maintenance of Electronics instruments Servicing and Maintenance of Medical Instruments Tool and Die Technology Welding Technology	Chemical Technology Food Technology Computer Science & Applications Computer Science & Engineering Electronics & Communication Engineering Instrumentation & Process Control Industrial & Production Engineering Maintenance & Plant Engineering Welding Technology Foundry Technology

STREAMS UNDER NON FORMAL PROGRAMME

Data Entry Operator	Plumbing
Electrical Gadgets Repair	Mobile Repairing
Caropentry/ Masonry	Radio & TV Repair
Silk Screen Printing	Candle Making
Cutting and Tailoring	Office Management
Food Processing	Telephone Operator/ Repairing
Book Binding	

ACHIEVEMENTS IN 2008-09

During 2008-09, under the Formal Stream 25 Students were admitted. As far as Non formal Stream is concerned, 107 students were trained.

ANNUAL ACCOUNTS

The Annual Accounts of the Institute for the year 2008-09 prepared by the Institute have been audited by the Accountant General, Punjab, to whom the audit of accounts works has been entrusted with approval of Government of India. The information about accounts of the SLIET for the year 2008-09 is given below :-

01. Consolidated Balance Sheet
02. Consolidated Income & Expenditure A/C
03. Consolidated Receipt & Payment A/C
04. Balance Sheet (G.I.A Account)
05. Income & Expenditure A/C (G.I.A Account)
06. Receipt & Payment A/C (G.I.A Account)
07. Statement of Accounts of S.W.f, I.D.F. & C.D.F
08. Statement of Accounts of SET Account
09. Audit Report and Audit Certificate

**SANT LONGOWAL INSTITUTE OF
ENGINEERING & TECHNOLOGY
LONGOWAL, DISTT. SANGRUR
(PUNJAB) 148 001
(DEEMED-TO-BE-UNIVERSITY)**


**CONSOLIDATED BALANCE
SHEET AS ON 31.03.2009**

**SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY,
LONGOWAL, DISST SANGRUR (PUNJAB) 148106
(Deemed-to-be-University)**

CONSOLIDATED BALANCE SHEET AS ON 31.03.2009


	<u>Schedule</u>	<u>Current Year</u>	<u>Previous Year</u>
<u>LIABILITIES</u>			
Corpus/Capital Fund	"20"	1288036826.25	1086555423.37
Reserve and Surplus	"21"	112001839.00	99286270.00
Earmarked/Endowments Funds	"22"	134354668.00	113223167.00
Unsecured Loans & Borrowings	"23"	0.00	-
Current Liabilities & Provisions	"24"	75822250.36	41208116.86
GRAND TOTAL		1610215583.61	1340272977.23
<u>ASSETS</u>			
Fixed Assets	"25"	941878106.50	919616677.59
Investment from Earmarked/Endowment Funds	"26"	261540805.00	220914656.00
Current Assets, Loan & Advances	"27"	406796672.11	199741643.64
		1610215583.61	1340272977.23

For G.K.Garg & Associates
Chartered Accountants


(Sanjay Gupta)
jr. Accountant


(Jawala Singh)
Accountant


(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)


(Dr. Varinder Sahni)
Director Incharge

Gurinder K. Garg (FCA)
(Partner)

**SANT LONGOWAL INSTITUTE OF
ENGINEERING & TECHNOLOGY
LONGOWAL, DISTT. SANGRUR
(PUNJAB) 148 001
(DEEMED-TO-BE-UNIVERSITY)**

**CONSOLIDATED INCOME
AND EXPENDITURE
ACCOUNT FOR THE
FINANCIAL YEAR ENDED
31.03.2009**

**SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY,
LONGOWAL, DISST SANGRUR (PUNJAB) 148106
(Deemed-to-be-University)**

**CONSOLIDATED INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED 31.03.09**

	<u>Schedule</u>	<u>Current Year</u>	<u>Previous Year</u>
<u>INCOME</u>			
<u>Grant Received :</u>			
Grant In Aid, General (Recurring)		139100000.00	88800000.00
Grant - in-aid Non Plan (OBC)		1950000.00	-
<u>Interest Received :</u>			
a) On Bank Deposits (FDR and Saving A/Cs)			
540 Main (Grant in Aid A/c)	10723687.00		6221430.00
Sliet Entrance Test	232872.00		-
Student Welfare Fund (SWF)	10244953.00		1766057.00
Chief Warden boys hostel	110913.00		-
Poor aid Fund for Needy Student (Sliet)	49459.00		-
Devi Deepak Memorial a/c (Sliet)	7790.00		-
Sliet Model School (SMS)	49559.00		-
Girl Hostel 1 & 2	59977.00		-
		21479210.00	7987487.00
b) Projects Accounts (2146)		100865.00	92008.00
Other Income	"28"	76168526.02	72307563.95
TOTAL		238798601.02	169187058.95
<u>EXPENDITURE</u>			
Establishment Expenses	"29"	124663686.00	86152767.00
Administrative Expenses	"30"	61320583.78	47848836.00
Consumable in Departments/Labs	"12"	4846801.02	3001258.48
Excess of Income over Expenditure transferred to Corpus/Capital Fund	"20"	47967530.22	32184197.47
TOTAL		238798601.02	169187058.95

For G.K.Garg & Associates
Chartered Accountants



(Sanjay Gupta)
jr. Accountant



(Jawala Singh)
Accountant



(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)



(Dr. Varinder Sahni)
Director Incharge

Gurinder k. Garg (FCA)
(Partner)

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.09**SCHEDULE – 20 : CORPUS/CAPITAL FUNDS**

<u>Particulars</u>	<u>Schedule</u>	<u>Current Year</u>	<u>Previous Year</u>
Balance as at the beginning of the year			
540 Main (Grant in Aid A/c)	"01"	972377983.92	949017548.45
Sliet Entrance Test		4533373.55	-
Student Welfare Fund (SWF)	"01"	114177439.45	90353677.45
Chief Warden boys hostel		1422875.00	-
Poor aid Fund for Needy Student (Sliet)		283656.00	-
Devi Deepak Memorial a/c (Sliet)		141063.00	-
Sliet Model School (SMS)		1084950.00	-
Girl Hostel 1 & 2		814955.11	1039371225.90
Add : Grant - in aid, General(Non - Recurring)	"01"	83408000.00	15000000.00
Add : Grant - in - aid Plan (OBC),Non recurring	"01"	61825000.00	-
Add : Balance of Net Income/ (Expenditure) transferred from the Income & Expenditure Account			
540 Main (Grant in Aid A/c)	"01"	20482375.22	8360435.47
Sliet Entrance Test		3533188.00	-
Student Welfare Fund (SWF)	"01"	23308454.00	23823762.00
Chief Warden boys hostel		411380.00	-
Poor aid Fund for Needy Student (Sliet)		14459.00	-
Devi Deepak Memorial a/c (Sliet)		7790.00	-
Sliet Model School (SMS)		134169.00	-
Girl Hostel 1 & 2		75715.00	32184197.47
TOTAL		1288036826.25	1086555423.37

SCHEDULE – 21 : RESERVE AND SURPLUS**Special Reserves****Special Reserves**

Opening Balance	"02"	99286270.00	91381139.00
Reserve for Depreciation		0.00	0.00
Addition during the year (Interest Received)	"02"	9195812.00	7905131.00
Addition during the year (Interest Accrued)	"02"	3519757.00	0.00
TOTAL		112001839.00	99286270.00

SCHEDULE – 22 : EARMARKED/ENDOWMENTS FUNDS

Opening Balance of Funds	"03"	113223167.00	99663616.00
Contributory Provident Fund during the year	"03"	21131501.00	13559551.00
TOTAL		134354668.00	113223167.00

SCHEDULE – 23 : UNSECURED LOANS & BORROWINGS

		0.00	0.00
TOTAL		0.00	0.00

**SCHEDULE –24 : CURRENT LIABILITIES
AND PROVISIONS****CURRENT LIABILITIES**

540 Main (Grant in Aid A/c)	"05"	75143745.86	40849286.86
Sliet Entrance Test		1893.25	0.00
Student Welfare Fund (SWF)	"02"	483083.00	358830.00
Sliet Model School		101281.25	0.00
Chief Warden boys hostel		92247.00	0.00
		75822250.36	41208116.86

SCHEDULE –25 :**FIXED ASSETS**

540 Main (Grant in Aid A/c)	"06"	906269929.25	887376898.59
Sliet Entrance Test		1963992.00	-
Student Welfare Fund (SWF)	"03"	33625904.00	32239779.00
Sliet Model School		18281.25	0.00
		941878106.50	919616677.59

**SCHEDULE – 26 : INVESTMENT FROM
EARMARKED/ENDOWMENT FUNDS****With Schedule Bank**

Saving Bank A/C 5264 (Depreciation Fund A/c)	"7"	74745.00	72196.00
Saving Bank A/C 1833 (C.P. Fund)		3352800.00	3904858.00
M.M.D.C/F.D.R Account No. 1833 (C.P. Fund)		133020754.00	117723528.00
FDR Account No. 5264 (D.S Fund)		108407337.00	99214074.00
CPF Interest Accrued		16685169.00	
TOTAL		261540805.00	220914656.00

**SCHEDULE – 27 : CURRENT ASSETS,
LOANS AND ADVANCES**

540 Main (Grant in Aid A/c)	"08"	291782877.75	117445153.19
Sliet Entrance Test		6104462.80	-
Student Welfare Fund (SWF)	"04"	104343072.45	82296490.45
Chief Warden boys hostel		1926502.00	-
Poor aid Fund for Needy Student (Sliet)		298115.00	-
Devi Deepak Memorial a/c (Sliet)		148853.00	-
Sliet Model School (SMS)		1302119.00	-
Girl Hostel 1 & 2		890670.11	-
		406796672.11	199741643.64

SCHEDULE – 28: OTHER INCOME**Particulars****(A) FEES FROM STUDENTS :-**

540 Main (Grant in Aid A/c)	"09"	50027480.75	45369152.00
Sliet Entrance Test		7109036.00	0.00
Student Welfare Fund (SWF)	"05"	13565400.00	12891030.00
Chief Warden boys hostel		285812.00	0.00
Sliet Model School (SMS)		789120.00	0.00
		71776848.75	58260182.00

(B) ADMINISTRATIVE RECEIPTS

540 Main (Grant in Aid A/c)	"09"	4101343.27	3941985.95
Student Welfare Fund (SWF)	"07"	7648.00	10105396.00
Sliet Model School (SMS)		166375.00	0.00
Girl Hostel 1 & 2		25811.00	0.00
Chief Warden boys hostel		90500.00	4391677.27
			14047381.95

GRAND TOTAL (A+B)

76168526.02 72307563.95

SCHEDULE – 29 : ESTABLISHMENT EXPENSES

540 Main (Grant in Aid A/c)	"10"	124522243.00	86152767.00
Sliet Entrance Test		141443.00	0.00
		124663686.00	86152767.00

TOTAL**SCHEDULE – 30 : ADMINISTRATIVE EXPENSES**

540 Main (Grant in Aid A/c)	"11"	56151956.78	46910115.00
Sliet Entrance Test		3667277.00	0.00
Student Welfare Fund (SWF)	"08"	509547.00	938721.00
Chief Warden boys hostel		75845.00	0.00
Poor aid Fund for Needy Student (Sliet)(Financial Assistance)		35000.00	0.00
Sliet Model School (SMS)		870885.00	0.00
Girl Hostel 1 & 2		10073.00	0.00
		61320583.78	47848836.00

**SANT LONGOWAL INSTITUTE OF
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(PUNJAB) 148 001
(DEEMED-TO-BE-UNIVERSITY)**

**CONSOLIDATED RECEIPT
AND PAYMENT
ACCOUNT
FOR THE FINANCIAL
YEAR ENDED 31.03.2009**

**SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY,
LONGOWAL, DISST SANGRUR(PUNJAB) 148106
(Deemed-to-be-University)**

CONSOLIDATED RECEIPT AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31.03.2009

Sr. No.	RECEIPTS	Schedule	Current Year	Previous Year	Sr. No.	PAYMENTS	Schedule	Current Year	Previous Year
01)	Opening Cash & Bank Balances				01)	<u>Expenses :</u>			
	Cash in Hand		11943.00	3792.00					
	540 Main (Grant in Aid A/c)					Establishment	"15A"	131058323.00	86412895.00
	Bank Balances					Administrative	"16A"	58570468.50	60116073.00
	540 Main (Grant in Aid A/c)		322893985.29	283456819.19					
	Slit Entrance Test		2513296.55	7390799.00					
	Student Welfare Fund (SWF)		81753819.45	57311440.45					
	Chief Warden boys hostel		1447675.00	0.00	02)	Payments made	"17"	2213499.00	1809589.00
	Poor aid Fund for Needy					against funds for			
	Student (Slit)		283656.00	0.00					
	Devi Deepak Memorial a/c					various Projects			
	(Slit)		141063.00	0.00		alongwith detail.			
	Slit Model School (SMS)		1084950.00	0.00					
	Girl Hostel 1 & 2		804124.11	0.00					
	Smart Card Account		0.00	633107.00	03)	Payment for Consumable	"12"	2782707.00	2175451.00
02)	Received funds for various Projects alongwith detail				04)	<u>Expenditure on Fixed Assets & Capital.</u> <u>Work-in- Progress etc.</u>			
	540 Main (Grant in Aid & Interest A/c)	"17"	1380264.00	464551.00	a)	Purchase of Fixed Assets	"6A"	12284734.00	12246733.00
03)	Grant Received :				b)	Exps. on Capital, Work-in-Progress, Campus Dev, minor work (Payments made to	"6"	9827383.00	5626136.00
	From Govt. of India								
	Recurring		94100000.00	88800000.00					
	Non-Recurring		20000000.00	15000000.00					
	Grant - in - aid								
	Non Plan (OBC)/recurring		1950000.00	0.00					

Plan (OBC), Non recurring	61825000.00	0.00			
04) Interest Received:				"18A"	
On Bank Deposits					318967.00
(FDR & Savings A/Cs)					60028351.77
540 Main (Grant in Aid A/c)	12394183.00	16401546.00		"19A"	0
Slit Entrance Test	185686.00	276021.00	08)		
Student Welfare Fund (SWF)	1785450.00	1766057.00			
Chief Warden boys hostel	38836.00	0.00			
Poor aid Fund for Needy					
Student (Slit)	49459.00	0.00	09)	<u>Closing Cash & Bank Balance</u>	
Devi Deepak Memorial a/c					
(Slit)	7790.00	0.00			
Slit Model School (SMS)	49559.00	0.00			11943.00
Girl Hostel 1 & 2	32612.00	0.00			357296832.04
					322893985.29
05) Other Income					
	"13A"	76020635.02			6004275.80
					83045118.45
					1797925.00
06) Any other Receipts	"14A"	39661645.25			0.00
		35675234.70			283115.00
					0.00
					148853.00
					1302119.00
					852474.11
					0.00
					0.00
TOTAL	72041531.67	575878888.29	TOTAL	720415631.67	575878888.29

For G.K.Garg & Associates
Chartered Accountants

(Sanjay Gupta) (Jawala Singh)
jr. Accountant Accountant
(Accounts & Audit)

(Dr. Varinder Sahni)
Director Incharge

Gurinder k. Garg (FCA)
(Partner)

SCHEDULE - 6A: PURCHASE OF FIXED ASSETS

<u>Particulars</u>		<u>Current Year</u>	<u>Previous Year</u>
540 Main (Grant in Aid A/c)	"6"	10898609.00	12212203.00
Student Welfare Fund (SWF)	"3"	1386125.00	34530.00
TOTAL		12284734.00	12246733.00

SCHEDULE - 13A: OTHER INCOME

<u>Particulars</u>		<u>Current Year</u>	<u>Previous Year</u>
540 Main (Grant in Aid A/c)	"13"	54021081.02	49311137.95
Sliet Entrance Test		7109036.00	6497353.00
Student Welfare Fund (SWF)	"9"	13565400.00	12891030.00
Chief Warden boys hostel		343812.00	0.00
Sliet Model School (SMS)		955495.00	0.00
Girl Hostel 1 & 2		25811.00	0.00
TOTAL		76020635.02	68699520.95

SCHEDULE - 14A: ANY OTHER RECEIPT

540 Main (Grant in Aid A/c)	"14"	39341210.00	24484078.15
Sliet Entrance Test		54377.25	974720.55
Student Welfare Fund (SWF)	"10"	84598.00	10216436.00
Chief Warden boys hostel		98460.00	0.00
Sliet Model School (SMS)		83000.00	0.00
TOTAL		39661645.25	35675234.70

SCHEDULE – 15A : ESTABLISHMENT EXPENSES

540 Main (Grant in Aid A/c)	"15"	130916880.00	86152767.00
Sliet Entrance Test		141443.00	260128.00

TOTAL		131058323.00	86412895.00
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SCHEDULE – 16A : ADMINISTRATIVE EXPENSES

540 Main (Grant in Aid A/c)	"16"	54055383.50	46776483.00
Sliet Entrance Test		3666677.00	12365469.00
Student Welfare Fund (SWF)	"11"	509547.00	974121.00
Chief Warden boys hostel		65058.00	0.00
Poor aid Fund for Needy		35000.00	0.00
Student (Sliet)			
Sliet Model School (SMS)		228730.00	0.00
Girl Hostel 1 & 2		10073.00	0.00

TOTAL		58570468.50	60116073.00
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SCHEDULE - 18A: OTHER PAYMENT

540 Main (Grant in Aid A/c)	"18"	46944616.77	263367.00
Sliet Entrance Test		50000.00	0.00
Student Welfare Fund (SWF)		12310780.00	55600.00
Chief Warden boys hostel		65800.00	0.00
Poor aid Fund for Needy			
Student (Sliet)		15000.00	0.00
Sliet Model School (SMS)		642155.00	0.00
TOTAL		60028351.77	318967.00

SCHEDULE - 19A**LIST OF OUTSTANDING EXPENSES FOR THE YEAR 2008-09**

540 Main (Grant in Aid A/c)	"19"	7021849.00	0.00
Student Welfare Fund (SWF)		62303.00	0.00
TOTAL		7084152.00	0.00

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GRANT-IN-AID ACCOUNT

**BALANCE SHEET
AS ON 31.03.2009**


**SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY,
LONGOWAL,DISST SANGRUR(PUNJAB) 148106
(Deemed-to-be-University)**

**GRANT IN AID ACCOUNT
BALANCE SHEET AS ON 31.03.2009**

<u>LIABILITIES</u>	<u>Schedule</u>	<u>Current Year</u>	<u>Previous Year</u>
Corpus/Capital Fund	"01"	1138093359.14	972377983.92
Reserve and Surplus	"02"	112001839.00	99286270.00
Earmarked/Endowments Funds	"03"	134354668.00	113223167.00
Unsecured Loans & Borrowings	"04"	-	-
Current Liabilities & Provisions	"05"	75143745.86	40849286.86
GRAND TOTAL		1459593612.00	1225736707.78

<u>ASSETS</u>			
Fixed Assets	"06"	906269929.25	887376898.59
Investment from Earmarked/Endowment Funds	"07"	261540805.00	220914656.00
Current Assets, Loan & Advances	"08"	291782877.75	117445153.19
		1459593612.00	1225736707.78

For G.K.Garg & Associates
Chartered Accountants


(Sanjay Gupta)
jr. Accountant


(Jawala Singh)
Accountant


(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)


(Dr. Varinder Sahni)
Director Incharge

Gurinder k. Garg (FCA)
(Partner)

**SANT LONGOWAL INSTITUTE OF
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GRANT-IN-AID ACCOUNT


**INCOME AND EXPENDITURE
ACCOUNT FOR THE
FINANCIAL YEAR ENDED
31.03.2009**

**SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY,
LONGOWAL, DISST SANGRUR (PUNJAB) 148106
(Deemed-to-be-University)
GRANT IN AID ACCOUNT**

**INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED 31.03.09**

	<u>Schedule</u>	<u>Current Year</u>	<u>Previous Year</u>
<u>INCOME</u>			
<u>Grant Received :</u>			
Grant In Aid, General (Recurring)		139100000.00	88800000.00
Grant - in-aid Non Plan (OBC)		1950000.00	0.00
<u>Interest Received :</u>			
a) On Bank Deposits (FDR & Saving A/Cs)		10723687.00	6221430.00
b) Projects Accounts (2146)		100865.00	92008.00
Other Income	"9"	54128824.02	49311137.95
TOTAL		206003376.02	144424575.95
<u>EXPENDITURE</u>			
Establishment Expenses	"10"	124522243.00	86152767.00
Administrative Expenses	"11"	56151956.78	46910115.00
Consumable in Departments/Labs	"12"	4846801.02	3001258.48
Excess of Income over Expenditure transferred to Corpus/Capital Fund		20482375.22	8360435.47
TOTAL		206003376.02	144424575.95

For G.K.Garg & Associates
Chartered Accountants


(Sanjay Gupta)
jr. Accountant


(Jawala Singh)
Accountant


(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)


(Dr. Varinder Sahni)
Director Incharge

Gurinder k. Garg (FCA)
(Partner)

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.09**SCHEDULE – 01 : CORPUS/CAPITAL FUNDS**

<u>P. No.</u>	<u>Particulars</u>	<u>Current Year</u>	<u>Previous Year</u>
	Balance as at the beginning of the year	972377983.92	949017548.45
Add :	Grant - in aid,		
	General(Non - Recurring)	83408000.00	15000000.00
Add :	Grant - in - aid		
	Plan (OBC),Non recurring	61825000.00	0.00
Add :	Balance of Net Expenditure/Income		
	transferred from the Income & Expenditure Account	20482375.22	8360435.47
	TOTAL	1138093359.14	972377983.92

SCHEDULE – 02 : RESERVE AND SURPLUS**Special Reserves**

Opening Balance	99286270.00	91381139.00
Reserve for Depreciation	0.00	0.00
Addition during the year (Interest Received)	9195812.00	7905131.00
Addition during the year (Interest Accrued)	3519757.00	0.00
TOTAL	112001839.00	99286270.00

SCHEDULE – 03 : EARMARKED/ENDOWMENTS FUNDS

Opening Balance of Funds	113223167.00	99663616.00
Add :	Contributory Provident Fund during the year	21131501.00
	TOTAL	134354668.00
		113223167.00

SCHEDULE – 04 : UNSECURED LOANS & BORROWINGS

Bank Overdraft (Grant-in-Aid Account with Central Bank of India)	-	-
TOTAL	-	-

SCHEDULE -05 : CURRENT LIABILITIES AND PROVISIONS
CURRENT LIABILITIES

(A) Caution Money :

Institute / Hostel / Hostel Mess Advance	24986066.80	23013359.80
TOTAL (A)	24986066.80	23013359.80

(B) Security Deposits

Security from Contractors/suppliers/staff	4431592.89	2766539.89
Earnest Money from contractors/suppliers	1614253.00	565360.00
Retention Money (N.B.C.C)	1178620.00	1175058.00
TOTAL (B)	7224465.89	4506957.89

(C) Others

CPF Interest	14423291.00	4132759.00
Fee Refundable	3781.00	3781.00
Seminar Grant	133464.00	37500.00
G.I.S	1636.00	302750.00
Scholarship	930472.00	325277.00
National Science Day	5000.00	5000.00
Leave Salary	54540.00	0.00
Financial Assistance (Reimbursable)	72038.00	0.00
S.M.E.S. Fee	400.00	400.00
Projects Overhead Account	21685.00	21685.00
Staff Student Welfare Fund	6489728.49	6489728.49
Staff Student Welfare Fund Loan A/c	12598475.00	0.00
Research Projects (As per Schedule - "17")	1161863.68	1995098.68
Book Grant for SC/ST Students	14990.00	14990.00
Outstanding Expenses (As per Schedule -"19")	7021849.00	0.00
TOTAL (C)	42933213.17	13328969.17

GRAND TOTAL (A+B+C)	75143745.86	40849286.86
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SCHEDULE :06 FIXED ASSETS

Sr. NO	Description	GROSS BLOCK			Depreciation			NET BLOCK	
		Cost/ Valuation as of the year	Additions during the year	Deductions during the year	Cost/ Valuation at the year end	As at the Current year	As at the Previous year	end	end
01	<u>LAND:-</u>								
i)	Freehold	-							
02	<u>BUILDING :-</u>								
i)	Building A/C (Annexure-"6.1")	532894289.45	16325154.00	0.00	549219443.45	-	549219443.45	532894289.45	
ii)	Campus Development	37679033.00	181276.00	0.00	37860309.00	-	37860309.00	37679033.00	
iii)	Amenities	4116525.00	0.00	0.00	4116525.00	-	4116525.00	4116525.00	
iv)	Minor Work (Annexure-"6.2")	40383448.00	9646107.00	0.00	50029555.00	-	50029555.00	40383448.00	
v)	Other Fixed Assets(SWF)	5019577.49	0.00	0.00	5019577.49	-	5019577.49	5019577.49	
03	<u>EQUIPMENT IN DEPARTMENT/ CENTRAL FACILITIES</u>								
a)	Vehicle	2667059.64	0.00	0.00	2667059.64	-	2667059.64	2667059.64	
b)	Furniture & Fixtures	25964339.30	364784.00	0.00	26329123.30	-	26329123.30	25964339.30	
c)	Office Equipments	15862529.63	610128.00	392960.00	16079697.63	-	16079697.63	15862529.63	
d)	Hostel Equipments	3540963.21	0.00	0.00	3540963.21	-	3540963.21	3540963.21	
e)	Audio Visual Aid	1626572.70	9800.00	0.00	1636372.70	-	1636372.70	1626572.70	
f)	Sports Equipments	1388982.44	0.00	0.00	1388982.44	-	1388982.44	1388982.44	
g)	Guest House	872684.51	138580.00	0.00	1011264.51	-	1011264.51	872684.51	
h)	Dispensary	318940.22	0.00	0.00	318940.22	-	318940.22	318940.22	
i)	Horticulture	500312.03	0.00	0.00	500312.03	-	500312.03	500312.03	
j)	Cultural Activities Instruments	80697.00	0.00	0.00	80697.00	-	80697.00	80697.00	
k)	Library Books	20552825.19	1040534.00	0.00	21593359.19	-	21593359.19	20552825.19	
l)	Library Books (OBC)	0.00	817051.00	0.00	817051.00	-	817051.00	0.00	
m)	Library Equipments	224044.00	35512.00	0.00	259556.00	-	259556.00	224044.00	
n)	Electric Meter Installation	397080.00	0.00	0.00	397080.00	-	397080.00	397080.00	
o)	VSAT Internal System	1122400.00	0.00	0.00	1122400.00	-	1122400.00	1122400.00	
p)	EPBAX / Telephone	4506951.00	13675.00	0.00	4520626.00	-	4520626.00	4506951.00	
q)	Transit Accommodation	37289.00	0.00	0.00	37289.00	-	37289.00	37289.00	

Physics	6357739.97	662525.00	0.00	7020264.97	-	7020264.97	6357739.97
r) Physics OBC	0.00	326319.00	0.00	326319.00	-	326319.00	
s) Chemistry	4097581.01	243140.00	0.00	4340721.01	-	4340721.01	4097581.01
t) Computer	37106531.05	168677.00	0.00	37275208.05	-	37275208.05	37106531.05
u) WorkShop (Machinery and Tools)	14445739.59	508169.00	0.00	14953908.59	-	14953908.59	14445739.59
v) Mechanical Engineering	13025128.47	1193642.00	1440001.34	12778769.13	-	12778769.13	13025128.47
w) Electronics	15195528.52	661992.00	0.00	15857520.52	-	15857520.52	15195528.52
x) Electrical	1525400.50	1247373.00	0.00	2772773.50	-	2772773.50	1525400.50
y) Building Maint Lab Equip.	84751.00	0.00	0.00	84751.00	-	84751.00	84751.00
z) Computer Networking	11471819.00	0.00	0.00	11471819.00	-	11471819.00	11471819.00
aa) Instrumentation Lab	10688233.16	0.00	0.00	10688233.16	-	10688233.16	10688233.16
ab) Material Science Lab	158998.58	0.00	0.00	158998.58	-	158998.58	158998.58
ac) Food Technology	13656141.60	564097.00	0.00	14220238.60	-	14220238.60	13656141.60
ad) Chemical Technology	10154670.27	2800.00	0.00	10157470.27	-	10157470.27	10154670.27
ae) Mathematics	2425283.80	99096.00	0.00	2524379.80	-	2524379.80	2425283.80
af) E.D.P	1462037.70	145380.00	0.00	1607417.70	-	1607417.70	1462037.70
ag) SLIET Model School	66271.90	0.00	0.00	66271.90	-	66271.90	66271.90
ah) Food N/C MEF Project	5000155.00	0.00	0.00	5000155.00	-	5000155.00	5000155.00
ai) Information Technology	2151122.00	0.00	0.00	2151122.00	-	2151122.00	2151122.00
04 Training & Placement	209425.00	0.00	0.00	209425.00	-	209425.00	209425.00
l) Capital Work In Progress	-			0.00	-	0.00	
Wotk-in-Progress	38337797.66	0.00	14279819.00	24057978.66	-	24057978.66	38337797.66
(Building & Campus)					-		
TOTAL CURRENT YEAR	887376898.59	35005811.00	16112780.34	906269929.25		906269929.25	887376898.59
TOTAL PREVIOUS YEAR	869538559.59	17838339.00	-----	887376898.59		887376898.59	869538559.59

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***Detail of Total addition**

Purchase of Fixed Assets	10898609.00
Exps. on Capital, Work-in-Progress, Campus	
Dev, minor work (Payments made to NBCC/ Cont./ Etc.)	9827383.00
Transfer of exps from Work In Progress to building account	14279819
	35005811.00

**SCHEDULE - 07 : INVESTMENT FROM
EARMARKED/ENDOWMENT FUNDS**

With Schedule Bank

Saving Bank A/C 5264 (Depreciation Fund A/c)	74745.00	72196.00
Saving Bank A/C 1833 (C.P. Fund)	3352800.00	3904858.00
M.M.D.C/F.D.R Account No. 1833 (C.P. Fund)	133020754.00	117723528.00
FDR Account No. 5264 (D.S Fund)	108407337.00	99214074.00
CPF Interest Accured	16685169.00	0.00
TOTAL	261540805.00	220914656.00

**SCHEDULE – 08 : CURRENT ASSETS, LOANS
AND ADVANCES**

(A) CURRENT ASSETS

Consumable Store & Spares (Schedule -12)	3152362.04	5531978.00
Cash in Hand	3605.00	11943.00

i) Bank Balances with Schedule Banks :

S/B 540 (Plan)	21337177.00	18279336.00
S/B 540 (Non-Plan)	-5608345.86	13635642.39
S/B 540 OBC (Plan)	16996750.00	0.00
S/B 540 OBC (Non-Plan)	1750000.00	0.00
S/B A/C 2146 (General Projects)	3336862.00	2842104.00
S/B A/C All Projects (Annexure – 8.1)	770599.60	1733376.60
S/B A/C 2145 (Subsidiary Account)	1434757.00	1436067.00
S/B A/C 2147 (Security Deposit)	2020391.30	1285629.30

ii) Fixed deposits with Schedule Bank :

Account No. 2145 (Subsidiary Account)	25040632.00	22039548.00
Account No. 2147 (Security Deposit)	45362373.00	40727626.00
Interest Accrued On FDR	11145938.00	-

iii) Misc.Receivable:

Lincence Fees Receivable	107743.00	-
Grant in Aid (OBC Plan)	51225000.00	-
Grant in Aid (Non Plan General)	45000000.00	-
Grant in Aid (Plan General)	12183000.00	-
Prepaid Insurance	51910.00	-

TOTAL (A)	235310754.08	107523250.29
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(B) ADVANCES

Advance NBCC	431794.87	431794.87
Advances Recoverable (G.I.A)(Ann. – “8.2”)	54391611.10	8339388.33
Advance Recoverable (L.T.C.) Annx- “8.3”	597775.00	6495.00
Advances Recoverable (Projects)(Annx- “8.4”)	91490.00	184772.00
Letter of Credit Opened with C.B.I., Longowal	190380.00	190380.00
TOTAL (B)	55703050.97	9152830.20

(C) DEPOSITS FOR SERVICES :

Telephone/Electricity	689030.00	689030.00
Others (L.P.G)	80042.70	80042.70

TOTAL (C)	769072.70	769072.70
TOTAL (A+B+C)	291782877.75	117445153.19

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE
FOR THE YEAR ENDED 31.03.09**

SCHEDULE - 09: OTHER INCOME

<u>Particulars</u>	<u>Current Year</u>	<u>Previous Year</u>
<u>(A) FEES FROM STUDENTS :-</u>		
Admission Fee	1137309.00	372080.00
Convocation Fee	120900.00	93945.00
Electricity & Water Charges Fee	2133275.00	2114005.00
Examination fee	2078248.00	1196600.00
Fines	212406.00	311005.00
Grade Card Fee	116175.00	70290.00
Hostel Seat Rent & Common Room Charges	1942285.00	1785675.00
Library Fee	162100.00	142200.00
Medical Fee	166320.00	153720.00
Registration Fee	596900.00	416900.00
Re-evaluation Fee	205600.00	276800.00
Sale of Supp. Forms	26780.00	42770.00
Supp. Exam. Fee	508610.00	291490.00
Transport Fee	183050.00	163250.00
Tuition Fee	37683687.75	35174010.00
Transcript Fee	0.00	440292.00
Contingent Fee (P.G)	370000.00	362500.00
Dairy Charges (Subsidiary Account)	379850.00	351650.00
Identity Card Fee (Subsidiary Account)	60600.00	56100.00
Magazine Fee (Subsidiary Account)	299520.00	261720.00
Swimming Pool Fee (Subsidiary Account)	122640.00	110940.00
Sports Fee (Subsidiary Account)	891720.00	837210.00
Syllabus Fee (Subsidiary Account)	96480.00	88920.00
Enrollment Fee (M. Phil students)	2000.00	32000.00
Enrollment Fee (Ph.D students)	128380.00	29000.00
Laboratory Fee (M. Phil students)	18000.00	30000.00
Semester Fee (Ph.D students)	163260.00	145000.00
Lab Facility Fee	6000.00	19080.00
Misc Receipts Academic (Students)	102035.00	1364958.95
Sale of exam. Forms	113350.00	0.00
TOTAL (A)	50027480.75	46734110.95

(B) ADMINISTRATIVE RECEIPTS

Application Fee		15000.00	2650.00
Bus Charges		172778.00	197628.00
Miscellaneous Receipts (RTI)		5409.00	4273.00
Electricity Charges Received		477598.00	370120.00
Licence Fee		689981.00	429248.00
Miscellaneous Receipts			
Admn.	a)	882979.27	0.00
Works	b)	595764.00	627670.00
Sale of scrap		117113.00	128119.00
Rent of Quarter		572700.00	635781.00
Sale of Tender Form		209700.00	51000.00
Water Charges		124838.00	130538.00
Research & Development Fees (Transfer From A/c 4182 of Projects		237483.00	0.00
TOTAL (B)		4101343.27	2577027.00
GRAND TOTAL (A+B)		54128824.02	49311137.95

SCHEDULE – 10 : ESTABLISHMENT EXPENSES

Salary (Teaching staff)	59517553.00	44187153.00
Salary (Technical Supporting staff)	31281292.00	19898347.00
Salary (Administrative staff)	23500278.00	16128339.00
Bonus	797446.00	441388.00
Contribution to Provident Fund	8277070.00	4573788.00
Liveries to staff	55273.00	69189.00
Book Grants to the Faculty	140100.00	131317.00
Honorarium	6000.00	11820.00
Honorarium (T&P)	0.00	130150.00
Overtime Allowance	137922.00	131646.00
Leave Encashment	379581.00	349109.00
Leave Salary Contribution	-	100521.00
Gratuity	429728.00	0.00
TOTAL	124522243.00	86152767.00

SCHEDULE – 11 : ADMINISTRATIVE EXPENSES

Advertisement	2623566.00	1885601.00
Annual Day Celebration	25871.00	2072.00
Audit Fees	123372.00	141355.00
Bank Charges	194.00	68.00
Electricity Charges	14229363.00	14074882.00
Entertainment Expenses	300409.50	252833.00
Binding Charges	4984.00	107962.00
Insurance Expenses	24052.00	83760.00
Legal Charges	258218.00	361353.00
Miscellaneous Expenses	56718.50	103237.00
Miscellaneous Expenses (2146)	66414.00	-
Ex Gratia	50000.00	-
Fellowship to PHD Students	270967.00	-
Lumsump Incentive	6000.00	-
Library Expenses	106967.50	279988.00
Library Expenses (OBC)	257915.00	0.00
Tech Fest 08	263307.00	0.00
Tech fest 09	329583.00	7438.00
Newspapers & Periodicals Expenses	115200.00	143589.00
Postage & Telegram Expenses	105300.00	136075.00
Printing & Stationery Expenses	1820459.94	1843207.00
Sports & Extra Curricular Activities	86236.00	89879.00
Telephone Expenses	233657.00	224270.00
Water Cess Charges	8694.00	17388.00
Accreditation Exp	350000.00	-
Networking Mnts. /Internet Connection Charges	2106637.00	1883293.00
Repair of Lab Equipments	3550.00	-
Repair of Office Equipments	443124.00	106420.00
Repair of Office Furniture	196581.00	0.00
Fixed assets written off	1832961.34	0.00
Annual Maintenance of EPABX/V. Sat	3800.00	124723.00
Annual Maint. Computer/Gas Line/A.Cs/	290494.00	319097.00
Refrigerators		
Repair of Buld/Roads/Water supply & Sewerage /		
Public Health/Horticulture/Electrical & Electrification	22733087.00	20171756.00

	C/F	C/F
Repair and Maintenance of Vehicles	306111.00	331211.00
Petrol and Oil	1013525.00	782179.00
Epabx Exp	82902.00	-
Convocation Expenses	96323.00	143648.00
Examination Expenses	1404.00	33643.00
Financial Assistance for National/International Conference	20652.00	127267.00
Financial Assistance for Short-Term Courses	103981.00	80781.00
Membership Expenses	5937.00	41655.00
Seminar Expenses	557218.00	470176.00
Academic Expenses	866915.00	231063.00
Financial Assistance to faculty for Computer Training & Placement Expenses	0.00	10200.00
Registration Expenses (Seminar)	4550.00	53975.00
	2000.00	14000.00
<u>Medical Reimbursement Claim :</u>		
Teaching Staff	414979.00	777027.00
Technical Supporting Staff	700703.00	217207.00
Administrative Staff	321045.00	213896.00
<u>Travelling Expenses</u>		
T.A. to Experts	622503.00	310608.00
T.A. to Teaching staff	113620.00	205063.00
T.A to Technical Supporting staff	36673.00	11833.00
T.A to Administrative staff	203347.00	65120.00
T.A to Candidate/Students	1128.00	32823.00
L.T.C. Expenses	1243158.00	325734.00
Reimbursement of Tuition Fee to Employees	105600.00	70760.00
TOTAL	56151956.78	46910115.00

SCHEDULE – 12 : CONSUMABLES STORE FOR DEPARTMENTS/LABS

Office	-	-
Addition during the year	193096.00	33691.00
Expenditure during the year	193096.00	33691.00
Hostel	-	28460.00
Addition during the year	-	1091.00
Expenditure during the year	28460.00	120297.23
Sports	175337.00	264914.00
Addition during the year	-	66166.00
Expenditure during the year	89577.00	108445.00
Guest House	231960.44	242433.00
Addition during the year	18956.00	94818.00
Expenditure during the year	29428.56	66510.00
Dispensary	679430.50	697865.00
Addition during the year	658544.00	135071.00
Expenditure during the year	676978.50	66775.00
Transit Accommodation	27430.00	33181.00
Addition during the year	-	10580.00
Expenditure during the year	5751.00	1440.00
Workshop	-	561209.00
Addition during the year	246499.00	534366.00
Expenditure during the year	807708.00	610530.00
Physics	346030.50	210234.00
Addition during the year	215606.00	10000.00
Expenditure during the year	79809.50	20167.25
SLIET Model School	17198.00	17198.00
Addition during the year	-	-
Expenditure during the year	0.00	-

Chemistry	61241.00	236446.00
Addition during the year	507654.00	399169.00
Expenditure during the year	682859.00	446716.00
Computers	26436.34	10608.00
Addition during the year	56695.00	835.00
Expenditure during the year	40866.66	-
Mechanical	94535.00	54434.00
Addition during the year	40101.00	76799.00
Expenditure during the year	0.00	326060.00
Electronic	16195.00	50670.00
Addition during the year	733.00	4615.00
Expenditure during the year	35208.00	7088.00
Electrical & Instrumentations	55339.70	55347.00
Addition during the year	6084.00	2040.00
Expenditure during the year	6091.30	5545.00
Chemical	231395.50	916361.00
Addition during the year	426202.00	620211.00
Expenditure during the year	1111167.50	266942.00
Food	322821.00	972762.00
Addition during the year	208171.00	176588.00
Expenditure during the year	858112.00	905650.00
Stationary	864334.06	1179865.00
Addition during the year	1504929.00	1709575.00
Maths	2678.00	-
Addition during the year	2748.00	3911.00
Expenditure during the year	70.00	9902.00
Estate Office	-	-
Addition during the year	201618.00	5500.00
Expenditure during the year	201618.00	5500.00
Closing Stock	3152362.04	5531978.00
Addition during the year	2782707.00	2175451.00
Expenditure during the year	4846801.02	3001258.48

Annexure-"6.1"
DETAIL OF BUILDING/ WORKS AS ON 31.03.09

<u>1996-1997</u>	<u>Amount in Rs.</u>
Type IV 48 Quarters	14025783.26
Single Seater Hostel	31727267.85
Science Block	13186801.51
Three Seater Hostel	20799542.63
<u>1997-1998</u>	TOTAL (A) 79739395.25
Miscellaneous Buildings/ Works	225925.00
	TOTAL (B) 225925.00
<u>1998-1999</u>	
Miscellaneous Buildings	1205751.33
Workshop I & II	18023267.00
Electronics Block	23087411.00
Mechanical Block	17301785.00
Girl Hostel-I	14448605.00
Dustbin and Cretch	85000.00
Hostel No.06	12823803.00
Guest House	5919122.00
Type- I Quarters	5810649.00
Type- II Quarters 72 Nos.	8985531.00
Type- III Quarters (New)	21622721.54
Type- III Quarters (Old)	20631994.00
Type-IV Qtrs.24 Nos.	7878209.00
Type- V Quarters 40 Nos.	22581140.00
Shopping Complex 7 Nos.	514782.00
Shopping Complex 3 Nos.	343248.00

Health Centre	571243.00
LPG Godown	74797.00
Boundary Wall	4560003.00
Electrical Work Street Lighting / Augmentation	5882500.12
11 KVOH Lines	4111513.86
Water Supply	4074600.00
OH.Tank & Tubewell 2 Nos.	3145363.00
Sewerage System	8595442.00
Pumping Station (Sewerage)	1318370.00
Roads	8694919.00
Restaurant	701470.00
Class Room - Mechanical Block	2282099.00
Library	13562114.00
Stadium	2108301.00
TOTAL (C)	240945753.85

1999-2000

Primary School	4470760.37
Hostel No. 05	1416616.00
TOTAL (D)	18633376.37

2000-2001

Computer Block	15232829.75
Transit Accommodation	5777012.58
Oxidation Pond	2774998.33
Girls Hostel No.II	18745023.12
Auto Shop	4629749.75
Examination Hall	7531616.62
Student Activity Centre	11978620.00
Director' s Residence	2962143.00
Servant Dormitory (through Estate)	2577924.01
Chemical & Food Block	22312212.13
Type I Qtrs.(18 Nos.)	4483844.00
Type II Qtrs.(18 Nos.)	5030905.89
Bank & Post Office	1188896.81
Admn.Block	22161174.31
Hostel No.7	15574318.98
Hostel No.8	13863057.24
Three shops near transit accommodation	597228.10
TOTAL (E)	157421554.62

2002-2003

Shopping ALT-II	692079.20
Health Centre Extension	1130780.00
Type- IV Qtrs. 12 Nos. (New)	4981258.51
Servant Dormitory	920747.50
Sub - Station - Cum - Estate Office	2349359.15
TOTAL(F)	10074224.36

2004-2005

Admn. Block (Circular Portion) Phase-II	11953287.00
TOTAL (G)	11953287.00

2006-2007

Auditorium Building	11151568.00
Addition / Alternation in Central Library	2749205.00
TOTAL(H)	13900773.00

2008-2009

Construction of community centre	8578523.00
Construction of Extension of Science Block	7746631.00
TOTAL (I)	16325154.00

TOTAL (A+B+C+D+E+F+G+H+I) 549219443.45

ANNEXURE-"6.2"
DETAIL OF MINOR WORKS AS ON 31.03.09

2000-2001

Addition Fan in Type- I Quarters	31889.00
Boundary Wall C- PYTE	117496.00
Construction of Roads	1565124.00
Wash Basin & Mirror in Type - I Quarters	69884.00
Alteration in Coffee Booth	4400.00
Wire Gauge Windows in Type- I Quarters	196254.00
Cup Boards in Science Block	335954.00
Aluminium Partition in Mech Block	33504.00
TOTAL(A)	2354505.00

2001-2002

One addition ceiling Fan in Type- III Quarters	200824.00
M.S.Flat 75x 6 mn Railing in Pathways	56185.00
Const. of Roads Library Building to Computer Block	731496.00
Installation of Tube well & submersible set	427386.00
Street Lighting for Health Centre to Duggan Gate	773207.00
Steel Wire Gauge Windows shutters in various Qtrs.	518164.00
Cup Boards in various Labs in Mech. Block	144761.00
Aluminum Partition for server area in Computer Block	44562.00
Const. of Boundary Wall and Guard room adj Guest House	135735.00
Wire Gauge Door Shutters & Windows in Dispensary	24148.00
Fabricating Gate of rear side boundary wall SMS	14857.00
Boundary wall behind H.No. 5&6 with barbed wire fencing	226052.00
Const.of 3 No. Tennis Courts near Hostel No.3&4 & One in Staff Club	88255.00
Fixing palmettos & glass shelves above washbasin in Type-V Qtrs.	114016.00
Const. of balance two rooms of circular portion at Primary School	166487.00
Machine foundation for foundry in workshop	5469.00
Const. of boundary wall & check post of girl enclave	441142.00
Const. of culverts near G.H and fixing of Sign Boards	249762.00
Wooden counter & Misc items in Acad.& Electronics Block	164179.00
Boundary wall around Type-V Qtrs.	50798.00
Exhaust fan in workshop	4930.00
Lamp in Type I & II Quarter 18 Nos	15354.00
One ceiling fan & exhaust fan in Type- IV Qtrs.	170100.00
Celling fan in Type I & II Qtrs. 18 Nos.	90900.00
TOTAL(B)	4858769.00

2002-2003

Aluminum Partition of Administration Block	993233.00
D.G.Room for Telephone Exchange, Restaurant Boundary Wall	88251.00
M.S. Collapsible Gate and M.S Glazed Window with Grill at Site	54150.00
Tube Light Air Circulator in I.S.T.E.Hall	191571.00
M.S. & C.I. Banches	63364.00
TOTAL (C)	1390569.00

2003-2004

1st RAB Generator connection to Computer & ECE Block	353625.00
F/ F bill Piching of Pucca Khal & Add. Pathways around lake & Informal Gargen	95436.00
1st RAB P/F M.S Wire Guage Windows and Door Shutters in T- V Otrs.	595992.00
Add. / Alt. In various labs of Mech.Block.	674444.00
F/F bill Add./ Alt in old Directorate in Library Building	123035.00
1st RAB supply of Electric items installed in circular portion Administrative Building)	189298.00
1st RAB Pucca khal from the outlet of Oxidation Pond	123230.00
F/F bill L . T. Penal at Auditorium Building	140920.00
1st RAB Pucca Khal informal Garden in front of Boys Hostel 08 and balance portion of Oxidation Pond and Earth Filling at the side of berm of Oxidation Pond 01 & 02	674851.00
1st RAB Wire Guage Door in 54 old T- I & 18 New T- I Quarters	407891.00
1st RAB Display Board in Academic Building	91767.00
1st RAB minor modification in Guest House & Boundary Wall in G.House.	68704.00
1st RAB C/O Pump House -cum -Canteen near B.Hostel No.02	533465.00
1st RAB Provision for Fire Fighting and Detection System	1406022.00
1st RAB Aluminum Door Shutters of main entrance Workshop No.02	100127.00
1st RAB Provision of Street Light 40 W inside and around the B.Hostel No. 01 & 08	348799.00

1st RAB A/A in Anyalsis and Quality Control Lab in Food Deptt.	113214.00
1st RAB Store and Reading Room in Girls Hostel No.01	455156.00
A/A in Chemical and Food Block	363114.00
1st RAB Extension of Road from B. Hostel 01 to Stadium towards informal Garden	232865.00
1st RAB Modification in PED Workshop.	114719.00
1st RAB Extension / strengthening of some exiting roads	825695.00
1st RAB aquastic treatment and stage equipment	787714.00
1st RAB Const. of Pathways from near crossing Estate Office to Electronics Block	103896.00
1st RAB Const of temporary shed for Admn. Block	631578.00
1st RAB const. of under ground overhead tank for fire fighting system in Auditorium Building	70259.00
2nd & final Pilot Plant in Food Department	133276.00
Provision for air cooling system in Auditorium Building	611583.00
Provision for Elect. Installation and stage lighting in Auditorium	414444.00
1st and final Bill MS Sign Boards	19738.00
Construction of Open Parking in Boys Hostel No.03 & 04	264614.00
TOTAL(D)	11069471.00

2004-2005

Const. of Reception Cabin for Security in Boys Hostel	122902.00
Const. of Underground Overhead Tank for Fire Fighting System in Auditorium Building	465803.00
Providing Store / Reading Room in Girls Hostel No.01	265742.00
Provision / Installation of fountain in water body of Plaza	237149.00
Provision for Electric Connection for the boiler in Pilot plant in Food Deptt.	49084.00
Const. of Lecture Hall and Tutorial Room in Food and Chemical Block	1011403.00
Making Earthen mounds around trees in the Wet land and oxidation pond	98861.00
P/ F Barbed Wire fencing surrounding Admn./ Auditorium Block	159993.00
Const. of Road/ Parking for Auditorium Building	926868.00
Const. of Temporary shed for Admn. Block	89075.00
Const. of Pathway from crossing near Estate Office to Electronic Block	5183.00
Extension of road from Boys Hostel No.01 to Stadium towards Informal Garden	166274.00
Provision of Light along the rigid payment along tennis court Hostel No.3 & 4 upto Hostel No.08	151380.00
Landscaping of wetland area at SLIET	268679.00

Addition / Alteration in Lab of Physics Department of Science Block	132718.00
Provision of Barbed wire fencing gates and boards at Oasis lake	52244.00
Fire Fighting and Fire detection system at SLIET Longowal	624519.00
Acoustic treatment and stage equipment for auditorium building	324820.00
Construction of lab of Lecturer Room (for PG Students) at 1st Floor in Food & Chemical Block	643959.00
Providing sound reinforcement and projection system for Auditorium Building	498756.00
Providing Electrical installation and stage lighting in auditorium building	681718.00
Provision of TPNs & Power Plugs in the centre for innovation in Workshop	42158.00
Supplying, Installation , testing and commissioning of load charge over switches of 800 amps and utilization of generator supply to Academic Building , Admn . Block	47941.00
Health Centre, SMS and pump No.01	
Supply of Dias (Modular type) for seminar room in Food & Chemical Block	10000.00
Pre-cast cement concrete pathway near student activity centre	39016.00
Extension of cement concrete pathway from the crossing of pathway to ECE Block	24135.00
Purchase of Geysers for Director's Residence at SLIET	9000.00
TOTAL (E)	7149380.00

2005-2006

Strengthening of existing roads in the campus F/Y 2005-06	776851.00
Const. of Road and Parking for Auditorium Building F/ Y 2005-06	504850.00
Provision of Strong room in the office of contorller of exams in Admn Block F/Y 2005-06	14800.00
Acoustic treatment and stage equipment for Auditorium Building	2162801.00
S/ I testing and commissioning of 06 nos window AC s in the conference hall of Admn. Block F/Y 2005-06	198287.00
Provision for Air Conditioners in the Auditorium of computer block 2004-05 to 2005-06	460196.00
Const. of lab at FF in Food & Chemical Block 2004-05 to 2005-06	273738.00
Fire Fighting and fire detection system in auditorium building 2004-05 to 2005-06	440391.00
Const. of lecture hall and totorial room in Food and chemical block at SLIET , Longowal 2004-05 to 2005-06	94555.00
A/A in research lab at FF in Science Block	19405.00
P/A 100 mn wide strip with road marking paint alongwith the edges of roads from Longowal Gate to Guest House 2005-06	33552.00
Sound System in Auditorium including multimedia projector	57621.00
Provision of hume pipe culverts at different locations (06 nos) on existing roads at SLIET	97284.00
Provision of Ramp at the Entrance of Accounts & Acdemic Section	46105.00
Installation of Multimedia Projector	305120.00
Extension of Bio - Tech Lab at FF in Food department 2005-06	282907.00
A/A in labs in Physics Deptt.in Science Block 2004-05 to 2005-06	509895.00
Installation of Exhaust Fans in Workshop	13493.00
P/F M.S Grill in Exam. Branch at Windows of F/F in Admn. Block	20818.00
Providing Electrical Installation and Street Lighting in Auditorium Building	550695.00
Extension of Water Supply Line from shops Alt- II to Boys Hostel No.08 at SLIET	212622.00
Addition / Alteration in Library Building (Electrical Part)	79716.00
Addition / Alteration in SLIET Restaurant near Bank at SLIET	32810.00
Addition / Alteration in Toilet at Ground Floor and special repair in library building at SLIET	49780.00
Supply of Flag post with M.S. Pipe 32 mm dia including primer and painting complete at SLIET	82416.00

Raising of approach to Faculty Club at SLIET	98297.00
Provision & Installation of 2 nos. TPN 63 Amp.in CDC and Carpentry Shop in W / Shop Building at SLIET	25016.00
External finishing of Estate Office Building at SLIET	79905.00
Construction of Cabin in Bakery Lab of Food Deptt.for Lab-in- charge	49136.00
Provision of sign board at interaction of main high way and road to Duggan Village at SLIET	80464.00
Providing and laying pathway in front of Restaurant and hardcrete flooring in open court yard at SLIET	58355.00
P/F retro reflective tape on existing SLIET M.S. Boards on road at various places outside campus	58968.00
Supply / Installation / Testing / Commissioning of 4 nos wall mounted fans in the labs of Physics Deptt.	7660.00
Providing and laying pathway connecting rear side to Health Centre and provision of aluminium glazed door at Entrance of Health Centre	52841.00
Addition / Alteration in High Tech. Lab, Paper Tech. Lab-II , aluminium partition in front of HOD Office in chemical department.	90945.00
P/F sliding shutter in the shelve of Prof. Room in EIE Deptt.	3124.00
Raising of approach to Type-III Qtrs.(New) for 5 nos.of Blocks at SLIET	184613.00
TOTAL(F)	8110032.00

2006-2007

Aluminium Partitioning in the Dairy Technology Lab on Ground Floor in Food & Chemical Block	171286.00
Addition / Alteration in Labs of Physics Department in Science Block	219599.00
Providing Air Conditioning Work for Auditorium Building at SLIET	2002338.00
Addition / Alteration in Numerical Method and Computational Lab at Science Block	122847.00
Provision of Street Light Poles near Main Shopping Complex	95714.00
Addition / Alteration in the Kitchen of Main Guest House at SLIET	55516.00
Construction of Glazed Counter/ Drawer and Flooring in Done Area in Health Centre at SLIET	54293.00
Provision of Air Conditioning , vertical blinds and aluminum partitioning Food & Chemical Block	230000.00
Extenal Finishing of Computer Block at SLIET	237952.00
Extenal Finishing of Administrative Block	191238.00
External Finishing of Transit Accommodation Building	112259.00
TOTAL(G)	3493042.00

2007-2008

Provision of Exhaust Fans in Health Centre at SLIET	26900.00
External finishing of Boys Hostel No.7 & 8	196942.00
Providing & fixing Block names with stainless steel letters at front of Administrative Block and Auditorium Building	39881.00
External finishing of Transit Accommodation Building	8957.00
External finishing of Food and Chemical Block	435976.00
External finishing of Auditorium Building	309250.00
External finishing of Computer Block	1864.00
Addition / alternation in Type-III(Old) Quarters at SLIET	566386.00
1st RAB of construction of Road for community Centre	238446.00
Provision of Air conditioning vertical blinds and aluminium partitioning of Lab on G.F of Computer Block (Electrical & A.C. work)	69841.00
Replacement of damaged gas pipe line & fittings in Chemistry Labs in Science Block	63237.00
TOTAL (H)	1957680.00

2008-2009

external finishing of Girl hHostel No.2	133980.00
Control of Road for Community center (Rs 11794 of B.m of M.O.B and Rs. 55349 of B.M to be trfd.)	336723.00
providing & fixing of M S weldmesh om Place of damaged gloo mentrlators workshop	39415.00
provision of language lab in first floor of EDP Deptt. In library Building (Electrical part)	28763.00
External finishing of Adm. Block	64084.00
provision of language lab at first floor of EDP Deptt.(civil Part)	17227.00
External finishing compressor/vaccum room bailor room backside food & cemical block	24303.00
Provision of laything of parking area of Admn. Block & library building (electrical par)	400149.00
provision of Electrical service connectoin Room near food & chemical block	40010.00
Addition/ Alteration in Seminar hall in Mechanical Deptt.	319410.00
Provision of wire gauge shutters in residential area in Type-4 Qtrs.	679576.00
Construction of Pathway OBD in 4 Rooms & Power Plugs (10 No.) For T& P Deptt, in extension of Science Block (Civil part)	72278.00
Provision of wire gauge shutters in residential area in T-3 New, T-3 Old & P.G Hostel (T-3 Old) Qtrs	1794773.00
Providing & Laying pathway for accessing gas Agency from insid e the campus	319673.00
Provision of Air conditioning, False ceiling and Alaminium Partitioniing in computation Lab of Food Deptt.(Civil part)	106414.00
Construction of Pathway OBD in 4 Rooms & Power Plugs For T& P Deptt, in extension of Science Block(Electrical)	2446.00
Provision of Air conditioning, False ceiling and Alaminium Partitioniing in computation Lab of Food Deptt.(Electrical part)	73230.00
Provision of New Hod office Room of Mechanical Deptt.(Civil part)	206384.00
Provision for Exhoust fans in are Welding shop & gas Welding shop in Work shop	58408.00
Provision for Pve piping for internet wiring in Language lab of EDP Deptt. In library Building	2715.00
Providing & Fixiing nertical blinds in Labs of CSE Department in Computer Block	167745.00
Establishment of Class Room for Indo-US University network in Computer Block (Civil Part)	452680.00
Providing & Fixing collapsible gates at the entry of roof of 2nd floor of Boys Hostel No. 3 & 4	56480.00
Numbering of trees in SLIET Campus	121987.00
Provision of TPNs for Welding Transfarmers and Rectifiers in Welding Workshop	176309.00

Water Proofing treatment on the roof of Workshop - I (Balance portion)	721518.00
Provision for Installation & electrical wiring for Air Conditions in ISTE Hall in Workshop	225975.00
Establishment of Class Room for Indo-US University network in Computer Block (Electrical Part)	24489.00
Provision of Exhaust fans in Type-U, II & III (New) Residential Quarters	331416.00
Provision for lighting in Children park adjoining to Type- I & II Quarters	88331.00
Addition/Alteration in Research lab of Chemistry Department at Ground Floor in Science Block (Civil Part)	50040.00
Provision of new HOD Office Room in Mechanical Department (Electrical Part)	14357.00
Construction of Scooter/Cycle Parking shed for Boys Hostel No. 3 & 4	800143.00
Provision of Aluminium glazed door at the entry point of reading room in Transit Accommodation	20707.00
Strengthening of pathway of Type-I (Old) Quarters at SLIET	172643.00
provision of Acs in Language Lab of EDP Department in Library Building (Electric Part)	19865.00
Acoustic treatment and stage equipment work in Auditorium Building	438991.00
Supply of Exhaust Fans & Conventional Striplite	268920.00
Supply of Single Split Air Conditioners 3TR	528750.00
Supply of 9 No. Split type Air Conditioners 1.5 Ton alongwith Stabilizer	244800.00
TOTAL (I)	9646107.00
TOTAL (A+B+C+D+E+F+G+H+I)	50029555.00

ANNEXURE -" 8.1 "

CLOSING BALANCE OF VARIOUS PROJECT BANK ACCOUNTS

SR NO.	S/B Account Number	Closing Balance (Dr.)
01	S/B A /C NO. 4828	102684.60
02	S/B A /C NO. 4829	431486.00
03	S/B A /C NO. 4866	33322.00
04	S/B A /C NO. 5065	101831.00
05	S/B A /C NO. 5082	28578.00
06	S/B A /C NO. 5680	70118.00
07	S/B A /C NO. 5706	2580.00
	GRAND TOTAL	770599.60

ANNEXURE -" 8.2 "**ADVANCE RECOVERABLE (G.I.A) AS ON 31.03.2009**

SR NO.	NAME OF EMPLOYEE/PARTY	L.F	DEBIT	CREDIT
1	A.S Arora. A.P	13	5679.00	
2	Ashok kumar , S.K	27	207968.00	
3	Amarjit Singh, Helper	141	15876.00	
4	Amarjeet Kaur P'cist	136	106317.00	
5	Amanpratap Singh, Professor	7	3843.00	
6	Amit Roy Chaudhar, Ex-Lecturer	71	6345.00	
7	Anil Srivastava , Ex-A.P	72	23445.46	
8	Arvind Jayant, A.P	73	39798.00	
9	Ashwani Kumar Ex-AP	74		860.00
10	A.s sahi, A.P	75	64500.00	
11	B.C Sarkar, Professor	44	8083.00	
12	B.K Kanungo, Professor	8	86551.95	
13	Bachittar Singh,Ex.-W.S	76	4080.40	
14	Bahadur singh,Lect	77	7050.00	
15	Bijendra kumar,Ex.-Lecturer	78	10000.00	
16	D.V.Sharma,Supervisor	61		72.00
17	Damanpreet Singh,A.P	79	8453.00	
18	D.C.Saxena,A.P	20	62000.00	
19	Diljinder Singh,Lecturer	12	4860.00	
20	H.K.Sharma,A.P	17		778.00
21	H.S.Bains,A.P	15	30953.00	
22	Harmesh Singh,Superintendent	80	18000.01	
23	Hardeep Singh,Driver	21	238.00	
24	Harbhajan Singh,AWS	81	337300.00	
25	Inderjit Kaur,Helper	16	60000.00	
26	J.S Sidhu,Ex-A.P	82	650.00	
27	Japreet Kaur,A.P	83	49875.00	
28	J.S Ubhi,A.P	62	41540.00	
29	Kila Ram,Peon/Helper	70	337.00	
30	Kuldeep Singh,Ex-AMO	85		424.00
31	L.V.Sud,Ex-Professor	86	360.00	
32	Lakhwinder Singh Solanki,A.P	68	103776.00	
33	Minati Baral,A.P	87	1070000.00	
34	M.B.Bera,Professor	3	3902.00	
35	Manjit Singh,Driver	25	2000.00	
36	Manpreet Singh,Manna,Lect	88	132628.00	
37	Mukhtiar Singh,Ex-Supervisor	89		99.88
38	Manmohan Singh,Lecturer	91	9941.00	
39	N.P Kaur,Ex-Lecturer	93		1132.00
40	Narinder Singh,Driver	9		392.00
41	P.B.Barman,Ex-A.P	95		299.40
42	Pardeep Singh Cheema,A.P	97	45705.00	
43	Prithvi Singh,Librarian	58	855537.00	
44	R.Arulmani,a.P	99	251.00	
45	Ram Pal,A.P	63	206848.00	
46	Ranjeet Singh,Sr.Technician	101	60000.00	
47	S.S Dhaliwal,Professor	103		567.00

48	Sanjay Gupta, Librarian	43	494524.00	
49	Sanjay Marwaha, Professor	5	3869.00	
50	Saroop Singh, Technician	54	33352.00	
51	Soma Sekhran, Clerk(MHRD)	105	13916.00	
52	Sinder Pal, Pharmacist	106	46530.00	
53	T.K.S.P.Gupta, Ex-A.P	108		174.20
54	V.K.Kukreja, A.P	31	66999.00	
55	Vijay Prashar, Technician	110	10.00	
56	Vikas Nanda, A.P	109	9620.00	
57	Vikas Rastogi, A.P	32	2760.00	
58	A.I.C.T.E., New Delhi	97	200000.00	
59	All India Bio-Technology, New Delhi	98	3500.00	
60	Allied Publishers	99		951.02
61	Association of India University	100	1000.00	
62	Bansal Electrical	101	1618.00	
63	B.S.N.L	102	1500.00	
64	Bunines India	103		140.00
65	Central News Agency New Delhi	105	1070.00	
66	D.D Chemist	107	1860.00	
67	D.A.V.P .New Delhi	108	1503094.00	
68	Education Consultants of India Nodia	109	768400.00	
69	Institute of Engg, Calutta	113	10030.00	
70	Jouranl Subscription	114	526.17	
71	Lab Electronics	115	23760.80	
72	Lion Culb	116	1500.00	
73	Ludhian Mgt.Ass , Ludhian	117	1250.00	
74	M.M Response Department, Mumbai	118	804.00	
75	N.S RamKrishana	119	1728.80	
76	National Productivity Council	121	68850.00	
77	OMEGA Electronics	122	11181.50	
78	Oracle Software , New Delhi	123	77317.00	
79	P.S.E.B, Longowal	91	60460.00	
80	Pugmarks Interweb	125	12695.00	
81	SET-05	126	165348.00	
82	Sherpur Agro	127	15931.50	
83	TATA Consultancy	129	249280.00	
84	Uninersal Subscription , New Delhi	130	36290.01	
85	Verka Milk Booth	131	1407.00	
86	VSNL , Jalandhar	132	975928.00	
87	Wisdom Scientific	133	5820.00	
88	YMCA, Faridabad	134	7000.00	
89	Dharm Pal ,AP	14	30580.00	
90	Executive Engg.Ludhiana, cen division CPWD	94	44244016.00	
91	Festival Advance		66000.00	
92	Hari Ram, Tech	154	21400.00	
93	Harish Chopra ,AP	168	87500.00	
94	Harish Chopra ,AP ECE	152	74784.00	
95	Hemant kuarm, Lect.	158	86936.00	
96	H.K Aggarwal, AWS	37	250.00	
97	Inderjit Kaur, Lect.	121	111822.00	
98	Jagtar Singh, Lect.	167	15188.00	
99	Jatinder Singh, Lect.	164	52119.00	
100	J.S Aujila, Lect	160	20750.00	
101	J.S Gill	130	3090.00	
102	Kamlesh kumari ,AP	28	8864.00	
103	K.Prasad, AP	46	56300.00	

104	K.P Singh.AP	154	87995.00	
105	K.S Kahlon, AP	131	99737.00	
106	Kulwant Singh,Ap	115	200000.00	
107	Manoj Goyal	38	12183.00	
108	M.M.Sinha ,Lect.Phy	128	36610.00	
109	Navdeep Jindal	127	14800.00	
110	Pankaj Das Lect	140	9196.00	
111	Pardeep Gupta AP	39	55000.00	
112	Parveen kumar jss	153	4400.00	
113	P.K. Singh AP	163	21840.00	
114	P.S Panesar, Ap	123	52789.00	
115	Rajesh kumar, AP	161	7115.00	
116	Rajinder singh ,Driver	22	3354.00	
117	Raj kumar, Lecturer	169	53100.00	
118	Rakesh kumar Lect.Me	170	250.00	
119	Sanjay Gupta ,Lib	30	95000.00	
120	Sanjeev Bansal	107	39973.00	
121	Sanjeev Garg, Lect	111	1172.00	
122	Sherpur Agro	112	2610.00	
123	Sikander Sharma, Clerk	118	11350.00	
124	S. M. Ahuja	165	7636.00	
125	S. S. Verma, AP	145	99974.00	
126	Subhash Kumar Helper	171	60.00	
127	Surinder Singh, Driver	24	32.00	
128	Vinod Kumar Udc	124	24490.00	
129	V. K. Jain Prof.	113	1815.00	
	TOTAL		54397500.60	5889.50

Outstanding advance : 54397500.60-5889.50 = 57391611.10

ANNEXURE-"8.3"**ADVANCE RECOVERABLE (L.T.C) AS ON 31.03.2009**

<u>Sr.No.</u>	<u>Name of Employee/ Party</u>	<u>Debit</u>	<u>Credit</u>
1	Ajay Pal Singh, Lect, Ltc	49000.00	
2	Damanjit Singh, Ap Ltc	61000.00	
3	D.C.Saxena,Ap Ltc	46000.00	
4	Manoj Goyal, Ltc	121000.00	
5	Pardeep Singh, Ap Ltc	96900.00	
6	R.K.Yadav,Lect, Ltc	15982.00	
7	Ss Punia SPI, Ltc	4.00	
8	Sudeep Singh E.O, Ltc	121000.00	
9	T K Vishnu Kumar, Ltc	6495.00	
10	Vikas Nanda, Ltc	40197.00	
11	V.K.Kukreja, Ltc	40197.00	
	GRAND TOTAL	597775.00	


(SURJEET SINGH)
STORE CLERK

ANNEXURE-"8.4"ADVANCE RECOVERABLE (PROJECTS) AS ON 31.03.2009

<u>Sr.No.</u>	<u>Name of Employee/ Party</u>	<u>Debit</u>	<u>Credit</u>
1	D.A.V.P (Different Prjects)	64200.00	
2	Sh. S.S.Verma (S/B 2146)	19800.00	
3	Dr. B.K.Kanungo,Prof.(S/B 4822)	1500.00	
4	DR. M B Bera (S/B 4829)	5990.00	
GRAND TOTAL		<u>91490.00</u>	
OUTSTANDING ADVANCE =		91,490.00	


(SANJAY ANEJA)
ACCOUNTANT

**SANT LONGOWAL INSTITUTE OF
ENGINEERING & TECHNOLOGY
LONGOWAL, DISTT. SANGRUR
(PUNJAB) 148 001
(DEEMED-TO-BE-UNIVERSITY)**

GRANT-IN-AID ACCOUNT

**RECEIPT AND PAYMENT
ACCOUNT
FOR THE FINANCIAL
YEAR ENDED 31.03.2009**

**SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY,
LONGOWAL, DISST SANGRUR(PUNJAB) 148106
(Deemed-to-be-University)**

GRANT IN AID ACCOUNT

RECEIPT AND PAYMENT ACCOUNTNT FOR THE YEAR ENDED 31.03.2009

Sr. No.	RECEIPTS	Schedule	Current Year	Previous Year	Sr. No.	PAYMENTS	Schedule	Current Year	Previous Year
01)	Opening Balance :				01)	Expenses :			
	Cash in Hand		11943.00	3792.00		Establishment	"15"	130916880.00	86152767.00
	Imprest					Administrative	"16"	54055383.50	46776483.00
	Bank Balance		322893985.29	283456819.19					
02)	Received funds for various Projects alongiwht detail	"17"	1380264.00	464551.00	02)	Payments made against funds for various Projects alongwith detail.	"17"	2213499.00	1809589.00
03)	Grant Received :				03)	Payment for Consumable	"12"	2782707.00	2175451.00
	Grant - in aid, General(Recurring)		94100000.00	88800000.00	04)	<u>Expenditure on Fixed Assets & Capital</u>			
	Grant - in aid, General(Non - Recurring)		20000000.00	15000000.00		<u>Work-in- Progress etc.</u>			
	Grant - in - aid Non Plan (OBC), recurring		1950000.00	0.00	a)	Purchase of Fixed Assets	"6"	10898609.00	12212203.00
	Grant - in - aid Plan (OBC),Non recurring		61825000.00	0.00	b)	Exps. on Capital, Work-in-Progress, Campus Dev, minor work (Payments made to NBCC/Cont./ Etc.)	"6"	9827383.00	5626136.00

04) Interest Received :

On Bank Deposits	3097506.00	6221430.00		
(FDR & Savings A/Cs)			05) Other Payment	"18"
Reserve & Surplus (Intt.)	9195812.00	7905131.00	(Specify)	
Projects Accounts 2146	100865.00	92008.00		
C.P. Fund Interest	0.00	2182977.00	06) Less Outstanding expenses	"19"
				-

05) Other Income

"13" 54021081.02 49311137.95 07) Closing Balances :

06) Any other Receipts

"14" 39341210.00	24484078.15	a) Cash in Hand	3605.00	11943.00
		b) Bank balances		
		i) In deposit A/Cs	311831096.00	279704776.00
		ii) In Saving A/Cs	45465736.04	43189209.29


TOTAL

607917666.31 477921924.29

TOTAL

607917666.31 477921924.29

For G K Garg & Associates
Chartered Accountants


(Sanjay Gupta)
jr. Accountant

Gurinder K. Garg (FCA)
(Partner)



(Jawala Singh)
Accountant



(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)



(Dr. Varinder Sahni)
Director Incharge

SCHEDULE - 13: OTHER INCOME

<u>Particulars</u>	<u>Current Year</u>	<u>Previous Year</u>
<u>(A) FEES FROM STUDENTS :-</u>		
Admission Fee	1137309.00	372080.00
Convocation Fee	120900.00	93945.00
Electricity & Water Charges Fee	2133275.00	2114005.00
Examination fee	2078248.00	1196600.00
Fines	212406.00	311005.00
Grade Card Fee	116175.00	70290.00
Hostel Seat Rent & Common Room Charges	1942285.00	1785675.00
Liabrary Fee	162100.00	142200.00
Medical Fee	166320.00	153720.00
Registration Fee	596900.00	416900.00
Re-evaluation Fee	205600.00	276800.00
Sale of Supp. Forms	26780.00	42770.00
Supp. Exam. Fee	508610.00	291490.00
Transport Fee	183050.00	163250.00
Tuition Fee	37683687.75	35174010.00
Transcript Fee	0.00	440292.00
Contingent Fee (P.G)	370000.00	362500.00
Dairy Charges	379850.00	351650.00
Identity Card Fee	60600.00	56100.00
(Subsidiary Account)		
Magazine Fee (Subsidiary Account)	299520.00	261720.00
Swimming Pool Fee	122640.00	110940.00
(Subsidiary Account)		
Sports Fee (Subsidiary Account)	891720.00	837210.00
Syllabus Fee (Subsidiary Account)	96480.00	88920.00
Enrollment Fee (M. Phil students)	2000.00	32000.00
Enrollment Fee (Ph.D students)	128380.00	29000.00
Laboratory Fee (M. Phil students)	18000.00	30000.00
Semester Fee (Ph.D students)	163260.00	145000.00
Lab Facility Fee	6000.00	19080.00
Misc. Receipts (Academic Students)	102035.00	1364958.95
Sale of Exam. forms	113350.00	0.00
TOTAL (A)	50027480.75	46734110.95

**(B) ADMINISTRATIVE
RECEIPTS**

Application Fee		15000.00	2650.00
Bus Charges		172778.00	197628.00
Miscellaneous Receipts (RTI)		5409.00	4273.00
Electricity Charges Received		477598.00	370120.00
Licence Fee		582238.00	429248.00
Miscellaneous Receipts			
Admn.	a)	882979.27	0.00
Works	b)	595764.00	627670.00
Sale of scrap		117113.00	128119.00
Rent of Quarter		572700.00	635781.00
Sale of Tender Form		209700.00	51000.00
Water Charges		124838.00	130538.00
Research & Development receipt		237483.00	-
TOTAL (B)		3993600.27	2577027.00
GRAND TOTAL (A+B)		54021081.02	49311137.95

SCHEDULE – 14: ANY OTHER RECEIPT

CP FUND	21131501.00	13559551.00
Institute / Hostel / Hostel		
Mess Advance	1972707.00	6083437.00
Security from		
Contractors/suppliers/staff	1665053.00	872570.00
Earnest Money from		
contractors/suppliers	1048893.00	-
Retention Money (N.B.C.C)	3562.00	90940.00
Seminar Grant	95964.00	37500.00
G.I.S	-	301614.00
Scholarship	605195.00	-
Financial Assistance		
(Reimbursable)	72038.00	-
Staff Student Welfare		
Fund	12598475.00	-
Leave salary	54540.00	
N.B.C.C	-	2860000.00
Telephone Security	-	1000.00
Advance (LTC)	-	115280.00
Advance to Staff	-	510775.15
Advance Account (Project)	93282.00	51411.00
	39341210.00	24484078.15

SCHEDULE – 15 : ESTABLISHMENT EXPENSES

Salary (Teaching staff)	59517553.00	44187153.00
Salary (Technical		
Supporting staff)	31281292.00	19898347.00
Salary (Administrative		
staff)	23500278.00	16128339.00
Bonus	797446.00	441388.00
Contribution to Provident		
Fund	8277070.00	4573788.00
CPF intt.	6394637.00	-
Liveries to staff	55273.00	69189.00
Book Grants to the		
Faculty	140100.00	131317.00
Honorarium	6000.00	11820.00
Honorarium (T&P)	0.00	130150.00
Overtime Allowance	137922.00	131646.00
Leave Encashment	379581.00	349109.00
Leave Salary		
Contribution	0.00	100521.00
Gratuity	429728.00	0.00
TOTAL	130916880.00	86152767.00

SCHEDULE – 16 : ADMINISTRATIVE EXPENSES

Advertisement	2623566.00	1885601.00
Annual Day Celebration	25871.00	2072.00
Audit Fees	123372.00	141355.00
Bank Charges	194.00	68.00
Electricity Charges	14229363.00	14074882.00
Entertainment Expenses	300409.50	252833.00
Binding Charges	4984.00	107962.00
Insurance Expenses	75962.00	83760.00
Legal Charges	258218.00	361353.00
Miscellaneous Expenses	56718.50	103237.00
Miscellaneous Expenses (2146)	66414.00	-
Ex Gratia	50000.00	-
Exam Exps.	270967.00	-
Lumsump Incentive	6000.00	-
Liabrary Expenses	106967.50	279988.00
Liabrary Expenses (OBC)	257915.00	0.00
Tech fest 08	263307.00	7438.00
Tech fest 09	329583.00	-
Newspapers & Periodicals Expenses	115200.00	143589.00
Postage & Telegram Expenses	105300.00	136075.00
Printing & Stationery Expenses	1504938.00	1709575.00
Sports & Extra Curricular Activities	86236.00	89879.00
Telephone Expenses	233657.00	224270.00
Water Cess Charges	8694.00	17388.00
Accreditation Exp	350000.00	0.00
Networking Mnts. /Internet Connection Charges	2106637.00	1883293.00
Repair of Lab Equipments	3550.00	-
Repair of Furniture	196581.00	0.00
Repair of Office Equipments	443124.00	106420.00
Annual Maintenance of EPABX/ V. Sat	3800.00	124723.00
Annual Maint. Computer / Gas Line/ A. Cs/ Refrigerators	290494.00	319097.00

Repair of Buld/Roads/Water supply & Sewerage / Public	22733087.00	20171756.00
Health/Horticulture/Elec trical & Electrification		
Repair and Maintenance of Vehicles	306111.00	331211.00
Petrol and Oil	1013525.00	782179.00
Epabx Exp	82902.00	0.00
Convocation Expenses	96323.00	143648.00
Examination Expenses	1404.00	33643.00
Financial Assistance for National/International Conference	20652.00	127267.00
Financial Assistance for Short-Term Courses	103981.00	80781.00
Membership Expenses	5937.00	41655.00
Seminar Expenses	557218.00	470176.00
Academic Expenses	866915.00	231063.00
Financial Assistance to faculty for Computer Training & Placement Expenses	0.00	10200.00
	4550.00	53975.00
Registration Expenses (Seminar)	2000.00	14000.00
<u>Medical Reimbursement Claim :</u>		
Teaching Staff	414979.00	777027.00
Technical Supporting Staff	700703.00	217207.00
Administrative Staff	321045.00	213896.00
<u>Travelling Expenses</u>		
T.A. to Experts	622503.00	310608.00
T.A. to Teaching staff	113620.00	205063.00
T.A to Technical Supporting staff	36673.00	11833.00
T.A to Administrative staff	203347.00	65120.00
T.A to Candidate/Students	1128.00	32823.00
L.T.C. Expenses	1243158.00	325734.00
Reimbursement of Tuition Fee to Employees	105600.00	70760.00
TOTAL	54055383.50	46776483.00

SCHEDULE -17 : DETAIL OF RESEARCH PROJECTS**A.IC.T.E PROJECT**

Research project of Dr. M.B.bera (EMD) (SB4829)	437476.00	426484.00
Grant received during the year	-	-
Interest & other income	14851.00	15234.00
Expenditure during the year	3859.00	56459.00
Research project of Dr. R.C. Chuhan IIPC (SB 4828)	102684.60	99182.60
Grant received during the year	-	-
Interest & other income	3502.00	3383.00
Expenditure during the year	-	-

C.S.I.R PROJECT

Research project of Dr. s. Bhattacharya/	7622.08	7622.08
B.K. Kanungoo "Solgel"	-	-
Grant received during the year	-	-
Expenditure during the year	-	-
CSIR Project of DR. P.P. Kundu (SB 5706)	2580.00	91858.00
Grant received during the year	206397.00	199455.00
Interest & other income	2351.00	3213.00
Expenditure during the year	298026.00	224811.00
CSIR project of DR. D.C. Saxena (SB 6034)	0.00	34457.00
Grant received during the year	-	22312.00
Interest & other income	910.00	6574.00
Refund to MHRD	35367.00	452144.00

Research project of Sh. S.S Verma "Studies N2O (SB 5065)	121631.00	118158.00
Grant received during the year	-	-
Interest & other income	3473.00	3355.00
Expenditure during the year	-	-
CSIR Fellowship Grant	142000.00	142000.00
Grant received during the year	-	142000.00
Interest & other income	-	-
Expenditure during the year	-	-
<u>D.S.T PROJECT</u>		
Research project of Dr. N.P. Singh (GA IN SB)	9349.00	9349.00
Grant received during the year	-	-
Expenditure during the year	-	-
<u>M.H.R.D PROJECT</u>		
Research project of Dr. Anil Srivastava (Polymembrane)	-1650.00	-1650.00
Grant received during the year	-	-
Expenditure during the year	-	-
MHRD project of Sh. Amar Pratap Singh (SB 5681)	0.00	665574.00
Grant received during the year	-	-
Interest & other income	19549.00	22697.00
Refund to MHRD	685123.00	-
Research project of Dr. S.K. Mohapatra	6200.00	6200.00
(Modernization of I.C. labs (SB 5071)		
Grant received during the year	-	-
Interest & other income	-	-
Expenditure during the year	-	-
Research project of Anil. Srivastava	-34128.00	-34128.00
"Modernization of Polymer Processing Lab"		
Grant received during the year	-	-
Expenditure during the year	-	-

MHRD Prj. Dr. Dhiraj Sud "Photo Assisted (SB 4826)	0.00	228806.00
Grant received during the year	-	-
Other Receipt (Interest)	5362.00	7862.00
Expenditure during the year	-	-
Refund to MHRD	234168.00	-
MHRD (TAT) Project of Dr. B.K. Kanungo (SB 4822)	7300.00	7300.00
Grant received during the year	-	-
Other Receipt (Interest)	-	-
Expenditure during the year	-	-
MHRD Project Sh. Asim Ali Khan (SB 5246)	5800.00	5800.00
Grant received during the year	-	-
Interest Received	-	-
Expenditure during the year	-	-
Refund to MHRD	-	-
MHRD Project Sh. Ashwani Kumar (SB 5259)	5800.00	5800.00
Grant received during the year	-	-
Interest Received	-	-
Expenditure during the year	-	-
MHRD (MOD) Project of Dr. A.S. Arora		
"Dev. of Expert System" (SB 5260)		
Grant received during the year	-	-
Interest Received/ Other Receipts	-	7903.00
Expenditure during the year	-	-
Refund to Ministry	-	307462.00

MHRD Project Sh. H.R. Ghatak (SB 4815)	5800.00	5800.00
Grant received during the year	-	-
Other Receipts (Interest)	-	-
Expenditure during the year	-	-
MHRD Project Sh. K.P. Singh (SB 4823)	5800.00	5800.00
Grant received during the year	-	-
Other Receipts (Interest)	-	-
Expenditure during the year	-	-
MHRD Project Sh. Manjeet Singh	5800.00	5800.00
Grant received during the year	-	-
Interest Received	-	-
Expenditure during the year	-	-
Refund to MHRD	-	-
MHRD Project Dr. P.K. Dhiman (SB 4825)	5800.00	5800.00
Grant received during the year	-	-
Other Receipts (Interest)	-	-
Expenditure during the year	-	-
MHRD Project Sh. Parveen Kumar (SB 5245)	5800.00	5800.00
Grant received during the year	-	-
Interest Received	-	-
Expenditure during the year	-	-
Refund to MHRD	-	-

MHRD Project Sh. Raj Kumar (SB 5248)	5800.00	5800.00
Grant received during the year	-	-
Interest Received	-	-
Expenditure during the year	-	-
Refund to MHRD	-	-
MHRD Project of Sh. S.K. Soni (SB 5244)	5800.00	5800.00
Grant received during the year	-	-
Interest Received	-	-
Expenditure during the year	-	-
Refund to MHRD	-	-
MHRD Project of Dr. Jappreet Kaur (SB 5680)	70118.00	67727.00
Grant received during the year	-	-
Interest Received	2391.00	2331.00
Expenditure during the year	-	-
MEF Project Dr. Dhiraj Sud. (SB 5104)		
Grant received during the year	-	-
Other Receipts (Interest)	-	1924.00
Expenditure during the year	-	31959.00
Refund to Ministry	-	19122.00
Kota Dal Mill Project (SB 5082)	28578.00	27603.00
Grant received during the year	-	-
Other Receipts (Interest)	975.00	942.00
Expenditure during the year	-	-

FIST Programme of Dr. S.K. MohaPatra (SB 4866)	33322.00	26185.00
Grant received during the year	-	-
Other Receipts (Interest)	11170.00	25366.00
Expenditure during the year	4033.00	717632.00
Scheme of Dev. of P.G. Education	5171.00	5171.00
Grant received during the year	-	-
Expenditure during the year	-	-
Natioal Science day	5000.00	5000.00
Grant received during the year	-	-
Expenditure during the year	-	-
Natioal Tech. Day	10000.00	10000.00
Grant received during the year	-	-
Expenditure during the year	-	-
Csir Prj. Dr.P.S.Panesar	154223.00	-
Grant received during the year	897333.00	-
Expenditure during the year	743110.00	
Csir Prj. Reeba Panesar Raj Sb 2146	2187.00	-
Grant received during the year	212000.00	-
Expenditure during the year	209813.00	-
	1161863.68	
Closing Balance	1161863.68	1995098.68
Grant received	1315730.00	363767.00
Interest Received	64534.00	100784.00
Expenditure during the year	1258841.00	1483005.00
Refund of Ministry	954658.00	326584.00

SCHEDULE - 18: OTHER PAYMENT

GIS	301114.00	-
EMD	-	200384.00
Travel Grant	-	53980.00
Scholarship	-	9003.00
Advance Recoverable (G.I.A)	46052222.77	-
Advance Recoverable (L.T.C)	591280.00	-
	46944616.77	263367.00

SCHEDULE – 19

LIST OF OUTSTANDING EXPENSES FOR THE YEAR 2008-09

S.NO.	PARTICULARS	AMOUNT
1	Tech fest-09	153902.00
2	Physics (N/C)	93288.00
3	Chemistry (N/C)	52668.00
4	Audio visual	9800.00
5	EDP(N/C)	136805.00
6	Repairs & maint. Of vehicals	18545.00
7	Printing & Stationery	18384.00
8	Dispencery	634316.00
9	Chemistry (c)	56257.00
10	EPABX (c)	78065.00
11	Food (C)	34356.00
12	POL	106740.00
13	Networking maintaince	517031.00
14	TA ADMN.	4440.00
15	TA TECH SUPP.	2027.00
16	TA TEACHING	9863.00
17	MRC ADMN.	21713.00
18	MRC TECH SUPP.	21579.00
19	MRC TEACHING	8553.00
20	Repairs & maint. Of building	1589368.00
21	Telephone expences	5493.00
22	Overtime Allowance	15214.00
23	Entertainment & Hospitality expences	5867.00
24	Salary Tech supp.	16730.00
25	Membership fees	3517.00
26	Electricity expences	708300.00
27	Academic expences	74550.00
28	Newspaper expences	15046.00
29	Salary Admn,	708728.00
30	Salary teaching	186192.00
31	Legal expences	7368.00
32	Library Books (OBC)	817051.00
33	Library Books (General)	854581.00
34	Library Equipment (NC General)	35512.00
	TOTAL	7021849.00

FUND POSITION OF GRANT - IN - AID ACCOUNT AS ON 31.03.2009

(a)	Opening Balance as on 01.04.08		322905928.29
(b)	Receipts during the year Grant - in - aid		
	Grant in aid ,Genral(Recurring)	94100000.00	
	Grant in aid ,Genral(Non -recurring)	20000000.00	
	Grant in aid (OBC) Non Plan,Recurring	1950000.00	
	Grant in aid,Plan(OBC),Non recurring	<u>61825000.00</u>	177875000.00
©	Research Grant-in-aid		1380264.00
	Other Income		54021081.02
	Administrative receipts		4697494.23
	Advances		93282.00
	TOTAL		560973049.54
©	Expenditure during the year		
	Capital Expenditure	20725992.00	
	Less : Outstanding for liabrary books	1707144.00	19018848.00
	Revenue Expenditure	<u>187754970.50</u>	
	Less outstanding for expenses	<u>5314705.00</u>	182440265.50
	Expenditure in research projects		2213499.00
	TOTAL		203672612.50
7d)	Closing Balance as on 31.03.09		357300437.04

CASH & BANK BALANCES AS ON 31.03.09

1	Cash in Hand	3605.00
2	S/ B 540 (Non -Plan)	-3858345.86
3	S/ B 540 (Plan)	38333927.00
4	S/ B Accounts (Projects)	770599.60
5	S/ B Account (2146) General Project	3336862.00
6	S/ B A/C 2145 (Subsidiary Account)	1434757.00
7	S/ B A/C 2147 (Security Deposit)	2020391.30
8	S/ B A/C 5264 (Depreciation Fund A/C)	74745.00
9	M.M.D.C./F.D.R.A/C No.5264 (Sinking Fund)	108407337.00
10	M.M.D.C./F.D.R.A/C No.2145 (Subsidiary Account)	25040632.00
11	M.M.D.C./F.D.R.A/C No.2147 (Security Deposit)	45362373.00
12	Saving Bank Account 1833 (C.P. Fund)	3352800.00
13	M.M.D.C./F.D.R.A/C No.1833 (C.P. Fund)	133020754.00
TOTAL		357300437.04

**STAFF & STUDENT WELFARE
FUND/ COMPUTER
DEVELOPMENTS
FUND/ INSTITUTE
DEVELOPMENT FUND AND
CONSULTANCY FUND**

**BALANCE SHEET
AS ON 31.03.2009**

**STAFF & STUDENT WELFARE FUND/ COMPUTER DEVELOPMENTS FUND/
INSTITUTE DEVELOPMENT FUND & CONSULTANCY FUND**

**SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY , LONGOWAL DISTT SANGRUR (PUNJAB)
(DEEMED TO BE UNIVERSITY)**

BALANCE SHEET AS AT 31.03.2009

<u>S/B /A/C 320 (SWF)</u>		<u>S/B/A/C 3010 (CDF)</u>		<u>S/B/A/C 3011 (IDF)</u>		<u>S/B/A/C 3671 (CF)</u>	
Sche- dule	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year	Current Year

LIABILITIES


Corpus/ Capital Fund	26728145.00	22889500.00	49743199.00	40905065.00	60261359.20	49630457.20	753190.25	752417.25
Current Liabilities & Provisions	475959.00	351706.00	7124.00	7124.00	0.00	0.00	0.00	0.00
TOTAL	27204104.00	23241206.00	49750323.00	40912189.00	60261359.20	49630457.20	753190.25	752417.25

ASSETS

Fixed Assets	7346925.00	5960800.00	13369159.00	13369159.00	12909820.00	12909820.00	0.00	0.00
Current Assets, Loans ,Advances etc.	19857179.00	17280406.00	36381164.00	27543030.00	47351539.20	36720637.20	753190.25	752417.25
TOTAL	27204104.00	23241206.00	49750323.00	40912189.00	60261359.20	49630457.20	753190.25	752417.25

**For G.K.Garg & Associates
Chartered Accountants**

**Gurinder k. Garg (FCA)
(Partner)**


(Sanjay Kumar Jain)
Jr. Accountant


(Sanjay Aneja)
Accountant


(Rakesh Mishra)
Dy.Registrar
(Accounts & Audit)


(Dr. Varinder Sahni)
Director In-Charge

SCHEDULE-01: CORPUS/CAPITAL FUNDS

	<u>S/B /A/C 320 (SWF)</u>		<u>S/B/A/C 3010 (CDF)</u>		<u>S/B/A/C 3011(IDF)</u>		<u>S/B/A/C 3671 (CF)</u>	
	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year
Balance as at the of the year	22889500.00	20816679.00	40905065.00	35174944.00	49630457.20	33686521.20	752417.25	675533.25
Add Balance of net Income trfd from the income & Expenditure A/c	3838645.00	2072821.00	8838134.00	5730121.00	10630902.00	15943936.00	773.00	76884.00
TOTAL	26728145.00	22889500.00	49743199.00	40905065.00	60261359.20	49630457.20	753190.25	752417.25

SCHEDULE -2: CURRENT LIABILITIES AND PROVISIONS**Other Current Liabilities.**

Grant in Aid Account	5000.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00
SET	0.00	0.00	1424.00	1424.00	0.00	0.00	0.00	0.00
Alumini Association & House Charge Fund	408506.00	346556.00	0.00	0.00	0.00	0.00	0.00	0.00
CDC	0.00	0.00	2850.00	2850.00	0.00	0.00	0.00	0.00
PWD	0.00	0.00	2850.00	2850.00	0.00	0.00	0.00	0.00
SMS Fees	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Outstanding exp/liabilities	62303.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tech Fest	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	475959.00	351706.00	7124.00	7124.00	0.00	0.00	0.00	0.00

SCHEDULE -3 FIXED ASSETS

Particulars	cost as at 31.03.2008			Addition during			Deductions during the year		Dep		Cost as at 31.03.2009		
	S/B 320	S/B 3010	S/B 3011	S/B 320	S/B 3010	S/B 3011	S/B 320	S/B 3010	S/B 3011	S/B 3010	S/B 320	S/B 3010	S/B 3011
(A) FIXED ASSETS													
Land													
Buildings	193151.00	426966.00	2076606.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	193151.00	426966.00	2076606.00
Amenities	108888.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	108888.00	0.00	0.00
Campus Devl.	185744.00	0.00	326155.00	274000.00	0.00	0.00	0.00	0.00	0.00	0.00	459744.00	0.00	326155.00
Minor Works	2000839.00	100308.00	3885914.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2000839.00	100308.00	3885914.00
TOTAL (A)	2488622.00	527274.00	6288675.00	274000.00	0.00	0.00	0.00	0.00	0.00	0.00	2762622.00	527274.00	6288675.00
(B) Deptt. Equip.													
Mechanical	0.00	550347.00	380568.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	550347.00	380568.00
Electrical	168000.00	150330.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	168000.00	150330.00	0.00
Electronics	0.00	429295.00	916081.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	429295.00	916081.00
Mathematics	0.00	168419.00	569640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	168419.00	569640.00
Food Tech.	0.00	216747.00	803656.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	216747.00	803656.00
Computer	0.00	7106873.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7106873.00	0.00
Physics	0.00	15319.00	230504.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15319.00	230504.00
Chemistry	0.00	259257.00	136180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	259257.00	136180.00
Workshop	1197.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1197.00	0.00	0.00
Chemical	0.00	85019.00	946890.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85019.00	946890.00
Total (B)	169197.00	9121606.00	3983519.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	169197.00	9121606.00	3983519.00
(C) CENTRAL FACILITIES													
Furniture	1016235.00	213899.00	1417059.00	1112125.00	0.00	0.00	0.00	0.00	0.00	0.00	2128360.00	213899.00	1417059.00
Hostel Equip	723288.00	1450407.00	873199.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	723288.00	1450407.00	873199.00
Guest house	80500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80500.00	0.00	0.00
Faculty Club	30179.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30179.00	0.00	0.00
Library Books	985836.00	0.00	96867.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	985836.00	0.00	96867.00
Office Equip.	196132.00	390987.00	196120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	196132.00	390987.00	196120.00
Sports Equip	46767.00	0.00	46537.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46767.00	0.00	46537.00
Horticulture	0.00	0.00	7844.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7844.00
SMS School	224044.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	224044.00	0.00	0.00
Computer networking	0.00	1664986.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1664986.00	0.00
Total (C)	3302981.00	3720279.00	2637626.00	1112125.00	0.00	0.00	0.00	0.00	0.00	0.00	4415106.00	3720279.00	2637626.00
Total Current year	5960800.00	13369159.00	12909820.00	1386125.00	0.00	0.00	0.00	0.00	0.00	0.00	7346925.00	13369159.00	12909820.00
Total Previous Year	5926270.00	13369159.00	12909820.00	34530.00	0.00	0.00	0.00	0.00	0.00	0.00	5960800.00	13369159.00	12909820.00

SCHEDULE -04: CURRENT ASSETS , LOANS, ADVANCES

	S/B/A/C 320 (SWF)		S/B/A/C 3010 (CDF)		S/B/A/C 3011(IDF)		S/B/A/C 3671 (CF)	
	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year
(A) CURRENT ASSETS								
01 Bank Balances with Scheduled Bank								
On Deposit A/ Cs	6000000.00	11340922.00	29000000.00	20000000.00	38500000.00	30000000.00	0.00	0.00
On Saving A/ Cs	722449.00	5462795.00	3788005.00	7530188.00	4315270.20	6704497.20	719394.25	715417.25
Interest Accured on FDR	347261.00	0.00	3580317.00	0.00	4520129.00	0.00	11796.00	0.00
TOTAL (A)	7069710.00	16803717.00	36368322.00	27530188.00	47335399.20	36704497.20	731190.25	715417.25
(B) Advances (as per Annexure- "A")	12787469.00	476689.00	12842.00	12842.00	16140.00	16140.00	22000.00	37000.00
TOTAL A+B	19857179.00	17280406.00	36381164.00	27543030.00	47351539.20	36720637.20	753190.25	752417.25

ANNEXURE "A" TO SCHEDULE OF ADVANCES

Name of the Employee Party	S/B/A/C 320 (SWF)		S/B/A/C 3010 (CDF)		S/B/A/C 3011(IDF)		S/B/A/C 3671 (CF)	
	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year
ISTE Chapter	4900.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00
Raj Singh, Care Taker	0.00	2838.00	0.00	0.00	0.00	0.00	0.00	0.00
Damanjit Singh	-6.00	-6.00	0.00	0.00	0.00	0.00	0.00	0.00
Harish Chopra	4500.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00
Divisional Forest Officer	0.00	274000.00	0.00	0.00	0.00	0.00	0.00	0.00
Spicmacay Punjab, Amritsar	7000.00	7000.00	0.00	0.00	0.00	0.00	0.00	0.00
Vikram Dhiman, Student (reg no PG/ME/13/02)	40000.00	40000.00	0.00	0.00	0.00	0.00	0.00	0.00
Guard electronics frp, 2001-0;	0.00	0.00	12842.00	12842.00	0.00	0.00	0.00	0.00
National Institute of Science	0.00	0.00	0.00	0.00	16140.00	16140.00	0.00	0.00
Ranjit Singh	10000.00	10000.00	0.00	0.00	0.00	0.00	0.00	0.00
Sanjay Marwaha	5961.00	5961.00	0.00	0.00	0.00	0.00	0.00	0.00
Pardeep Gupta	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dhiraj Sud	100000.00	100000.00	0.00	0.00	0.00	0.00	22000.00	22000.00
J. S. Dhillon	4039.00	4039.00	0.00	0.00	0.00	0.00	0.00	0.00
Pardeep Singh	0.00	23457.00	0.00	0.00	0.00	0.00	0.00	0.00
Pankaj Kumar Dass	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Amarjit Singh Technician	7000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. C. Sarkar	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lakhwinder Solanki	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15000.00
Grant in aid A/c No. 540	12598475.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	12787469.00	476689.00	12842.00	12842.00	16140.00	16140.00	22000.00	37000.00

**STAFF & STUDENT WELFARE
FUND/ COMPUTER
DEVELOPMENTS
FUND/ INSTITUTE
DEVELOPMENT FUND AND
CONSULTANCY FUND**

**INCOME AND EXPENDITURE
ACCOUNT FOR THE
FINANCIAL YEAR ENDED
31.03.2009**


**STAFF & STUDENT WELFARE FUND/ COMPUTER DEVELOPMENTS FUND/
INSTITUTE DEVELOPMENT FUND & CONSULTANCY FUND**

**SANT LONGOWAL INSTITUTE OF ENGINEERS & TECHNOLOGY, LONGOWAL DISTT SANGRUR (PUNJAB)
(DEEMED TO BE UNIVERSITY)**

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2009

INCOME	Sche- dule	<u>S/B /A/C 320 (SWF)</u>		<u>S/B/A/C 3010 (CDF)</u>		<u>S/B/A/C 3011(IDF)</u>		<u>S/B/A/C 3671 (CF)</u>	
		Current	Previous	Current	Previous	Current	Previous	Current	Previous
		Year	Year	Year	Year	Year	Year	Year	Year
Fees/Subscriptions	" 5 "	2563116.00	2408125.00	5071292.00	5069900.00	5930992.00	5352925.00	0.00	60080.00
Interest Received	" 6 "	1742428.00	528381.00	3766842.00	624821.00	4699910.00	591011.00	35773.00	21844.00
Other Income	" 7 "	7648.00	69996.00	0.00	35400.00	0.00	10000000.00	0.00	0.00
TOTAL		4313192.00	3006502.00	8838134.00	5730121.00	10630902.00	15943936.00	35773.00	81924.00
EXPENDITURE									
Other Admn. Exp.	" 8 "	474547.00	933681.00	0.00	0.00	0.00	0.00	35000.00	5040.00
Excess of income over expenditure transferred to corpus fund	" 1 "	3838645.00	2072821.00	8838134.00	5730121.00	10630902.00	15943936.00	773.00	76884.00
Total		4313192.00	3006502.00	8838134.00	5730121.00	10630902.00	15943936.00	35773.00	81924.00

For G.K.Garg & Associates
Chartered Accountants


(Sanjiv Kumar Jain)
Jr. Accountant

Gurinder k. Garg (FCA)
(Partner)


(Sanjay Aneja)
Accountant

(Rakesh Mishra)
Dy.Registrar
(Accounts & Audit)


(Dr. Varinder Sahni)
Director In-Charge

SCHEDULES FORMING PART OF INCOME AND EXPENDITURE FOR THE PERIOD ENDING 31.03.2009

SCHEDULE -05: FEES/ SUBSCRIPTIONS

	<u>S/B /A/C 320 (SWF)</u>		<u>S/B/A/C 3010 (CDF)</u>		<u>S/B/A/C 3011(IDF)</u>		<u>S/B/A/C 3671 (CF)</u>	
	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year
Student Welfare Fund	1101600.00	1026400.00	0.00	0.00	0.00	0.00	0.00	0.00
Student Activity Fund	1144255.00	1048075.00	0.00	0.00	0.00	0.00	0.00	0.00
Book Bank	175250.00	165350.00	0.00	0.00	0.00	0.00	0.00	0.00
Cable Fees	142011.00	168300.00	0.00	0.00	0.00	0.00	0.00	0.00
Internet fee	0.00	0.00	3018000.00	2812800.00	0.00	0.00	0.00	0.00
Computer Devel. Fund	0.00	0.00	2053292.00	2257100.00	0.00	0.00	0.00	0.00
Inst Devel. Fund	0.00	0.00	0.00	0.00	5192492.00	4660625.00	0.00	0.00
Hostel Establishment fund	0.00	0.00	0.00	0.00	738500.00	692300.00	0.00	0.00
Consultancy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60080.00
Total	2563116.00	2408125.00	5071292.00	5069900.00	5930992.00	5352925.00	0.00	60080.00

SCHEDULE -06 : INTEREST RECEIVED

	<u>S/B /A/C 320 (SWF)</u>		<u>S/B/A/C 3010 (CDF)</u>		<u>S/B/A/C 3011(IDF)</u>		<u>S/B/A/C 3671 (CF)</u>	
	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year
<u>On Term Deposits :-</u>								
With Scheduled Banks								
Interest received	1257553.00	105149.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest accrued	347261.00	0.00	3580317.00	0.00	4520129.00	0.00	11796.00	0.00
<u>On Saving Accounts :-</u>								
With Scheduled Banks								
	137614.00	423232.00	186525.00	624821.00	179781.00	591011.00	23977.00	21844.00
Total	1742428.00	528381.00	3766842.00	624821.00	4699910.00	591011.00	35773.00	21844.00

SCHEDULE -07 : OTHER INCOME

Receipt Trfd from SET-1984	0.00	0.00	0.00	0.00	10000000.00	0.00	0.00	0.00
Comp.Fee SMS	0.00	0.00	0.00	35400.00	0.00	0.00	0.00	0.00
Miscellaneous Receipts	7648.00	69996.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	7648.00	69996.00	0.00	35400.00	0.00	10000000.00	0.00	0.00

SCHEDULE -08 : OTHER ADMINISTRATIVE EXPENSES

	<u>S/B /A/C 320 (SWF)</u>		<u>S/B/A/C 3010 (CDF)</u>		<u>S/B/A/C 3011(IDF)</u>		<u>S/B/A/C 3671 (CF)</u>	
	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year
Entertainment & Hospitality	9785.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual day celebration	45081.00	17664.00	0.00	0.00	0.00	0.00	0.00	0.00
Honorarium	133102.00	128500.00	0.00	0.00	0.00	0.00	0.00	0.00
Misc Exp.	3230.00	52349.00	0.00	0.00	0.00	0.00	0.00	0.00
Sports & Extra Curricular activities	5632.00	16124.00	0.00	0.00	0.00	0.00	0.00	0.00
T.A to student /experts/teaching staff	8673.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Smart Card Fee.	0.00	655459.00	0.00	0.00	0.00	0.00	0.00	0.00
Salary	245587.00	22732.00	0.00	0.00	0.00	0.00	0.00	0.00
R & M of Vehicle	23457.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Printing & Stationery	0.00	9480.00	0.00	0.00	0.00	0.00	0.00	0.00
Consulancy Charges	0.00	0.00	0.00	0.00	0.00	0.00	35000.00	5040.00
Outfit Allowance	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00
Advertisement Exp.	0.00	30173.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	474547.00	933681.00	0.00	0.00	0.00	0.00	35000.00	5040.00

**STAFF & STUDENT WELFARE
FUND/ COMPUTER
DEVELOPMENTS
FUND/ INSTITUTE
DEVELOPMENT FUND AND
CONSULTANCY FUND**

**RECEIPT AND PAYMENT
ACCOUNT
FOR THE FINANCIAL
YEAR ENDED 31.03.2009**

**STAFF & STUDENT WELFARE FUND/ COMPUTER DEVELOPMENTS FUND/
INSTITUTE DEVELOPMENT FUND & CONSULTANCY FUND**

**SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY , LONGOWAL DISTT SANGRUR (PUNJAB)
(DEEMED TO BE UNIVERSITY)**

RECEIPT & PAYMENT ACCOUNT FOR THE YEAR ENDED 31.03.2009

Receipts	<u>S/B /A/C 320 (SWF)</u>		<u>S/B/A/C 3010 (CDF)</u>		<u>S/B/A/C 3011(IDF)</u>		<u>S/B/A/C 3671 (CF)</u>	
	Sche- dule	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year	Current Year
RECEIPTS								
Opening Balance								
Bank Balances								
Saving A/c		5462795.00	12876506.00	7530188.00	21800067.00	6704497.20	20760561.20	715417.25
Deposit A/c		11340922.00	1235773.00	20000000.00	0.00	30000000.00	0.00	0.00
Smart Card A/c		0.00	633107.00	0.00	0.00	0.00	0.00	0.00
Interest Received :								
Bank Deposits	" 6(A)"	1395167.00	528381.00	186525.00	624821.00	179781.00	591011.00	23977.00
Other income (Fee /Subscription)	" 9"	2563116.00	2408125.00	5071292.00	5069900.00	5930992.00	5352925.00	0.00
Any other receipt	"10"	69598.00	123996.00	0.00	35400.00	0.00	10000000.00	0.00
Advances		0.00	57040.00	0.00	0.00	0.00	0.00	15000.00
Total		20831598.00	17862928.00	32788005.00	27530188.00	42815270.20	36704497.20	754394.25
								720457.25


**STAFF & STUDENT WELFARE FUND/ COMPUTER DEVELOPMENTS FUND/
INSTITUTE DEVELOPMENT FUND & CONSULTANCY FUND**

**SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY, LONGOWAL DISTT SANGRUR (PUNJAB)
(DEEMED TO BE UNIVERSITY)**


RECEIPT & PAYMENT ACCOUNT FOR THE YEAR ENDED 31.03.2009

Payments	Sche- dule	S/B /A/C 320 (SWF)		S/B/A/C 3010 (CDF)		S/B/A/C 3011 (IDF)		S/B/A/C 3671 (CF)	
		Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year	Current Year	Previous Year
Expenses									
Establishment		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<u>Administrative</u>	"11"	474547.00	969081.00	0.00	0.00	0.00	0.00	35000.00	5040.00
<u>Advances</u>		12310780.00	55600.00	0.00	0.00	0.00	0.00	0.00	0.00
Less:- Outstanding Expenses		-62303.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Expenses on Fixed Assets & W.I.P	"03"	1386125.00	34530.00	0.00	0.00	0.00	0.00	0.00	0.00
Fixed Assets									
Capital W.I.P									
Closing Balance :									
Deposit A/c		6000000.00	11340922.00	29000000.00	20000000.00	38500000.00	30000000.00	0.00	0.00
Saving A/c		722449.00	5462795.00	37880005.00	7530188.00	4315270.20	6704497.20	719394.25	715417.25
Total		20831598.00	17862928.00	32788005.00	27530188.00	42815270.20	36704497.20	754394.25	720457.25

For G.K.Garg & Associates
Chartered Accountants


(Sanjay Kumar Jain)
Jr. Accountant


(Rakesh Mishra)
Dy.Registrar
(Accounts & Audit)


(Dr. Varinder Sahni)
Director In-Charge

Gurinder k. Garg (FCA)
(Partner)

SCHEDULES FORMING PART OF RECEIPT & PAYMENT FOR THE PERIOD ENDING 31.03.2009

SCHEDULE -6(A) : INTEREST RECEIVED

	<u>S/B /A/C 320 (SWF)</u>	<u>S/B/A/C 3010 (CDF)</u>	<u>S/B/A/C 3011(IDF)</u>	<u>S/B/A/C 3671 (CF)</u>
<u>On Term Deposits :-</u>				
With Scheduled Banks				
Interest received	1257553.00	105149.00	0.00	0.00
<u>On Saving Accounts :-</u>				
With Scheduled Banks	137614	423232.00	179781.00	23977.00
Total	1395167.00	528381.00	179781.00	23977.00
		624821.00	591011.00	21844.00
		186525.00	23977.00	21844.00

	Current		Previous		Current		Previous		Current		Previous	
	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year

SCHEDULE -09 : OTHER INCOME (FEES/ SUBSCRIPTION)

FEES FROM STUDENTS

Student Welfare Fund	1101600.00	1026400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Student Activity Fund	1144255.00	1048075.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Book Fees	175250.00	165350.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cable Fees	142011.00	168300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Computer Devl. Fund	0.00	0.00	3018000.00	2812800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Institute Development Fund	0.00	0.00	2053292.00	2257100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hostel Establishment fund	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4660625.00	0.00	0.00	0.00	0.00
Consultancy	0.00	0.00	0.00	0.00	0.00	0.00	0.00	692300.00	0.00	0.00	60080.00	0.00
Total	2563116.00	2408125.00	5071292.00	5069900.00	5930992.00	5352925.00	0.00	0.00	60080.00	0.00	0.00	0.00

SCHEDULE -10 : ANY OTHER RECEIPTS

Misc Receipts	0.00	0.00	0.00	0.00	0.00	10000000.00	0.00	0.00	0.00	0.00	0.00	0.00
Alumni Association	61950.00	54000.00	0.00	35400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SET-1984	7648.00	69996.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	69598.00	123996.00	0.00	35400.00	0.00	10000000.00	0.00	0.00	0.00	0.00	0.00	0.00

SCHEDULE -11 : OTHER ADMINISTRATIVE EXPENSES

	<u>S/B /A/C 320 (SWF)</u>		<u>S/B/A/C 3010 (CDF)</u>		<u>S/B/A/C 3011(IDF)</u>		<u>S/B/A/C 3671 (CF)</u>	
	Previous		Previous		Previous		Previous	
	Current	Year	Current	Year	Current	Year	Current	Year
Entertainment & Hospitality	9785.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual Day Celebration	45081.00	17664.00	0.00	0.00	0.00	0.00	0.00	0.00
Honorarium	133102.00	128500.00	0.00	0.00	0.00	0.00	0.00	0.00
Misc Exp.	3230.00	52349.00	0.00	0.00	0.00	0.00	0.00	0.00
Sports & Extra Curricular activities	5632.00	16124.00	0.00	0.00	0.00	0.00	0.00	0.00
T.A to student /experts/ teching staff	8673.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Smart Card Fee.	0.00	655459.00	0.00	0.00	0.00	0.00	0.00	0.00
Salary	245587.00	22732.00	0.00	0.00	0.00	0.00	0.00	0.00
R & M office Furniture	23457.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Printing & Stationery	0.00	9480.00	0.00	0.00	0.00	0.00	0.00	0.00
Consulancy Charges	0.00	0.00	0.00	0.00	0.00	0.00	35000.00	5040.00
Outfit Allowance	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00
Advertisement Exp.	0.00	30173.00	0.00	0.00	0.00	0.00	0.00	0.00
SMS Fee	0.00	35400.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	474547.00	969081.00	0.00	0.00	0.00	0.00	35000.00	5040.00

SLIET ENTRANCE TEST

BALANCE SHEET AS ON 31.03.2009

**SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISST. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)**

BALANCE SHEET AS ON 31.03.09

LIABILITIES		Current Year	Previous Year	ASSETS		Current Year	Previous Year
CAPITAL FUND				Fixed Asset			
Op. Balance	4533373.55		9463947.00	Equipment	660129.00		
Add: Excess of Income				Facility N/C	94340.00		
Over Expenditure	3533188.00	8066561.55	-4930573.45	Furniture & Fixture	1209523.00		
Current Liability						1963992.00	1963992.00
Telephone Expenses Payable		600.00	0.00	Current Asset & Advance			
Loan & Advances				Ranvijay Singh		3000.00	3000.00
				Sarabjit Singh		50001.00	35001.00
				Karamjeet Singh		0.00	147.00
Dharampal Singh Lect.		0.25	0.00	Arvind Jayant		0.00	250.00
Kamlesh Parhad		775.00	775.00	Charanjeev Singh		0.00	18980.00
Kulwant Singh		512.00	512.00				
Manmohan Singh, Lect.		6.00	6.00	Interest Accrued On FDR		47186.00	0.00
				Closing Cash & Bank Balances			
				Sb 1984	5199035.80		1640861.55
				Sb 5221	5240.00		72435.00
				FDR			
				FDR 5221	800000.00	6004275.80	800000.00
		8068454.80	4534666.55				
						8068454.80	4534666.55

**For G.K.Garg & Associates
Chartered Accountants**

Gurinder k. Garg (FCA)
(Partner)


(Sanjay Gupta)
Jr.Accountant


**(Sanjay Gupta)
Jr.Accountant**


(Jawala Singh)
Accountant

(Jawala Singh)
Accountant


(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)

(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)


(Dr. Amarpartap Singh)
Chairman SET

SLIET ENTRANCE TEST

INCOME AND EXPENDITURE ACCOUNT FOR THE FINANCIAL YEAR ENDED 31.03.2009

SLIET ENTRANCE TEST

**SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISST. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)**

INCOME & EXPENDITURE A/C FOR THE YEAR ENDED 31.03.09

EXPENDITURE	Current Year	Previous Year	INCOME	Current Year	Previous Year
To Advertisement	1243686.00	89501.00	By Exam Fees	4367160.00	3482850.00
To Contingencies	160.00	0.00	By Interest	232872.00	276021.00
To Ent. Hospitality	76088.00	47759.00	By Sale of Prospectus	2764439.00	3014503.00
To Exam Exp.	584600.00	398087.00	By Misc. Receipts	0.00	877309.55
To Honorarium	610001.00	540254.00			
To Misc. Exp.	9710.00	1998.00	By Excess of expenditure over Income	0.00	4930573.45
To Postage Exp.	113501.00	108825.00			
To Printing & Stationary	358818.00	487147.00			
To Rep. & Maintenance	8646.00	5030.00			
To Salary SET	116492.00	233873.00			
To Salary SMS	24951.00	26255.00			
To Secret Exp.	326310.00	338400.00			
To TA/DA	349554.00	281061.00			
To Telephone Exp.	8766.00	5379.00			
To Trfd to IDF account	0.00	1000000.00			
To Faculty club exps.	0.00	4058.00			
To Petrol & Oil Exps.	0.00	13630.00			
To Excess Of Income over expenditure transferred to capital fund	3533188.00	0.00			
	7364471.00	12581257.00		7364471.00	12581257.00

For G.K.Garg & Associates
Chartered Accountants

Gurinder k. Garg (FCA)
(Partner)


(Sanjay Gupta)
Jr.Accountant


(Jawala Singh)
Accountant


(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)


(Dr. Amarpartap Singh)
Chairman SET

SLIET ENTRANCE TEST

**RECEIPT AND PAYMENT
ACCOUNT
FOR THE FINANCIAL
YEAR ENDED 31.03.2009**

SLIET ENTRANCE TEST
SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISST. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)

RECEIPTS & PAYMENT A/CFOR THE YEAR ENDED 31-3-2009

RECEIPTS	Current Year	Previous Year	PAYMENTS	Current Year	Previous Year
To Opening balance	1640861.55		Advertisement	1243686.00	89501.00
Sb 1984	72435.00		Contingencies	160.00	0.00
Sb 5221	800000.00		6339503.00 Ent. Hospitality	76088.00	47759.00
FDR 5221			251296.00 Exam Exp.	584600.00	398087.00
Exam Fees			800000.00 Honorarium	610001.00	540254.00
Interest			3482850.00 Misc. Exp.	9710.00	1998.00
Sale of Prospectus			276021.00 Postage Exp.	113501.00	108825.00
Advances			3014503.00 Printing & Stationary	358818.00	487147.00
Misc Receipts			97411.00 Rep. & Maintenance	8646.00	5030.00
			877309.55 Salary SET	116492.00	233873.00
			Salary SMS	24951.00	26255.00
			Secret Exp.	326310.00	338400.00
			TA/DA	349554.00	281061.00
			Telephone Exp.	8166.00	5379.00
			Sarabjit Singh	15000.00	0.00
			Dharampal Singh Lect	35000.00	0.00
			Faculty Club Exps.	0.00	4058.00
			Petrol & Oil Exps.	0.00	13630.00
			Institute Development Fund	0.00	1000000.00
			Faculty Club (NC)	0.00	44340.00
			By Closing Balance		
			Sb 1984	5199035.80	1640861.55
			Sb 5221	5240.00	72435.00
			FDR 5221	800000.00	800000.00
				6004275.80	
				<u>9884958.80</u>	<u>15138893.55</u>

For G.K.Garg & Associates
Chartered Accountants

Gurinder k. Garg (FCA)
(Partner)


(Sanjay Gupta)
Jr.-Accountant


(Jawala Singh)
Accountant


(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)


(Dr. Amarpartap Singh)
Chairman SET

CHIEF WARDEN BOYS HOSTEL

BALANCE SHEET AS ON 31.03.2009

CHIEF WARDEN BOYS HOSTEL

**SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISST. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)**

BALANCE SHEET AS ON 31.03.09

LIABILITIES	AMOUNT	ASSETS	AMOUNT
CAPITAL ACCOUNT -----		Loan & Advances -----	
Op. Balance	1422875.00	Advance To Mr Jagdish	500.00
Add: Excess of Income Over Expenditure	<u>411380.00</u>	Closing Cash & Bank Balances	
	1834255.00		
LOANS FOR STUDENTS -----		FDR with 798261 -----	
(As per list attach)	81460.00	with CBI	1000000.00
Outstanding Payment for Cable	10787.00	Bank A/c (273)	<u>797925.00</u>
			1797925.00
		Accrued Interest On FDR	72077.00
		Accrued Income From Mess Cont	56000.00
TOTAL	<u>1926502.00</u>	TOTAL	<u>1926502.00</u>

**For G K Garg & Associates
Chartered Accountants**

**Gurinder K. Garg (FCA)
(Partner)**


GURBAX SINGH, CARETAKER

BOYS HOSTEL NO.7


ER.JS UBHI, CHIEF WARDEN

BOYS HOSTEL

CHIEF WARDEN BOYS HOSTEL
SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISST. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)

LIST OF LOANS FOR STUDENTS AS ON 31.03.2009

SR NO.	PARTICULARS	AMOUNT
1	Mr. Prabhakar Jha	10000.00
2	Mr. Rajesh	5730.00
3	Mr. Kanhiya Lal Thakur	5730.00
4	Mr. Amit Alok	24000.00
5	Mr. Satya Parkash	12000.00
6	Mr. Prince Chandan	24000.00
TOTAL		<u>81460.00</u>

CHIEF WARDEN BOYS HOSTEL

INCOME AND EXPENDITURE ACCOUNT FOR THE FINANCIAL YEAR ENDED 31.03.2009

CHIEF WARDEN BOYS HOSTEL

**SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISST. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)**

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.09

EXPENDITURE	AMOUNT	INCOME	AMOUNT
To T.A Exps.	480.00	By Receipts from hostel no 01	17095.00
To Cable Exp.	40000.00	By Receipts from hostel no 02	29925.00
To Main. Of cycle, Rehri & Computer	10400.00	By Receipts from hostel no 03	11200.00
To Telephone Exp.	2825.00	By Receipts from hostel no 04	34675.00
To Hostel Equipment	18940.00	By Receipts from hostel no 05	26650.00
To Annual Day Celebration exp	3200.00	By Receipts from hostel no 06	19027.00
		By Receipts from hostel no 07	15465.00
		By Receipts from hostel no 08	106925.00
To Excess of Income Over Expenditure transferred to Capital Fund	411380.00	By Receipts from PG boys hostel	24850.00
		By Income from Mess cot for Utilisation of materaial	88000.00
		By Income from Chief Warden	500.00
		By Bank Intetrest	38836.00
		By Stationary Charges Collection A/c	2000.00
		By Interest On FDR	72077.00
TOTAL	487225.00	TOTAL	487225.00

For G K Garg & Associates
Chartered Accountants

Gurinder K. Garg (FCA)
(Partner)



GURBAX SINGH, CARETAKER

BOYS HOSTEL NO.7



ER.JS UBHI, CHIEF WARDEN

BOYS HOSTEL

CHIEF WARDEN BOYS HOSTEL

RECEIPT AND PAYMENT ACCOUNT FOR THE FINANCIAL YEAR ENDED 31.03.2009

CHIEF WARDEN BOYS HOSTEL
SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISST. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)

RECEIPTS & PAYMENT A/C FOR THE YEAR ENDED 31.03.09

RECEIPTS	AMOUNT	PAYMENT	AMOUNT
To Opening Balance		T.A Exps.	480.00
Bank A/c (273)	1447675.00	Cable Exp.	29213.00
		Main. Of cycle, Rehri &	
Receipts from hostel no 01	17095.00	Computer	10400.00
Receipts from hostel no 02	29925.00	Telephone Exp.	2825.00
Receipts from hostel no 03	11200.00	Hostel Equipment	18940.00
Receipts from hostel no 04	34675.00	Annual Day Celebration exp	3200.00
Receipts from hostel no 05	26650.00	AdvanceTo Mr Jagdish Chand	500.00
Receipts from hostel no 06	19027.00	Refund Of Mess Advance	
Receipts from hostel no 07	15465.00	Mr Manish Kumar Pandey	17000.00
Receipts from hostel no 08	106925.00	Refund Of Mess Advance	
Receipts from		Mr Amarkanti Bharti	24000.00
PG boys hostel	24850.00	Refund Of Mess Advance	
Refund Of Advance By Mr Raj	16500.00	Mr Nishant Bezbaruah	4000.00
Income from Mess cot for		Refund Of Mess Advance Mr deepak	8400.00
Utilisation of materaial	56000.00	Refund Of Mess Advance Mr Parbhakar Jha	11900.00
Stationary Charges Collection A/c	2000.00		
Receipts from Chief Warden	500.00	By Closing Balance	
Bank Intetrest	38836.00	Bank A/c (273)	797925.00
Receipt From Mr Parbhakar Jha As Mess Advance	10000.00	FDR L 0798261	1000000.00
Receipt From Mr kanhiya Lal As Mess Advance	5730.00		
Receipt From Mr Amit Alok As Mess Advance	24000.00		
Receipt From Mr Satya Parkash As Mess Advance	12000.00		
Receipt From Mr Prince Chanden As Mess Advance	24000.00		
Receipt From Mr Rajesh As Mess Advance	5730.00		
	<u>1928783.00</u>		<u>1928783.00</u>

For G K Garg & Associates
Chartered Accountants

Gurinder K. Garg (FCA)
(Partner)



GURBAX SINGH,CARETAKER

BOYS HOSTEL NO.7



ER.JS UBHI,CHIEF WARDEN

BOYS HOSTEL

DEVI DEEPAK MEMORIAL A/C (SLIET)

**BALANCE SHEET
AS ON 31.03.2009**

DEVI DEEPAK MEMORIAL A/C (SLIET)


SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISTT. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)

BALANCE SHEET AS ON 31.03.09

LIABILITIES	AMOUNT	ASSETS	AMOUNT
CAPITAL ACCOUNT		Closing Cash & Bank	
-----		Balances	
Op. Balance	141063.00	-----	
Add: Excess of Income		Sb 3156	71088.00
Over Expenditure	<u>7790.00</u>	FDR 3156	<u>77765.00</u>
	148853.00		148853.00
 TOTAL	 <u>148853.00</u>	 TOTAL	 <u>148853.00</u>

For G.K.Garg & Associates
Chartered Accountants

Gurinder k. Garg (FCA)
(Partner)


(Sanjiv Kumar Jain)
Jr.Accountant


(Sanjay Aneja)
Accountant


(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)


(Dr. Varinder Sahni)
Director Incharge

DEVI DEEPAK MEMORIAL A/C (SLIET)

**INCOME AND EXPENDITURE
ACCOUNT FOR THE
FINANCIAL YEAR ENDED
31.03.2009**

DEVI DEEPAK MEMORIAL A/C (SLIET)


**SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISTT. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)**

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.09

EXPENDITURE	AMOUNT	INCOME	AMOUNT
To Excess Of Income Over Expenditure transferred to Capital Fund	7790.00	By Interest	7790.00
TOTAL	7790.00	TOTAL	7790.00

For G.K.Garg & Associates
Chartered Accountants

Gurinder k. Garg (FCA)
(Partner)


(Sanjiv Kumar Jain)
Jr.Accountant


(Sanjay Aneja)
Accountant


(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)


(Dr. Varinder Sahni)
Director Incharge

DEVI DEEPAK MEMORIAL A/C (SLIET)

**RECEIPT AND PAYMENT
ACCOUNT
FOR THE FINANCIAL
YEAR ENDED 31.03.2009**

DEVI DEEPAK MEMORIAL A/C (SLIET)


**SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISTT. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)**

RECEIPTS & PAYMENT A/C FOR THE YEAR ENDED 31-3-2009

RECEIPTS	AMOUNT	PAYMENT	AMOUNT
To Opening Balance		By Closing Balance	
S/B A/c 3156	63318.00	S/B A/c 3156	71088.00
FDR 3156	<u>77745.00</u>	FDR 3156	<u>77765.00</u>
	141063.00		148853.00
Interest A/c			
	7790.00		
 TOTAL	 <u>148853.00</u>	 TOTAL	 <u>148853.00</u>

For G.K.Garg & Associates
Chartered Accountants

Gurinder k. Garg (FCA)
(Partner)


(Sanjiv Kumar Jain)
Jr.Accountant


(Sanjay Aneja)
Accountant


(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)


(Dr. Varinder Sahni)
Director Incharge

SLIET MODEL SCHOOL

BALANCE SHEET AS ON 31.03.2009

SLIET MODEL SCHOOL

**SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISST. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)**

BALANCE SHEET AS ON 31.03.09

LIABILITIES	AMOUNT	ASSETS	AMOUNT
CAPITAL ACCOUNT			

Op. Balance	1084950.00	Furniture & Fixture	18281.25
Add: Excess of Income			
Over Expenditure	<u>134169.00</u>	Closing Cash & Bank	
	1219119.00	Balances	
		BANK A/c No 3801	1074734.00
Security Fund	83000.00	BANK A/c No 3805	<u>227385.00</u>
			1302119.00
Sundry Creditors	18281.25		
For Furniture & Fixture			
TOTAL	<u><u>1320400.25</u></u>	TOTAL	<u><u>1320400.25</u></u>

For G K Garg & Associates
Chartered Accountants

Gurinder K. Garg (FCA)
(Partner)


(Mrs Sharanjit Kaur)
Incharge, SMS


(Dr. P.K. Singh)
Chairman SMS

SLIET MODEL SCHOOL

**INCOME AND EXPENDITURE
ACCOUNT FOR THE
FINANCIAL YEAR ENDED
31.03.2009**

SLIET MODEL SCHOOL

**SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISST. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)**

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.09

EXPENDITURE	AMOUNT	INCOME	AMOUNT
To Printing & Stationary	69206.00	By Prospectus Fees	6000.00
To Petrol Oil & lubricant	95870.00	By Library Fund	18600.00
To Encyclopedia books, cd's & Toys	32027.00	By Development Fund	88200.00
To Baby Chairs	8250.00	By Admission Fees	36400.00
To Annual Day Exp.	19852.00	By Regd Fee.	8900.00
To Misc Expenses	3525.00	By Sports Fund	11700.00
To Security Refunded	10000.00	By Health Fund	6900.00
To Amount Tranf to A/c No 540	597715.00	By Tution Fee	505670.00
To Amount Tranf to A/c No 3010	34440.00	By Computer Fees	33600.00
		By Re-Adimission Fees	4200.00
		By Late Fee Fine	9350.00
To Excess Of Income Over Expenditure transferred to Capital Fund	134169.00	By Exam Fund & Report Card	15150.00
		By Diary Charges	11750.00
		By Annual Day	11700.00
		By Assigment & Paper Avtivity Fund	15150.00
		By I/Card Money	5850.00
		By Misc Receipt	166375.00
		By Interest A/c (3801)	35364.00
		By Interest A/c (3805)	14195.00
TOTAL	1005054.00	TOTAL	1005054.00

For G K Garg & Associates
Chartered Accountants

Gurinder K. Garg (FCA)
(Partner)



(Mrs Sharanjit Kaur)
Incharge, SMS



(Dr.P.K.Singh)
Chairman SMS

SLIET MODEL SCHOOL

**RECEIPT AND PAYMENT
ACCOUNT
FOR THE FINANCIAL
YEAR ENDED 31.03.2009**

SLIET MODEL SCHOOL
SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISST. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)
RECEIPTS & PAYMENT A/C FOR THE YEAR ENDED 31.03.09

RECEIPTS	AMOUNT	PAYMENTS	AMOUNT
TO OPENING BALANCE		Printing & Stationary	69206.00
BANK A/c No 3801	929325.00	Petrol Oil & lubricant	95870.00
BANK A/c No 3805	<u>155625.00</u>	Encyclopedia books,	
Prospectus Fees	6000.00	cd's & Toys	32027.00
Library Fund	18600.00	Baby Chairs	8250.00
Development Fund	88200.00	Annual Day Exp.	19852.00
Security Fund	83000.00	Misc Expenses	3525.00
Admission Fees	36400.00	Security Refund	10000.00
Regd Fee.	8900.00	Amount Tranf To A/c No 540	597715.00
Sports Fund	11700.00	Amount Tranf To A/c No 3010	34440.00
Health Fund	6900.00	By Closing Balance	
Tution Fee	505670.00	BANK A/c No 3801	1074734.00
Computer Fees	33600.00	BANK A/c No 3805	<u>227385.00</u>
Re-Adimission Fees	4200.00		1302119.00
Late Fee Fine	9350.00		
Exam Fund & Report Card	15150.00		
Diary Charges	11750.00		
Annual Day Fund	11700.00		
Assignment & Paper Activity Fund	15150.00		
I/Card Money	5850.00		
Misc Receipt	166375.00		
Interest A/c (3801)	35364.00		
Interest A/c (3805)	14195.00		
TOTAL	<u>2173004.00</u>	TOTAL	<u>2173004.00</u>

For G K Garg & Associates
Chartered Accountants

Gurinder K. Garg (FCA)
(Partner)


(Mrs Sharanjit Kaur)
Incharge, SMS


(Dr. P.K. Singh)
Chairman SMS

GIRL HOSTEL 1 & 2

BALANCE SHEET AS ON 31.03.2009

BALANCE SHEET AS ON 31.03.09

LIABILITIES		AMOUNT	ASSETS	AMOUNT
CAPITAL ACCOUNT			Closing Cash & Bank	
-----			<u>Balances</u>	
Op. Balance	814955.11		S/B A/c CBI 1688332378	271618.25
Add: Excess of Income			S/B A/c OBC 07972010000300	135829.86
Over Expenditure	<u>75715.00</u>	890670.11	FDR with CBI L0798475	216029.00
			FDR with CBI L0798161	228997.00
			Accrued Interest On FDR L 07978475	5660.00
			Accrued Interest On FDR L 07978161	32536.00
		<u>890670.11</u>		<u>890670.11</u>


(Charanjit Kaur)
Sen. Clerk

GIRL HOSTEL 1 & 2

INCOME AND EXPENDITURE ACCOUNT FOR THE FINANCIAL YEAR ENDED 31.03.2009

GIRL HOSTEL 1& 2
SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISST. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.09

EXPENDITURE	AMOUNT	INCOME	AMOUNT
To Welfare Expenses	10073.00	By Interest ON FDR	46294.00
		By Interest ON CBI	9051.00
To Excess Of Income Over Expenditure		By Interest ON OBC	4632.00
transferred to Capital Fund	75715.00	BY Fine	15671.00
		By Accomodation	10140.00
	<u>85788.00</u>		<u>85788.00</u>

For G.K.Garg & Associates
Chartered Accountants

Gurinder k. Garg (FCA)
(Partner)


(Charanjit Kaur)
Sen. Clerk

GIRL HOSTEL 1 & 2

**RECEIPT AND PAYMENT
ACCOUNT
FOR THE FINANCIAL
YEAR ENDED 31.03.2009**

**GIRL HOSTEL 1& 2
SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISST. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)**

RECEIPTS & PYMENT A/C FOR THE YEAR ENDED 31.03.09

RECEIPTS	AMOUNT	PAYMENTS	AMOUNT
To Opening balance Of cash & bank			
		Welfare Expenses	10073.00
S/B A/c CBI 1688332378	246829.25		
S/B A/c OBC 07972010000300	131197.86	By Closing balance Of cash & bank	
FDR with CBI L0798475	197100.00		
FDR with CBI L0798161	<u>228997.00</u>	S/B A/c CBI 1688332378	271618.25
	804124.11	S/B A/c OBC 07972010000300	135829.86
		FDR with CBI L0798475	216029.00
		FDR with CBI L0798161	<u>228997.00</u>
			852474.11
Interest ON FDR	18929.00		
Interest ON CBI	9051.00		
Interest ON OBC	4632.00		
Fine	15671.00		
Accomodation	10140.00		
	<u>862547.11</u>		<u>862547.11</u>

For G.K.Garg & Associates
Chartered Accountants

Gurinder k. Garg (FCA)
(Partner)


(Charanjit Kaur)
Sen. Clerk

POOR AID FUND FOR NEEDY STUDENT (SLIET)

BALANCE SHEET AS ON 31.03.2009

POOR AID FUND FOR NEEDY STUDENT(SLIET)

SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISTT. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)

BALANCE SHEET AS ON 31.03.09

LIABILITIES	AMOUNT	ASSETS	AMOUNT
CAPITAL ACCOUNT		LOAN & ADVANCES	
-----		-----	
Op. Balance	283656.00	LOAN FOR STUDY	15000.00
Add: Excess of Income			
Over Expenditure	<u>14459.00</u>		
	298115.00	Closing Cash & Bank	
		Balances	

		SB 3884	83115.00
		FDR 3884	<u>200000.00</u>
			283115.00
TOTAL		<u>298115.00</u> TOTAL	<u>298115.00</u>

For G.K.Garg & Associates
Chartered Accountants


(Sanjay Kumar Jain) (Sanjay Aneja)

Jr.Accountant

Accountant



(Rakesh Mishra)

Deputy Registrar

(Accounts & Audit)



(Dr. Varinder Sahni)

Director Incharge

Gurinder k. Garg (FCA)
(Partner)

**POOR AID FUND FOR NEEDY
STUDENT (SLIET)**

**INCOME AND EXPENDITURE
ACCOUNT FOR THE
FINANCIAL YEAR ENDED
31.03.2009**

POOR AID FUND FOR NEEDY STUDENT(SLIET)

SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISTT. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.09

EXPENDITURE	AMOUNT INCOME	AMOUNT
To Financial Assistance	By Interest on FDR 35000.00 By Interest on Saving A/c	46642.00 2817.00
To Excess Of Income Over Expenditure transferred to Capital Fund	14459.00	
TOTAL	49459.00 TOTAL	49459.00

For G.K.Garg & Associates
Chartered Accountants

Gurinder k. Garg (FCA)
(Partner)


(Sanjay Kumar Jain) Jr.Accountant


(Sanjay Aneja) Accountant


(Rakesh Mishra) Deputy Registrar
(Accounts & Audit)


(Dr. Varinder Sahni) Director Incharge

**POOR AID FUND FOR NEEDY
STUDENT (SLIET)**

**RECEIPT AND PAYMENT
ACCOUNT
FOR THE FINANCIAL
YEAR ENDED 31.03.2009**

POOR AID FUND FOR NEEDY STUDENT(SLIET)

SANT LONGOWAL INSTITUTE OF ENGG. & TECHNOLOGY,
LONGOWAL, DISTT. SANGRUR (PUNJAB)
(DEEMED-TO-BE-UNIVERSITY)

RECEIPTS & PAYMENT A/C FOR THE YEAR ENDED 31-3-2009

RECEIPTS	AMOUNT PAYMENT	AMOUNT
To Opening Balance	Financial Assistance	35000.00
S/B A/c 3884	Loan For Study	15000.00
FDR 3884	283656.00	
	By Closing Balance	
Interest On FDR	46642.00 S/B A/c 3884	83115.00
Interest On S/B A/c	2817.00 FDR 3884	200000.00
TOTAL	333115.00 TOTAL	333115.00

For G.K.Garg & Associates
Chartered Accountants

Gurinder k. Garg (FCA)
(Partner)

(Sanjiv Kumar Jain) (Sanjay Aneja)
Jr.Accountant Accountant

(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)

(Dr. Varinder Sahni)
Director Incharge

SCHEDULE - "20" NOTES ON ACCOUNTS

NOTES OF ACCOUNTS

1. There are total outstanding advances as on 31.03.2009 of Rs 10153485/- which are subject to adjustment of expenses against passing of bills. The same are under process and yet to be finalized.
2. Accounts have been converted from cash system to accrual system. All the expenses and income which have come to the notice of management upto 31.03.2009 has been accounted for on the basis of accrual system.
3. The closing stock of mechanical engineering department has been shown by considering purchase of Rs.40101/- current financial year and expenses has not been shown for want of complete physical verification report from concerned department.
4. Academics receipts of current year has been divided into two parts i.e. academic fees and admn fees but in the previous year figures the same has been shown as consolidated.
5. Any retirement dues i.e gratuity etc has been considered on cash basis.
6. The amount shown in the statement of accounts is in Indian Rupees.
7. Creation of sinking fund has been approved by the BOG/Finance committee and MHRD, Govt. of India. The funds will be utilized to replace the obsolete/unserviceable assets which are required to be written off by the technical Expert Committee constituted by the competent authority.
8. A sum of Rs. 190380/- is yet to be adjusted against the letter of credit opened in the year 2001-02

9. As per best of our information and as explained to us an incident of major fore occurred in the month of april 2008 that damaged the institute's EPBAX/ Telephone exchange valuing Rs. 45.07. The amount is yet to be written off and the same will effect the financial picture of the institute to the extent of Rs. 45.07 lacs.
10. As balance sheet of Chief warden, Boys Hostel, Devi Deepak Memorial Afc, Sliet Model School, Girls Hostel 1 & 2 and Poor aid fund for needy student is drawn for the very first time, hence only opening cash & bank balances has been taken as capital fund.
11. Previous year figures pertains to only Grant in Aid 540 account, Student welfare fund(S WF) & Sliet Entrance test (SET)

SCHEDULE -"21" SIGNIFICANT ACCOUNTING POLICIES

1. Accounts have been converted from cash system to accrual system. All the expenses and income which have come to the notice of management upto 31.03.2009 has been accounted for on the basis of accrual system.
2. Stores, spares and consumables have been valued at cost price.
3. No depreciation has been charged to fixed assets. Process of charging depreciation from the inception of the SLIET institute has been outsourced to the firm of Chartered Accountants and same is under process.

For G.K.Garg & Associates
Chartered Accountants


(Sanjay Gupta)
jr. Accountant


(Jawala Singh)
Accountant


(Rakesh Mishra)
Deputy Registrar
(Accounts & Audit)


(Dr. Varinder Sahni)
Director Incharge

Gurinder k. Garg (FCA)
(Partner)



TEL/FAX-0172-2703149
**INDIAN AUDIT AND ACCOUNTS
 DEPARTMENT**

**Office of the Pr. Accountant General (Audit) Punjab
 Sector 17, Chandigarh-160 017**

NO.CAW/DBC/SLIET/2008-09/2009-10/240
 Dated: 11-12-2009.

To

Secretary to Government of India,
 Ministry of Human Resource and Development,
 Department of Education,
 New Delhi.

**Subject: - Certification of the Accounts of Sant Longowal Institute of
 Engineering and Technology, Longowal (District Sangrur)**

Sir,

I am to enclose a copy of the Separate Audit Report along with Annexure and Management Letter on the Accounts of Sant Longowal Institute of Engineering and Technology, Longowal (District Sangrur) for the year ended 31 March 2009 for necessary action at your end.

The Audit Report may please be kept confidential till its presentation to the both houses of parliament. The date of presentation of the report to both the houses of Parliament may please be intimated.

Yours faithfully,

Sd/-

Deputy Accountant General (Commercial)

Encl: As above

Copy of the above along with copy of the Audit Report referred to above is forwarded to The Director, Sant Longowal Institute of Engineering and Technology, Longowal (District Sangrur) for information and necessary action. The Audit Report may please be kept confidential till its presentation to both the houses of parliament. The date of presentation of the report to the both houses of parliament may please be intimated.

Amarjeet

Deputy Accountant General (Commercial)

Encl: As above

DR(AA)

Separate Audit Report of the Comptroller and Auditor General of India on the Accounts of Sant Longowal Institute of Engineering and Technology, Longowal for the year ended 31 March 2009.

We have audited the attached Balance Sheet of Sant Longowal Institute of Engineering and Technology, Longowal as at 31 March 2009 and the Income & Expenditure Account/Receipts & Payment Account for the year ended on that date under Section 20(1) of the Comptroller and Auditor General's (Duties, Power & Conditions of Service) Act, 1971 read with clause 33 (V) of Memorandum of Association (MOA) of SLIET. The audit has been entrusted for the period upto 2009-10. These financial statements are the responsibility of the Institute's management. Our responsibility is to express an opinion on these financial statements based on our audit.

2. This separate Audit Report contains the comments of the Comptroller and Auditor General of India (CAG) on the accounting treatment only with regard to classification, conformity with the best accounting practices, accounting standards and disclosure norms, etc. Audit observations on financial transactions with regard to compliance with the law, Rules & Regulations (Propriety and Regularity) and efficiency-cum-performance aspects, etc., if any are reported through Inspection Reports/CAG's Audit Reports separately.

3. We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidences supporting the

amounts and disclosure in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

Based on our audit, we report that:

- i We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit;
- ii The Balance Sheet and Income & Expenditure Account/Receipt & Payment Account dealt with by this report have been drawn up in the format prescribed by Government of India.
- iii In our opinion, proper books of accounts and other relevant records have been maintained by the Sant Longowal Institute of Engineering and Technology, Longowal in so far as it appears from our examination of such books.

iv We further report that:

2 Comments on Accounts

A Balance Sheet

A.1 Current liabilities & Provisions (Schedule-24)

A.1.1 540 Main (Grant in Aid A/c)

A.1.1.1 Current Liabilities-CPF interest (Schedule-5)

(i) CPF interest of Rs.1.44 crore represents gain of interest on CPF investments. Opening balance of gain on CPF interest was Rs. 41.33 lakh. After incorporating interest of Rs. 190.65 lakh earned on CPF investments and providing liability of Rs. 87.75 lakh payable to employees, gain of interest on CPF investments was worked out to Rs. 1.44 crore. This gain should have been accounted for in Earmarked/Endowment Funds (CPF Reserve). This has resulted in overstatement of current liabilities and understatement of Earmarked/Endowment Funds to the extent of Rs. 1.44 crore.

(ii) Outstanding expenses of Rs.70.22 lakh do not include Rs.37.23 lakh on account of revised rates of transport allowance to physically handicapped employees for the period September 2008 to March 2009 (Rs.0.26 lakh); installments of increased dearness allowance for the period July 2008 to March 2009 (Rs.28.91 lakh); and interim payment of arrear against revision of pay scales to the faculty of the Institute as decided by MHRD in February.2009 (Rs.8.06 lakh). This has resulted in under statement of current liabilities and establishment expenses to the extent of Rs.37.23 lakh.

A.2 Fixed Assets – Rs. 94.19 Crore (Schedule-25)

A.2.1 540 Main (Grant in Aid A/c)-(Schedule-6)

A.2.1.1 Fixed Assets-Minor Work

It includes an expenditure of Rs.5.56 lakh incurred on external painting of three buildings, numbering of trees in the Campus, strengthening of a pathway and replacement of damaged gloo mentriators in workshop. This has resulted in overstatement of Fixed Assets and understatement of Administrative expenses (Maintenance & repair) to the extent of Rs.5.56 lakh.

B Grant-in-aid

Government of India released grant-in-aid of Rs. 17.79 crore and after incorporating opening balance of Rs. 3.19 crore and current year income of Rs. 6.73 crore, the Institute could utilize a sum of Rs. 24.26 crore leaving a balance of Rs. 3.45 crore as unutilized grant as on 31 March 2009.

v Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income & Expenditure Account/Receipt & Payment Account dealt with by this report are in agreement with the books of accounts.

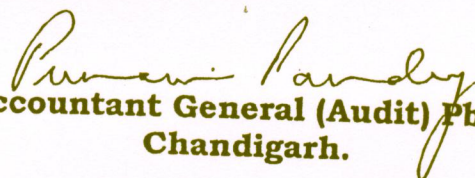
vi In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts, and subject to the significant matters stated above and other matters mentioned in Annexure-1 to this Audit Report give a true and fair view in

conformity with accounting principles generally accepted in India:

- a. In so far as it relates to the Balance Sheet, of the state of affairs of the Sant Longowal Institute of Engineering and Technology, Longowal as at 31 March 2009 ; and
- b. In so far as it relates to Income & Expenditure Account of the surplus for the year ended on that date.

**For and on behalf of the Comptroller & Auditor
General of India**

Date: 9th Dec. 2009.
Place: Chandigarh.


**Accountant General (Audit) Pb. and U.T.
Chandigarh.**

Annexure-1 to Audit Report

1 Adequacy of Internal Audit System

The BOG of SLIET decided (February 1991) to introduce an Internal Audit in the Institute. with the main objectives to ascertain the effectiveness of the internal control system in SLIET and to suggest ways and means to improve upon the system; ensure the judicious utilisation of grant-in-aid and to point out the cases involving irregular, extravagant, wasteful and uneconomical expenditure; and conduct period verification of stores. Audit, however, observed that Internal Audit Cell in SLIET has been established so far (July 2009).

2 Adequacy of Internal Control System

Internal control is inadequate in comparison to the size and nature of the Institute.

3 System of Physical verification of fixed assets

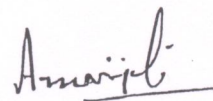
Fixed Assets are physically verified once in a year.

4 System of Physical verification of Inventory

Inventories are physically verified once in a year.

5 Regularity in payment of statutory dues

Institute is regular in payment of statutory dues.



Deputy Accountant General (C)



INDIAN AUDIT AND ACCOUNTS DEPARTMENT

O/o Pr. Accountant General (Audit) Punjab,

Sector 17, Chandigarh-160 017,

No. CW/ DBC/ Mgt. letter/ 2008-09/2009-10/241

Dated 11-12-2009, 2009.

To

The Director,
Sant Longowal Institute of Engineering and Technology, Longowal,
Sangrur.

Subject: Management Letter

Sir,

While conducting audit of Balance Sheet audit of the Institute for the year 2008-09, following deficiencies were noticed which need to be corrected:

Accounting policies

Non disclosure of certain facts

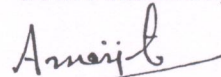
- (i) The Institute has land measuring 447 acres, zero canals and 12 marlas which had been provided by the Punjab Government free of cost. The tentative cost of this land as intimated by the revenue authorities was Rs.3.66 crore subject to increase by owners for encashment of compensation, interest etc. The State Government has filed an appeal in the High Court regarding enhanced amount of compensation, but Government of India/ Institute has no liability in this case whatsoever. This fact has not been disclosed.
- (ii) A reference of "Schedule-20 Notes on Accounts" and "Schedule-21 Significant Accounting policies" has not been mentioned below the Financial Statements.

Any other observation on the functioning of the Institute which suggests a significant risk to financial reporting

Though the provisions of the Employees' Provident Funds and Miscellaneous Provisions Act, 1952 were applicable on SLIET, the Institute had been maintaining its own Contributory Provident Fund for its employees by framing (February 1990) its own Contributory Provident Fund-cum-Gratuity Rules (yet to be approved by MHRD) without obtaining any exemption, from the Competent Authority, for the operation of the Act. The

fund had accumulated to Rs. 13.44 crore as on 31 March 2009 and the Institute might attract penalty at the rate ranging between 17 and 37 per cent of the Fund amount under paragraph 32 A of the Employees' Provident Funds Scheme, 1952.

Yours faithfully,



Deputy Accountant General(Commercial)