

SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY



INTERNAL QUALITY ASSURANCE CELL (IQAC)



ANNUAL REPORT 2022-2023




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Sri Indu College of Engineering and Technology
(VII): SHERGUDA-501 54.0,
Ibrahimpatnam(M), R.R.Dist.

IQAC Annual Report 2022-23

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ABOUT SOCIETY

New Loyola Model Education Society has been formed in 1979 with a Vision for future to set up and promote such educational Institutions of excellence that would reorient general, technical and professional education with a holistic approach. Assimilating the advances made in various areas of activity and considering the educational needs of the region, many institutions dealing with various academic disciplines have been started.

It was registered under Andhra Pradesh Societies Registration ACT 1350 Fasli (Act I of 1350 F.) with certificate of Registration on 23-08-1979 bearing registration number 851 of 1979 issued by Registrar of Societies, Hyderabad.

Inspired by the need of quality and disciplined education the promoters started the first educational institution NEW LOYOLA MODEL HIGH SCHOOL in the year 1979 at Vanasthalipuram, Hyderabad, Ranga Reddy Dist., The society is non- profit organization for the development of education at all levels. ACT 1350 Fasli (Act I of 1350 F.) with certificate of Registration on 23-08-1979 bearing registration number 851 of 1979 issued by Registrar of Societies, Hyderabad.

The promoting body comprises the following Academicians, Industrialists and Businessmen.

S. No.	Name of Promoter	Designation	Address
1	Mr.R. Venkat Rao (Philanthropist)	President	Plot No. 40, HIG, Phase-IV, Vanasthalipuram, Hyderabad - 500070
2	Mr. J. Devi Prasad (Educationist)	Vice-President	
3	Mr. R. Anup Chakravarthi (Educationist)	Secretary	
4	Mr. J. Divya (Educationist)	Jt. Secretary	
5	Mrs. R. Indumathi (Business)	Treasurer	
6.	Mr. J. Srikar (Industrialist)	Member	
7.	Mr. R. Prabhakar (Social Worker)	Member	



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About the Institute

Vision

To be a premier institution in engineering & technology and management with competence, values and social consciousness."

Mission

IM1: Provide high quality academic programmes, training activities and research facilities.

IM2: Promote continuous industry-institute interaction for employability, entrepreneurship, leadership and research aptitude among stakeholders.

IM3: Contribute to the economic and technological development of the region, state and nation.



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No of Courses with Intake

LIST OF UG – B.TECH. PROGRAMMES

Sl. No.	Name of the Programme	Duration	Year of Commencement	Sanctioned Intake
1	CIVIL ENGINEERING	4 Years	2009	30
2	ELECTRICAL & ELECTRONICS ENGINEERING	4 Years	2001	30
3	MECHANICAL ENGINEERING	4 Years	2005	30
4	ELECTRONICS & COMMUNICATION ENGINEERING	4 Years	2001	120
5	COMPUTER SCIENCE & ENGINEERING	4 Years	2001	240
6	INFORMATION TECHNOLOGY	4 Years	2001	60
7	COMPUTER SCIENCE AND INFORMATION TECHNOLOGY	4 Years	2020	60
8	CSE (DATA SCIENCE)	4 Years	2020	150
9	CSE (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)	4 Years	2020	180
10	CSE (CYBER SECURITY)	4 Years	2020	60
11	CSE – INTERNET OF THINGS (IoT)	4 Years	2020	60
12	ARTIFICIAL INTELLIGENCE & DATA SCIENCE	4 Years	2021	60

LIST OF UG – B.TECH. PROGRAMMES

Sl. No.	Name of the Programme	Duration	Year of Commencement	Sanctioned Intake
1	COMPUTER SCIENCE & ENGINEERING	2 Years	2007	36
2	EMBEDDED SYSTEMS	2 Years	2011	09



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INTERNAL QUALITY ASSURANCE CELL

The Internal Quality Assurance Cell (IQAC) of SICET was established in order to ensure quality sustenance and enhancement of quality initiatives of the Institute. IQAC of SICTE is constituted as per the as per the guidelines provided by NAAC. IQAC helps in building a quality culture within the Institute at all levels including various stake holders.

Objectives

The Primary aim of IQAC is

- To develop a system for conscious, consistent, and catalytic action to improve the academic and administrative performance of the institution.
- To create a good quality culture
- To channelize the efforts and measures of the institution towards academic excellence.
- IQAC helps in planning, guiding and monitoring Quality Assurance (QA) activities of the colleges.

Strategies

- Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks.
- Optimization and integration of modern methods of teaching and learning.
- To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.
- The relevance and quality of academic and research programmes.
- The credibility of evaluation procedures.
- IQAC of SICET conducts minimum 3 to 4 meeting to plan and review various activities.
-

Functions

Some of the functions expected of the IQAC are

- Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution.

- Organization of workshops, seminars on quality-related themes and promotion of quality circles.
- Development of Quality Culture in the institution.
- Dissemination of information on the various quality parameters of higher education.
- Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes.
- Acting as a nodal agency of the institution for quality-related activities.
- Preparation of the Annual Quality Assurance Report (AQAR) to be submitted to NAAC based on the quality parameters.

Some of the Initiatives taken by IQAC are

IQAC of SICET has taken steps in Institutionalizing various quality assurance strategies and processes by continuously monitoring the teaching learning process.

Some of the Key aspects to mention are:

1. Motivating Faculty and Students to participate in NPTEL like MOOC Courses. To Encourage this, Fee reimbursement has been implemented. Also it has been given choice in the Regulations for students to opt for credit transfer against elective courses in the regulations.
2. Based on the observations in the past years a detailed checklist has been prepared for the preparation Course File for each subject in consultation with all the senior faculty.
3. A Procedure has been devised to prepare Handouts for all the subjects in a particular semester.
4. Workshops are conducted on regular basis for calculating the Course Outcomes and Attainments.
5. CO-PO Attainment Awareness is created through the PAC and DAC of the departments
6. Target Value for the current year is arrived based on previous year attainments and targets. Attainments on outcomes of each course is calculated based on Direct and Indirect Attainments. Attainments is to be calculate scriptwise questionwise for Internal Assessments. The overall Attainment is calculated as 80- 20 % of Direct and Indirect Attainments respectively.

7. The Overall Outcomes of each batch is calculated and necessary inputs were obtained to make improvements in the forthcoming years
8. To improve the performance of students in placement , necessary advise given for the conduct CRT Programmes which includes company specific trainings, weekly Aptitude test, Comprehension Viva part of regular course work to be conducted on weekly basis etc
9. To conduct Competitive exam training classes
10. To Conduct awareness on Higher Studies
11. To Conduct verification on standards of Mid Examination Question Papers
12. To Implement Revised Blooms Taxonomy Level in all Exam Question Papers
13. All Question Papers must also include the specific Cos
14. To Prepare and submit Question Banks with Cos and RBT Levels
15. Result Processing should be completed within 15 days from the date of Last Examination and to be submitted for university approval
16. Regulations and syllabus should be updated whenever there is and requirement or once in 2 years
17. NEP should be included and implemented wherever there is a possibility
18. To Enhance students creative thinking and Innovative Ideas Hackathons to be conducted once in a year
19. Project Expos to be planned once in a semester
20. Technotsav and cultural events to be conducted in a manner which will make the students skills exposed to a greater extent
21. Regular Training programme and workshops on recent technologies should be executed by the Departments
22. To make the students societal consciousness, Outreach programmes on various topics which is need for the general publics to be executed. This helps students to learn the importance of being social conscience.
23. Derived the action plan for Participation in NIRF, ARIIA, Times Report and on various other Ranking systems
24. Planned and Executed various Academic Audits, ISO, Green Audit etc
25. Timely Submission of various Reports to the AICTE, UGC, University, NAAC

26. To inform parents about the progress of their wards
27. To organise Technical Club Activities
28. Faculty Retention should be ensured
29. To encourage Faculty to undertake consultancy services and also to increase contribution towards research publications
30. To Inculcate outcome based approach by innovative teaching methodologies

Achievements in the Academic Year 2022-23

Admission:

Enrolment percentage

2022-23			
Programme name	Programme Code	Number of seats sanctioned	Number of Students admitted
CIVIL ENGG.	1	30	11
EEE	2	30	21
MECHANICAL ENGG.	3	30	6
ECE	4	120	129
CSE	5	240	256
IT	12	60	63
CSIT	33	60	64
CSE (DS)	67	120	128
CSE (AI&ML)	66	120	129
CSE(IoT)	69	60	65
CSE(CS)	62	90	96
AI&DS	72	120	128
M.TECH. – CSE	58	18	6
M.TECH. – CS	5	18+18	NIL
M.TECH. – ES	55	18	0
TOTAL			1102

Year	Number of seats earmarked for reserved category as per GOI or State Government rule					Number of students admitted from the reserved category				
	SC	ST	OBC	Gen	Others	SC	ST	OBC	Gen	Others
2022-2023	166	67	321	550	0	131	67	321	583	0

No. of Final Year Outgoing students: 881

Faculty Count :263

All Applicable Rankings : NBA, Times Ranking, MHW Ranking, OBE Ranking, NIRF Ranking 151-300 Band, IIRF Ranking "Diamond Band"

MOUs :52

No. of Students benefitted through scholarship:2680

Faculty Participation list

Details	Numbers
FDP including NPTEL	163
Workshops	169
Conference/ Seminars	203

Student Participation

Details	Numbers
SDTP including NPTEL	408
Workshops	1280
Conference/ Seminars	2380
Project Expo	350
Number of students qualifying in state/ national/ international level examinations	152
Number of awards/medals for outstanding performance in sports	32

Events Organized lists

LIST OF ACTIVITIES ORGANIZED (2022-23)

S.No	Event Name	CELL/ Department	Event Date	No. of Beneficiaries
1	The AI Trivia Show down: A quiz to Explore with AI	AI Club/AIML	28-08-2023	472
2	Seminar on Hiring Strategy in Emerging Tech World	Training & Placement Cell	25-08-2023	195

3	FDP on How to Read and Write a Research Paper	R & D Cell / CSE	14-08-2023	123
4	Seminar on Career Guidance	Training & Placement Cell	07-07-2023	201
5	Workshop on Python Programming with Real time Applications	CSE	22-06-2023 & 23-06-2023	450
6	AI Club Inauguration	AIML	09-06-2023	100
7	Environment Day	H&S	05-06-2023	109
8	Cyber Club Inauguration on National Technology Day	CS	11-05-2023	80
9	NAVA PRAUDYOGIKI PRADARSHANI-2.0	S-HUB	04-05-2023	213
10	21st TECHNOSTHAV- National Level Technical Symposium	IIC	11-03-2023	320
11	C Language MCQ QUIZ(ONLINE)	CODEX CODE CLUB	27-02-2023	372
12	MCQ QUIZ(ONLINE)	CODEX CODE CLUB	24-02-2023	313
13	Workshop on Reinforcement Learning Through Multiarmed Bandits	Data Science	23-02-2023	165
14	My Story - Motivational Session by Successful Innovators	IIC	22-02-2023	220
15	Problem Solving and Ideation Workshop	S-HUB	16-02-2023	65
16	Brace Yourself - Symposium	CODEX CODE CLUB	10-01-2023	100
17	EXCELR Orientation on EDL Program	Data Science	30-12-2022	179
18	NPTEL AWARENESS PROGRAMME	CSE & Allied Branches	30-12-2022	195
19	EXCELLENCIA 2022- - Symposium	CSI STUDENT CHAPTER	16-12-2022	160

20	Being the Hacker presented on cyber tools	CODEX CODE CLUB	16-12-2022	150
21	Hands on session on Data Visualization with tableau	CODEX CODE CLUB	15-12-2022	180
22	ADOT– 2K22 (Another Dimension Of Tech)-Technical Symposium	IOT	09-12-2022	180
23	Event on International Day for the Elimination of Violence against Women	ECE	25-11-2022	100
24	Bright Minds Ideathon'22	CSE	15-11-2022	68
25	Workshop on Infinite Innovations with IoT	CSE & IoT	12-11-2022	200
26	Workshop on Intellectual Property Rights	CSE	26-10-2022	206
27	TechAstra'22	DATA SCIENCE	21-10-2022	386
28	National Level Technical Symposium on Emerging Trends on Industrial IoT and Cyber Security Issues- INDUiwai'22	ECE	23-09-2022 & 24-09-2022	150
29	Session on Reinforcement Learning in Networking	CSE Allied Branches	21-09-2022	155
30	Coding Contest	CSE & Allied Branches	15-09-2022	184
31	Essay Writing Competition on Innovation & Entrepreneurship	IIC	25-08-2022	98
32	Session on Accelerators/Incubation - Opportunities for Students & Faculties - Early Stage Entrepreneurs	IIC	19-08-2022	108

33	NPTEL LOCAL CHAPTER AWARENESS E-WORKSHOP	CSE	30-06-2022	186
34	OUT OF THE BOX THINKING FOR PROBLEM SOLVING	IIC	28-06-2022	165
35	Workshop on "Intellectual Property Rights (IPR) & Patents and Design Filing Process	IPR CELL	28-06-2022	125
36	Seminar on Higher Education opportunities and Process	Training & Placement Cell	28-06-2022	200
37	Awareness on Indian Space Program	ECE	08-06-2022	200

OUTREACH ACTIVITIES 2022-2023

S. No	Name of the activity	Organizing unit/ Forum/ collaborating agency	Date of the activity DD-MM-YYYY	Number of students participated
1	Outreach Program on Cyber Suraksha	CSI Chapter	07.10.2023	120
2.	Independence Day Celebration for Awareness	SICET	15.08.2023	60
3	Tree Plantation And Water Harvesting	Spoorthi Jyothi Foundation	26.05.2023	22
4	Child Education	Dept. of CS and ZPH Govt. School.	04.05.2023	19
5	Clean India	NSS	15.04.2023	16
6	Food Relief Activity	NSS	10.02.2023	15
7	Social Media Awareness	AIML With Sree Datha Engineering College	17.12.2022	60
8	National Unity Day	S-Hub	31.10.2022	15
9	National Education Day	AIDS	11.11.2022	145
10	Skill Development program for Dropout students	NSS & AIDS	11.10.2022	50
11	Free Health Checkup Camp	NSS	26.11.2022	130

12	International Women's Day Against Violence	Women Empowerment Cell	25.11.2022	160
13	National Youth Day	NSS	12.01.2023	50
14	International Yoga Day	NSS	21.06.2023	90
15	Village Adoption- Women's Empowerment Program	NSS	24.09.2022	23
16	Women Hygiene	CS & ZPH School	07.09.2022	17
17	Voter Awareness	AIDS	27.08.2022	23
18	Awareness on E-Waste Management	AIDS	13.08.2022	32
19	Food Relief Activity	ECE & NSS	07.08.2022	25
20	Defend Against Dengue	H&S & NSS	29.07.2022	45

Number of gender equity promotion/awareness programs organized by the institution

Academic Year: 2022-23

S NO	Title of the Program	Date	No. of Participants
1	World environment day	05-6-2022	300
2	World food safety day	07-6-2022	550
3	International yoga day	21-6-2022	600
4	Women equality day	26-8-2022	520
5	International girl child day	11-10-2022	450
6	National cancer awareness day	07-11-2022	580
7	National pollution control day	02-12-2022	480
8	National energy conservation day	14-12-2022	450
9	World day for social justice	20-2-2023	500
10	National science day	28-2-2023	620
11	National safety day	04-3-2023	630
12	International women's day	08-3-2023	680

Faculty Publications

Details	Numbers
Journals	114
Conference	19
Patents	14



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Funded Projects

Name of the faculty	Department	Project Title	Project Type Research/ Consultancy	Funding Agency	Amount	A.Y
Dr.P.Mahesh Kumar	EEE	Water Float Solar Power Panels with Sun Position Tracking	Consultancy	Elpronet	1,90,000	2022-23

Result Analysis

Pass Percentage of Students Data for the Latest Completed Academic Year 2022-2023

BATCH	Regulation	BRANCH	No of registered Students	No. of students Eligible for degree without backlogs	Pass %
19-20	BR-18	CIVIL	117	86	70.09
19-20	BR-18	EEE	129	93	68.99
19-20	BR-18	MECH	89	55	59.09
19-20	BR-18	ECE	233	206	85.34
19-20	BR-18	CSE	255	229	87.84
19-20	BR-18	IT	58	50	80.70
TOTAL COUNT			881	719	81.61



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For IV BTECH II SEM

- Semester class work commencement date is 27-01-2023
- CIA-1 Internal examinations commenced on 24-03-2023
- CIA-2 Internal examinations commenced on 22-05-2023
- Lab External Examinations commenced on 24-05-2023
- Regular and Supplementary End Exam Timetables were issue on 05-05-2023
- Registration to I year I sem examination were done on 12-04-2023
- End Examinations commenced on 01-06-2023
- Result Declared and Published on 24-06-2023
- Results statistics : Registered 881 Appeared 880 and Passed 835 with 94.88%
- BTech Degree eligible students identified as 719 among 881 with 81.61%

For I MTECH I SEM

- Semester class work commencement date is 26-10-2022
- CIA-1 Internal examinations commenced on 21-12-2022
- CIA-2 Internal examinations commenced on 27-02-2023
- Lab External Examinations commenced on 06-03-2023
- Regular and Supplementary End Exam Timetables were issue on 03-03-2023
- Registration to I year I sem examination were done on 21-02-2023
- End Examinations commenced on 13-03-2023
- Result Declared and Published on 30-04-2023
- Results statistics : Registered 6 Appeared 6 and Passed 4 with 66.67%


Placement and Internship details

Number of outgoing students placed and progressed to higher education: **688**

Consolidate Report and follow up action

For the year 2022-23

S. No.	Observations	Follow up Action
1.	Academic Calendar should be strictly adhered	All are adhered to with one or two exceptions
2	Students Absent details should be informed to parents	SMS sent to parents on the same day
3	Result Analysis should be made and necessary measures to improve the pass percentage should be implemented	Based on the result analysis, subjects with more failures are planned to conduct remedial classes.


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4	Students requesting permission should be given after getting clarification from their parents	Class coordinators implemented by talking to the parents and then permission is granted
5	ICT and Activity based teaching be followed as much as possible	Implemented
6	E-Governance portals should be updated	Updating done wherever required
7	ERP tools to be utilized effectively	Verified
8	Extra-curricular Activities to be planned after regular class hours	Information circulated
9	Participation in IIC, MSME Idea and other Hackathons should be encouraged	HODs and Faculty conducted sessions in classes to motivate the students
10	Outreach activities to be effectively implemented	Necessary information shared to students by Heads
11	Handouts to be circulated at the start of the semester	Implemented
12	Leave by faculties should be minimized	Faculty are informed not to take leave without information
13	Support to be provided to slow learners	Slow learners identified and necessary input given
14	Course files should be updated with attainments and outcomes	Attainments are calculated and Updated
15	Faculty participation in FDPs/STTPs/ other workshops should be improved	Faculty are informed to participate atleast 2 events per semester and steps are implemented
16	At least one FDP and Workshop to be conducted	Initiated
17	Faculty Publications to be improved	Faculty are informed to publish minimum one to two paper per AY
18	Technical and core area trainings to be planned	Planned to conduct in respective emerging areas
19	Sports Activities to be improved	Physical Directors has taken necessary steps
20	Aptitude and Quantative sessions to be planned apart technical sessions in Placement Training Programs	Initiated

21	Company Specific trainings to be planned	In process
22	360 Feedback should be taken and analyzed	In Progress
23	Alumni, Employers and Parents meet and feedback to be collected	Implemented
24	Internships by students is not as expected	Necessary steps are taken to increase the participation
25	Budgets y departments to be submitted on time	Adhered to time
26	Grievance Redressal Mechanism should function effectively	Action Taken as soon as information Received
27	Green Audit to be planned	Audit done
28	Community Projects and Trainings to planned	In Process



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No. of Final Year Outgoing students: 986

Faculty Count :260

All Applicable Rankings : NBA, Times Ranking, MHW Ranking, OBE 'A+' Ranking, ARIIA Promising Band, IIRF Ranking "Gold Band"

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MOUs :48

No. of Students benefitted through scholarship:2373

Faculty Participation list



Details	Numbers
FDP including NPTEL	149
Workshops	158



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NO. OF Final Year Outgoing students. 575

Faculty Count :259

All Applicable Rankings : NBA, Times Ranking|

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MOUs :34

No. of Students benefitted through scholarship:2159

Faculty Participation list

Details	Numbers
FDP including NPTEL	154
Workshops	96
Conference/ Seminars	39



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No. of Final Year Outgoing students: 943

Faculty Count :252

All Applicable Rankings : NBA, Times Ranking

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MOUs :29

No. of Students benefitted through scholarship:2147

Faculty Participation list

Details	Numbers
FDP including NPTEL	132
Workshops	107
Conference/ Seminars	45



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No. of Final Year Outgoing students: 934

Faculty Count :242

All Applicable Rankings : NBA, Times Ranking

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MOUs :27

No. of Students benefitted through scholarship:2131

Faculty Participation list

Details	Numbers
FDP including NPTEL	101
Workshops	126
Conference/ Seminars	31



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