



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING (DEEMED TO BE UNIVERSITY)
Name of the head of the Institution		Prof. K B R Varma
Designation		Vice Chancellor
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08555-287239
Mobile no.		9440515457
Registered Email		registrar@sssihl.edu.in
Alternate Email		regoffice@sssihl.edu.in
Address		Administrative building, Sri Sathya Sai Institute of Higher Learning, Vidyagiri,
City/Town		Prasanthi Nilayam
State/UT		Andhra Pradesh

Pincode	515134																								
2. Institutional Status																									
University	Deemed																								
Type of Institution	Co-education																								
Location	Urban																								
Financial Status	private																								
Name of the IQAC co-ordinator/Director	Dr. Pallav Kumar Baruah																								
Phone no/Alternate Phone no.	08555287235																								
Mobile no.	9440699887																								
Registered Email	pkbaruah@sssihl.edu.in																								
Alternate Email	baruahpk@gmail.com																								
3. Website Address																									
Web-link of the AQAR: (Previous Academic Year)	http://sssihl.edu.in/sssuniversity/portals/0/Images/About%20SSSIHL/AQAR/SSSIHL-AQAR-2017-18.pdf																								
4. Whether Academic Calendar prepared during the year	Yes																								
if yes,whether it is uploaded in the institutional website: Weblink :	http://sssihl.edu.in/sssuniversity/Portals/0/Images/Academics/SSSIHL-Academic-Calendar-2019-20.pdf																								
5. Accrediation Details																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A++</td> <td>96</td> <td>2003</td> <td>21-Mar-2003</td> <td>21-Mar-2008</td> </tr> <tr> <td>2</td> <td>A</td> <td>3.63</td> <td>2011</td> <td>08-Jan-2011</td> <td>08-Jan-2016</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A++	96	2003	21-Mar-2003	21-Mar-2008	2	A	3.63	2011	08-Jan-2011	08-Jan-2016
Cycle	Grade	CGPA	Year of Accrediation	Validity																					
				Period From	Period To																				
1	A++	96	2003	21-Mar-2003	21-Mar-2008																				
2	A	3.63	2011	08-Jan-2011	08-Jan-2016																				
6. Date of Establishment of IQAC	23-Jun-2004																								

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Mid Year alumni meet ; Annual Event	11-Aug-2018 1	50
National Science Week ; Annual Event	28-Feb-2019 7	500
Campus Hostel Management Committee	20-Mar-2018 1	27
Campus Hostel Management Committee	14-Jan-2019 1	25
Faculty Introspection Workshop; Annual Event	24-Apr-2019 1	160
Multidimensional Student Impact Assessment	26-Aug-2019 7	1220
View File		

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
SSSIHL	UGC SAP DRSIIL	UGC	2018 1460	11100000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

1

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

Yes

Upload the minutes of meeting and action taken report

[View File](#)

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

No

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

Formation of Syllabus Technical Review Committee, and Introduced MSC(Data Science and Computing)

On Introspection Day (April 24) every year where all the teaching faculty departmentwise deliberate and discuss quality issues which have been addressed in the last year and identify those which need attention in the next year and what steps need to be taken to address this issue both from angle of academic rigor and the value systems as stated by our Revered Founder Chancellor Bhagawan Sri Sathya Sai Baba.

Village Empowerment Programme in Marlapalli, Bontalapalli, Narasimpalli for their all round development done by students and staff of Prasanthi Nilayam Campus, and similar initiative carried out by the MBA students and faculty of Anantapur Campus at Upparapalli village in Anantapur District. A Project Love Stream to create long lasting benefits to generations of families in a Leper Colony in the outskirts of Anantapur town has been going in last three decades.

Office space provided for Alumni Cell in Prasanthi Nilayam and Anantapur Campuses

Celebrating Christmas with village children - Muddenahalli Campus, Christmas 2018
Similar to previous years, on the morning of 25 December 2018, the students of the campus visited Muddenahalli village for Christmas celebrations. The nagar sankeertan that commenced from the hostel wound its way into the village. The students offered lighted candles to the children who participated in the bhajan session held at the local Hanuman temple. After the prayers, the children were all offered chocolates as Christmas gifts. The kids and the students, both enjoyed the heart felt gesture. Old Age Home Visit - Muddenahalli Campus, July 2018 and April 2019
Students of the campus, like earlier years, visited the Sai Dwarakamayee Vriddhashrama, an old age home at Sultanpet, Nandi village, about four kilometres from Muddenahalli. The resident population has now swelled to about fifty residents. After a half hour bhajan session, the students spent about an hour interacting with the aged elders, during which they sang songs and listened to the experiences of the residents. The elders too enthusiastically sang and talked to the young students. For those residents who could not come to the prayer hall, the students visited them in their living rooms. The visit taught students the value of empathy and respect for elders. They were emotionally touched after listening to the elders.

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

Plan of Action	Achievements/Outcomes
Industry Academia Engagement	In order to facilitate better interaction between the Industry and the Institute an Industry Interface Cell , SSSIHL. It has initiated a project to empower Rural Entrepreneurs of Nimalakunta Village (25 Km from

	<p>Puttaparthi) by creating market Linkages for its ancient Art Craft with Industry and other relevant stake holders.This will help in reviving saving the ancient craft that originated in 200 BC when it was patronized by the rulers of the Satvahana dynasty.This is likely to have an positive Impact on the livelihood of 500 plus families develop village cluster.</p>
Alumni Engagement	<p>A space has been created for a better synergy and liaison between Alumni and the alمامater. It facilitates organizing expert lectures from the alumni/academia/industry from different areas of specialization. This is also helps the institute in research engagement, village empowerment programmes etc.</p>
Extension Activities	<p>The institutes village empowerment programme which has been modified to make the engagement a long term one to bring about a social, economic and spiritual transformation in the village. This has been called as the Village Empowerment Programme. Villages namely, Narasimpalli, Bontalapalli, Marlapalli were adopted.</p>
Thrust on Green Initiatives	<p>Installation of Solar Photo voltaic Cells based power generation in two main campuses. The total capacity of the solar power has touched 1200 kW in the institute.</p>
Introduction of innovative and competitive courses	<p>The institute has started B.Sc (Hons.) in Computer Science from the academic year 2019 and 20. It has also started M.Sc (Data Science Computing) from the academic year 2018 and 19</p>
Promotion of Research Culture	<p>To promote a vibrant research environment and also encourage inter disciplinary research, a Central Research Instruments Facility has been created with lot of sophisticated high end equipments. is being set up to provide major impetus to research activities in the Anantapur Campus of the institute.</p>
Curriculum review and Enhancement	<p>Each department has been asked look at the relevance of their curriculum w.r.t. the development happening in the field of Science Technology and Industry.The formulation of all the POs, PSOs and COs have been duly completed as stipulated by NAAC for all programmes/courses.</p>

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body

Meeting Date

Board of Management

19-Jun-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2019

Date of Submission

06-Apr-2019

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

1) Admissions module allows students to apply to programmes online. This module takes care of the preadmission, admission and post admission processing of data. The results are generated and displayed on the institute web site. 2) The finance and accounting section uses Tally ERP 9 Gold version for accounting, Saral Paypack for establishment module, TDSMAN for tax purposes. 3) All the hostels and campuses maintain student databases in RDBMS. 4) The examination section also has a RDBMS for conduct of examinations and processing of results.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BA	UECO	Economics	15/10/2018
BSc	UMEC (Honours)	Economics	15/10/2018
MA	PECO	Economics	15/10/2018
MBA	MBAG	Management	15/10/2018

BCom	UCOM (Honours)	Commerce	15/10/2018
BSc	UCSC (Honours)	Computer Science	15/10/2018
Mtech	MTCS	Computer Science	15/10/2018
BPA	BPAM	Music	15/10/2019
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
MSc	Master in Data Science and Computing	01/06/2018	MDSC	01/06/2018
BSc	Bachelor of Honours in Computer Science	01/06/2019	UCSH	01/06/2019
MA	Master of Arts in Economics with specialization in Financial Economics	01/06/2019	PECO	01/06/2019
BSc	Bachelor of Honours in Mathematics, Computer Science, Statistics	01/06/2018	UMCS	01/06/2018
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
MSc	MSc in Data Science and Computing	01/06/2018
BSc	Honours in Mathematics, Computer Science, Statistics	01/06/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
MSc	Data Science and Computing	01/06/2018
MSc	Mathematics	01/06/2018
MA	Under Financial Economics, Computational	01/06/2019

	Finance and Data Analysis	
MBA	Under Financial Economics, Computational Finance and Data Analysis	01/06/2019

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Revamped Awareness Course for Undergraduate, Postgraduate and Professional Programmes	01/06/2018	1330
Commerce Workshop I, II, III, IV	01/06/2018	255
International Economics and Finance	01/06/2018	80
MBAG104: SelfDevelopment	01/06/2018	60
MBAG102: Values Based Management	01/06/2018	60
MBAG401: Values Centered Leadership	01/06/2018	60
MBAG109, 209, 309 and 409: Analytical and Presentation Skills	01/06/2018	60
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BEd	Bachelor of Education (Internship)	20
Mtech	Master of Technology in Computer Science	9
Mtech	Master of Technology in Optoelectronics and Communication	9
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

(A) Students The feedback obtained from students on the six dimensions of 1) Core Teaching, 2) Pedagogy 3) Class Interaction, 4) Student Centric Teaching, 5) Conduct of CIE and 6) Discipline and Values are communicated to the respective faculty and the HoD. The individual faculty and the HoD take corrective action wherever necessary. (B) Teachers The teachers fill the annual faculty self evaluation forms delineating their work load, their objectives for the subsequent academic year and a report of the previous academic year. They also clearly articulate (if any) their bottlenecks, challenges and steps required for self improvement. These are then discussed with the respective HoDs. All the teachers are part of the respective department Board of Studies (BoS) which meets every year to discuss and constantly upgrade and update the syllabus and curriculum. Feedback from students and Teachers are incorporated in syllabus redesign. (C) Employers The employers of the alumni of SSSIHL give a structured feedback on the performance of the alumni in the three broad outcomes which the Sri Sathya Sai system of Integral Education stands for. They are Professionally Sound, Socially Responsible and Spiritually Aware. The feedback is then studied carefully by the institute and corrective action is taken wherever it is required. (D) Alumni The alumni provide their feedback during the alumni meet which is held in the January 1st and 2nd week of August and every year. An Alumni Impact Survey was conducted in January 2019 which elicited suggestions of the alumni on different aspects of the teaching learning process at the institute. It also requested the alumni to provide the their convenience to engage with the institute. This data was then sent to all the HoDs for the necessary action. (E) Parents The parents provide feedback about the progress of their ward and suggestions of improvement if any at the end of every semester. These are studied by the warden and the respective department teachers and corrective action or suggestions from the parents are considered from the subsequent semester onwards.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BA	Economics, History, Political Science, Philosophy, Optional English	55	149	47
BSc	Honours in Mathematics, Physics, Chemistry, Biosciences, Computer Science, Economics	170	962	151
BCom	Honours in Commerce	80	414	77
BPA	Music	10	10	7
BBA	BBA	40	136	39
MA	Economics,	20	89	17

	English Language and Literature			
MSc	Mathematics, Physics, Chemistry, Biosciences, Food and Nutritional Sciences	80	109	80
MBA	MBA	60	57	57
Mtech	Computer Science, Optoelectronics and Communications	36	43	14
BSc	Food and Nutritional Sciences	25	130	23
BEd	Education	50	27	10
BCA	BCA	30	52	17
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	867	467	67	43	73

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
166	166	9	178	178	9

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

The University has a mentoring system whereby the teaching faculty mentor the students every year. This helps the student to blossom in both academic as well as in the cocurricular activities of the University. Furthermore, these teachers reside in the hostel or on the campus where the students live throughout the academic year. This facilitates better rapport between teachers and students, and creates an environment for the teacher to help the student in all aspects of the SSSIHL experience. Unlike other Universities, where access to teachers (outside of class) is restricted to designated office hours, at SSSIHL, the environment is such that students can approach teachers at various times during the day and can freely discuss both academic issues and personal matters with

them ranging from academics to spirituality to family issues back home in confidence. Every student at the University has to necessarily stay in the Hostel only, as the University endeavours to develop all round personality of each student. One on one interactions with students and resident teachers is a continuous process in this system. The orientation/ induction/ socialization programme is conducted at the residential hostel and also the respective campuses of the university. As facilitators and mentors, teachers set an example by following the values based education system as laid out by the Revered Founder Chancellor. Teachers resident in the hostels take this a step further. In addition to mentoring students, every teacher is expected to perform three fundamental tasks: ensuring the all round welfare of students discharging specific duties for the maintenance of the hostel daily routine and upkeep of general discipline in the hostel and facilitating the smooth functioning of the hostel Self reliance departments. Campuswise Mentorship at SSSIHL: In Anantapur campus and Brindavan campus, the mentors are allocated the mentees after taking consent from them. There are periodical meetings of the mentors with their respective mentees and the deliberations are shared with the directors office for record. In Prasanthi Nilayam campus, students have an option to have mentors at the department level and also at the hostel level. In Muddenhalli campus, each teaching faculty is allotted some particular number of rooms. The mentors meet the rooms on a monthly basis for addressing any issues being faced by the students. This is then reported to the directors office. But the mentees dont have to wait for the formal meeting to communicate the issues faced by them. They have the freedom to talk to their mentors whenever they feel it is required.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1334	166	1:8

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
166	166	0	7	7

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. N Venkatesha Rao Awarded as Vyasaraaja seva dhurina	Associate Professor	Navavrindavana by Sri Vyasaraaja samsthanam
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BA	UECO, UHIS, UPOL, UOEN, UPHI	Semester	25/04/2018	24/05/2018
BSc	UMAT, UPHY, UCHE, UBIO, UFNS	Semester	25/04/2018	24/05/2018
BCom	UCOM	Semester	25/04/2018	24/05/2018

BPA	UBPA	Semester	25/04/2018	24/05/2018
BBA	UBBA	Semester	25/04/2018	24/04/2018
MA	PECO, PENG	Semester	25/04/2018	08/06/2018
MSc	PMAT, PPHY, PCHE, PBIO, PFNS	Semester	25/04/2018	06/07/2018
MBA	MBAG	Semester	25/04/2018	23/06/2018
Mtech	MTCS, MTOC	Semester	25/04/2018	02/07/2018
BEd	BEDN	Semester	25/04/2018	08/06/2018
BCA	UBCA	Semester	25/04/2018	25/05/2018
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
126	1334	10.59

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.sssihl.edu.in/sssuniversity/Accreditation.aspx>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UECO, UHIS, UPOL, UOEN, UPHI	BA	Economics, History, Political Science, Optional English	28	27	97
UMAT, UPHY, UCHE, UBIO, UFNS	BSc	Mathematics, Physics, Chemistry, Biosciences, Food and Nutritional Sciences	146	143	97
UCOM	BCom	Commerce	72	66	97
UBBA	BBA	Business Administration	34	33	97
PECO, PENG	MA	Economics, English Language and Literature	17	17	99
PMAT, PPHY,	MSc	Mathematics,	81	78	99

PCHE, PBIO, PFNS		Physics, Chemistry, Biosciences, Food and Nutritional Sciences			
MBAG	MBA		50	50	99
MTCS, MTOC	Mtech	Computer Science, Optoelectronics and Communications	32	31	99
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2.7 – Student Satisfaction Survey

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

<http://www.sssihl.edu.in/sssuniversity/Accreditation.aspx>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

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

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr Ajith Padyana	Mentor for change to promote research and innovation in young Indian minds	06/08/2018	NITI Aayog
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3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of the fellowship	Funding Agency
Sri Sudam Bhoi, Biosciences, UGC JRF	3	UGC JRF
Sri Bharathram, UGC JRF	3	UGC JRF
Sri Abhinash Subba, UGC JRF	3	UGC JRF
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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	13140	DST	90.67	64.9
Major Projects	13140	DST TSDB	31.62	29.62

Major Projects	13140	DBT	20	12.11
Major Projects	8760	DBTD	53.72	52.07
Industry sponsored Projects	365	Maestro Technology, USA	19.28	19.28
Interdisciplinary Projects	8760	CSIR	20	7.32
Industry sponsored Projects	365	OMIX	2.75	2.75
Major Projects	13140	DST	45.68	26.32
Industry sponsored Projects	13140	TATA Trust	97	17.42
Any Other (Specify)	365	SSSIHL sponsored	3.04	3.04
Major Projects	13140	DST	46.1	31.1
Major Projects	13140	DST SERB	24.53	8
Major Projects	13140	DST SERB	60.82	29.5
Minor Projects	365	UGC DAE CSR	1.68	1.68
Major Projects	13140	DST	70.5	17.5
Major Projects	13140	ICMR	23.91	9.61
Major Projects	13140	ICMR	39.67	15.24
Major Projects	13140	UGC BSR	10	8
Major Projects	13140	DRDO	83.32	43.13
Minor Projects	365	ICMR IMPRESS	3	3
Industry sponsored Projects	365	Devic Earth Pvt Ltd Bangalore	20.47	20.47
Major Projects	13140	DST	30.5	15.57
Major Projects	13140	UGC SAP DRS III	111	79.59
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3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
No Data Entered/Not Applicable !!!		
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
No Data Entered/Not Applicable !!!				
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Computer Science	1
Chemistry	3
Biosciences	3
English Language and Literature	1

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	English Language and Literature	6	3.9
National	Food and Nutritional Sciences	1	0
International	Food and Nutritional Sciences	4	0
International	Mathematics and Computer Science	1	0.85
National	Biosciences	2	0
International	Biosciences	20	2.6
National	Chemistry	5	0
International	Chemistry	10	2.43
National	Physics	12	3.8
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Languages	2
Chemistry	1
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3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
SPIROBIBENZOPYRANS AND ANALOGUES AS MULTITHERAPEUTIC AGENTS	Published	229665	20/12/2018
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Nonlinear optical transmission of nanocrystalline FeSe ₂ in the ultrafast excitation regime	Sairam S., Rai R., Molli M.	AIP Conference Proceedings	2018	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, India 515134	0
Studies on temperature coefficient of resistivity of Cu ₂ Se V ₂ O ₅ nanocomposite	Badiya P.K., Ramamurthy S.S.	Plasmonics	2018	0	Plasmonics Laboratory, Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Anantapur, India	0
Multiple face component analysis: A unified approach towards facial recognition tasks	Venkatraman S., Bala subramanian S., Gera D.	Proceedings 2017 2nd International Conference on Man and Machine Interfacing, MAMI 2017	2018	0	Department of Mathematics and Computer Science, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh India	0
Surveillance, auditing, and feedback can reduce surgical site infection dramatical	Manivannan B., Gowda D., Bulagonda P., Rao A., Raman S.S., Natarajan S.V.	Surgical Infections	2018	0	Department of Microbiology, Sri Sathya Sai Institute of Higher Medical Sciences, Puttaparthi, India,	0

ly: Toward zero surgical site infection					Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Puttaparthi, India, Department of Cardiot horacic and Vascular Surgery, Sri Sa	
Ethnomedic inal importance of Adhatoda vasica in the south East Asian countries: Review and perspectiv es	Sai Murali R.S., Nageswara Rao G., Basavaraju R.	Studies on EthnoMedic ine	2018	0	Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, P rasanthi Nilayam, Andhra Pradesh 515134, India, Division of Research and Develo pment, Lovely Pro fessional University ,Jalandhar Delhi GT Road, Phagwara, Punjab 14441, India, Depar	0
Optical and vibrat ional spec troscopy of Ba _{0.85} C a _{0.15} Zr _{0.1} Ti _{0.903} modified lithium borate glass ceramics	Viswanath P., Prashanth S.S.P., Molli M., Wicram J.P., Sai Muthukumar V.	AIP Conference Proceeding s	2018	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prashnthi Nilayam, AP515134, India,	0

					Materials Research Centre, Indian Institute of Sciences, Bangalore, India	
Disulphide linkage: To get cleaved or not? Bulk and nano copper based SERS of cystine	Arathi P.J., Seemesh B., G. R.K.R., P. S.K., Ramanathan V.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2018	0	Department of Chemistry, SASTRA Deemed to be University, Thanjavur, Tamil Nadu, India, Department of Chemistry, SSSIHL, Prasanthi Nilayam, Anantapur, Andhra Pradesh, India	0
Effect of sulfur doping on thermoelectric properties of Sodium Tantalate: A first principles study	Chowdary B., Jayaraman K., Molli M.	AIP Conference Proceedings	2018	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, India 515 134	0
A Docker based testbed for GMPLS simulation	Avinash B.V., Ramakrishna M.S.S., Gowrishankar R., Sanagapati S.S.S., Seshasai V.	11th IEEE International Conference on Advanced Networks and Telecommunications Systems, ANTS 2017	2018	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning Prasanthi Nilayam, Andhra Pradesh, India, LightMotif Automation	0

					Sensors and Systems Pvt. Ltd, Hyderabad, Telangana, India	
Radio over fiber link design for the fronthaul of cellular communication systems	Achanta A., Rao B.A., Kandarpa S.S., Sanagapati S.S.S., Vishnubhatla K.C., Kumar K.	11th IEEE International Conference on Advanced Networks and Telecommunications Systems, ANTS 2017	2018	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning Prasanthi Nilayam, Andhra Pradesh, India, LightMotif Automation Sensors and Systems Pvt. Ltd, Hyderabad, Telangana, India	0
Studies on temperature coefficient of resistivity of graphiteV2O5 nanocomposites	Sairam S., Chowdary B., Molli M.	AIP Conference Proceedings	2018	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, India 515134	0
Surface enhanced Raman scattering platform operating over wide pH range with minimal chemical enhancement effects: Test case of tyrosine	Moronshing M., Bhaskar S., Mondal S., Ramamurthy S.S., Subramaniam C.	Journal of Raman Spectroscopy	2019	0	Department of Chemistry, Indian Institute of Technology Bombay, Mumbai, India, STAR Laboratory, Department of Chemistry, Sri Sathya	0

					Sai Institute of Higher Learning, Anantapur, India, Department of Chemistry, Indian Institute of Technology Bombay, Mu	
Artifact free robust single shot background subtraction for optical coherence tomography	Nandakumar H., Parameshwaran S., Gamini R., Srivastava S.	OSA Continuum	2019	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh, India, SmartX Connected Products PVT.LTD., Chennai, India	0
Smart and Wearable ECG monitoring system as a Point of Care (POC) device	Vishwanatham A., Narendra Ch., Abhishek S.R., Ramakrishna Chaitanya R., Sanagapati S.S.S., Mohanty S.	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	2019	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh, India, SmartX Connected Products PVT.LTD., Chennai, India	0
Polymer composite of poly (vinylidene fluoride)	Bhimireddi R., Shetty T., Varma K.B.R.	Materials Research Express	2019	0	Materials Research Centre, Indian Institute	0

<p>2methyl 4n itroanilin e via hotp ressing technique Structural , optical and electrical properties</p>					<p>of Science, B angalore56 0012, India, Functional Materials Lab, Central Research I nstruments Facility, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh, India, CMR Institute</p>	
<p>Large nonlinear refraction in pulsed laser deposited BCZT thin films on quartz substrates</p>	<p>Prashanth S.P., Rath M., Posam S., Sai Muthukumar V., Ramach andra Rao M.S., Varma K.B.R.</p>	<p>Journal of the Optical Society of America B: Optical Physics</p>	<p>2018</p>	<p>1</p>	<p>Department of Physics, Functional Materials Laboratory , Central Research I nstruments Facility (SSSIHLCRIF) , Sri Sathya Sai Institute of Higher Learning, Vidyagiri, Prashanthi Nilayam, Andhra Pradesh 515 134, India , Department of Physics, Nano Funct</p>	<p>1</p>
<p>Additional food suppl ements as a tool for biological conservati on of pred</p>	<p>Srinivasu P.D.N., Vamsi D.K.K., Ananth V.S.</p>	<p>Journal of Theoretica l Biology</p>	<p>2018</p>	<p>1</p>	<p>Department of Mathema tics, Andh raUniversi ty, Vishka patanam, A ndhraPrade</p>	<p>1</p>

atorprey systems involving type III functional response: A qualitative and quantitative investigation					sh 530003, India, Department of Mathematics and computer Science, Sri Sathya Sai Institute of Higher Learning, Ananthapur, Andhra Pradesh 515134, India	
Microwave Assisted Biogenic Synthesis of Metal Decorated Reduced Graphene Oxide and their Electrochemical Properties.	Gannavarapu K.P., Azizhannad S., Muthukumar S., Mitra S., Dandamudi R.B.	ChemistrySelect	2018	1	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning,	1
In silico modeling and synthesis of phenyl and thienyl analogs of chalcones for potential leads as antibacterial agents	Kar S., Mishra R.K., Pathak A., Dikshit A., Golakoti N.R.	Journal of Molecular Structure	2018	3	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Andhra Pradesh, 515134, India,	3
Physicochemical characterization of drug-biosurfactant micellar system: A road for developing better pharmaceutical formulation	Chauhan S., Singh K., Sundaresan C.N.	Journal of Molecular Liquids	2018	1	Department of Chemistry, Himachal Pradesh University, Summer Hill, Shimla 171005, India, Department of	1

ions					Chemistry, Sri Sathya Sai Institute of Higher Learning, Brindavan Campus, Banglore 560067, India	
Large nonlinear refraction in pulsed laser deposited BCZT thin films on quartz substrates	Prashanth S.P., Rath M., Posam S., Sai Muthukumar V., Ramach andra Rao M.S., Varma K.B.R.	Journal of the Optical Society of America B: Optical Physics	2018	1	Department of Physics, Functional Materials Laboratory , Central Research I nstruments Facility (SSSIHLCRIF) , Sri Sathya Sai Institute of Higher Learning, Vidyagiri, Prashanthi Nilayam, Andhra Pradesh 515 134, India , Department of Physics, Nano Funct	1
An empirical investigat ion of imp lementing Lean Six Sigma in Higher Education Institutio ns	Sunder M V., Mahalingam S.	Internatio nal Journal of Quality and Reliab ility Management	2018	3	Department of Management Studies, Indian Institute of Technol ogy, Madras (II TMadras), Chennai, India, Business Process Ex cellence, The World Bank, Chennai, India,	2

					Department of Management and Commerce, Sri Sathya Sai Institute of Higher Learning,	
Adapting BLE protocol for medical standard ECG transmission	Babu S., Shaji S.P., Vishwanatham A., Sundar K.V.S., Reddy T.A.S., Sanagapati S.S.S., Mohanty S.	11th IEEE International Conference on Advanced Networks and Telecommunications Systems, ANTS 2017	2018	1	Department of Physics, Sri Sathya Sai Institute of Higher Learning Prasanthi Nilayam, Andhra Pradesh, India, SmartX Connected Products PVT. LTD, Chennai, India	0
Fragmentation aware routing, wavelength and spectrum assignment (RWSA) scheme in flexgrid optical networks	Dutta R., Krishna S.S., Gowrishankar R., Subhanu G.J., Sanagapati S.S.S., Behere P.P., Bhyri S.K.	11th IEEE International Conference on Advanced Networks and Telecommunications Systems, ANTS 2017	2018	1	Sri Sathya Sai Institute of Higher Learning, India, Cisco Systems Inc., Bangalore, India	1
Novel diatomFeOx composite as highly active catalyst in photodegradation of Rhodamine6G	Gannavarapu K.P., Thakkar M., Veerapaga S., Weil L., Dandamudi R.B., Mitra S.	Nanotechnology Reviews	2018	1	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam Campus Puttaparthi, Anantapur, Andhra Pradesh 515134,	0

					India, Department of Chemistry and Enviro nmental Science, New Jersey Institute of Technol ogy, 151 Tiernan Ha	
The enigma of biofilms	Aiyer K.S., Vija yakumar B.S., Vish wanathan A.S.	Current Science	2018	1	Department of Biosciece nces, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, P uttaparthi 515 134, India	0
Fragmentat ionaware routing, wavelength and spectrum assignment (RWSA) scheme in flexgrid optical networks	Dutta R., Krishna S.S., Gowr ishankar R., Subhanu G.J., Sanagapati S.S.S., Behere P.P., Bhyri S.K.	11th IEEE Internatio nal Conference on Advanced Networks and Teleco mmunicatio ns Systems, ANTS 2017	2018	1	Sri Sathya Sai Institute of Higher Learning, India, Cisco Systems Inc., Bangalore, India	1
Synthesis, mechanisti c and synergy studies of diaryliden ecyclohexa none deriv atives as new antipl asmodial p harmacopho res	Joshi B.P., Moha nakrishnan D., Mittal G., Kar S., Pola J.K., Golakoti N.R., Nanubolu J.B., D R.B., S S.S.K., Sahal D.	Medicinal Chemistry Research	2018	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Puttaparth i, India	0
Blended le arningassi milating authentic data into deep	Avrtp S., Baruah P.K.	Proceeding s 25th IEEE Inter national Conference on High Pe	2019	0	Department of Mathema tics And Computer Science, Sri Sathya	0

learning models		Performance Computing Workshops, HiPCW 2018			Sai Institute of Higher Learning, Puttaparthi, India	
Andrographolide: A natural product template for the generation of structurally and biologically diverse diterpenes	Kandanur S.G.S., Tamang N., Golakoti N.R., Nanduri S.	European Journal of Medicinal Chemistry	2019	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, 515134, Puttaparthi, A.P., India, Department of Process Chemistry, National Institute of Pharmaceutical Education and Research, Balanagar, 500037, Hyderabad, Tel	0
Papermicrofluidics based SERS substrate for PPB level detection of catechol	Hariharan A., Chelli S.M., Muthukumar V S., Belliraj S.K., Ferrari M., Krishna Narasimhan., Vishnu bhatla K.C.	Optical Materials	2019	0	Instruments Facility, SSSIHL, India, IFNCR CSMFO Lab., FBK Photonics Unit, Povo Trento, Italy, Museo Storico della Fisica e Centro Studi e Ricerche "Enrico Fermi", Piazza del Viminale	0

					1, 00184, Roma, Italy, FabULLAS, FemtoFab, Central Research Inst	
Super dielectric property observed in nanocomposite of magnetic iron oxide and tin oxide	Khanal B., Rathi P.L., Molli M., Rattan T.M., Deepa S., Gowrishankar R.	AIP Conference Proceedings	2019	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, A.P. India 515134	0
An improvised microtiter dish biofilm assay for noninvasive biofilm detection on microbial fuel cell anodes and studying biofilm growth conditions	Aiyer K.S., Vijayakumar B.S.	Brazilian Journal of Microbiology	2019	0	Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Puttaparthi, India.	0
Dielectric properties study of surface engineered nano TiO ₂ , epoxy composites	Siddabattuni S., Akella S.H., Gangula A., Belliraj S., Chunduri L.A.A.	Bulletin of Materials Science	2018	2	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Puttaparthi, India	2
A novel loss of function mutation in HACE1 is linked to a genetic disorder	Hariharan N., Ravi S., Pradeep B.E., Subramanyam K.N., Choudhary B.,	Human Genome Variation	2018	2	Institute of Bioinformatics and Applied Biotechnology, Bangalore, Karnataka,	2

in a patient from India	Srinivasan S., Khanchandani P.				India, Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Puttaparthi, Andhra Pradesh, India, Department of Orthopaedics, Sri Sathya Sai Institute of Hi	
LowCost Plasmonic Carbon Spacer for Surface PlasmonCoupled Emission Enhancement and Ethanol Detection: a Smartphone Approach	Badiya P.K., Srinivasan V., Naik S.P., Rai B., Reddy N., Prathap Chandran S., Sai Muthukumar V., Molli M., Ramamurthy S.S.	Plasmonics	2018	2	Plasmonics Laboratory, Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayamm, Anantapur, India, Centre for Incubation Innovation Research and Consultancy, Jyothy Institute of Technology, Bengaluru, India, Department	2
Multiple facecomponent analysis: A unified approach towards facial recognition tasks	Venkatraman S., Balasubramanian S., Gera D.	Proceedings 2017 2nd International Conference on Man and Machine Interfacing, MAMI 2017	2018	0	Department of Mathematics and Computer Science, Sri Sathya Sai Institute of Higher Learning, Prasanthi	0

					Nilayam, Andhra Pradesh India	
Surveillance, auditing, and feedback can reduce surgical site infection dramatically: Toward zero surgical site infection	Manivannan B., Gowda D., Bulagonda P., Rao A., Raman S.S., Natarajan S.V.	Surgical Infections	2018	0	Department of Microbi ology, Sri Sathya Sai Institute of Higher Medical Sciences, Puttaparth i, India, Department of Bioscie nces, Sri Sathya Sai Institute of Higher Learning, Puttaparth i, India, Department of Cardiot horacic and Vascular Surgery, Sri Sa	0
Ethnomedic inal importance of Adhatoda vasica in the south East Asian countries: Review and perspectiv es	Sai Murali R.S., Nageswara Rao G., Basavaraju R.	Studies on EthnoMedic ine	2018	0	Department of Bioscie nces, Sri Sathya Sai Institute of Higher Learning,P rasanthi Nilayam, Andhra Pradesh 515134, India, Division of Research and Develo pment, Lovely Pro fessional University ,Jalandhar Delhi GT Road, Phagwara, Punjab 14441,	0

					India, Deapar	
Optical and vibrational spectroscopy of Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.903} modified lithium borate glass ceramics	Arathi P.J., Seemesh B., G. R.K.R., P. S.K., Ramanathan V.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2018	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, India 515134	0
Disulphide linkage: To get cleaved or not? Bulk and nano copper based SERS of cystine	Chowdary B., Jayaraman K., Molli M.	AIP Conference Proceedings SAIP Conference Proceedings	2018	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, India 515134	0
Physicochemical characterization of drug-biosurfactant micellar system: A road for developing better pharmaceutical formulations	Chauhan S., Singh K., Sundaresan C.N.	Journal of Molecular Liquids	2018	1	Department of Chemistry, Himachal Pradesh University, Summer Hill, Shimla 171005, India, Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Brindavan Campus, Bangalore 560067, India	1
The effect of functional group polarity in	Chandra B.P., Wu Z., Ntim S.A., Rao G.N., Mitra S.	Journal of Materials Science: Materials in Electronics	2018	2	Department of Physics, Sri Sathya Sai Institute	2

palladium immobilized multiwalled carbon nanotube catalysis: Application in carbon-carbon coupling reaction						of Higher Learning, Anantapur, India, Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Anantapur, India, Materials Research Centre, Indian Institute of Science, Bangalore, India.	
Fast video super resolution using deep convolutional networks	Chaitanya Pavan Tanay K., Khanna S., Chandrasekaran V., Baruah P.K.	Applied Sciences (Switzerland)	2018	2	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam 515134, India, School of Science, Technology, Engineering and Mathematics, University of Washington Bothell, Bothell, WA 98011, USA, Department of Chemistry and	2	
The photocatalytic role of electrodeposited	Arathi P.J., Bhaskar S., Rajendra	Physical Chemistry Chemical Physics	2018	1	Department of Chemistry, SASTRA Deemed to	0	

copper on pencil graphite	Kumar Reddy G., Suresh Kumar P., Ramanathan V.				be University, Thanjavur, India, Department of Chemistry, SSSIHL, Prasanthi Nilayam, Anantapur, India	
Facile onepot hydrothermal synthesis of stable and biocompatible fluorescent carbon dots from lemon grass herb	Thota S.P., Thota S.M., Bhagavatham S.S., Manoj K.S., Muthukumar V.S.S., Venketesh S., Vadlani P.V., Belliraj S.K.	IET Nanotechnology	2018	1	Sri Sathya Sai Institute of Higher Learning, India, Kansas State University, USA	1
Effect of sulfur doping on thermoelectric properties of Sodium Tantalate: A first principles study	Molli M., Chowdary B., Muthukumar V.S., Gowrishankar R.	AIP Conference Proceedings	2018	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, India 515134	0
Novel diatom FeOx composite as highly active catalyst in photodegradation of Rhodamine 6G	Gannavarapu K.P., Thakkar M., Veerapaga S., Weil L., Dandamudi R.B., Mitra S.	Nanotechnology Reviews	2018	1	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam Campus Puttaparthi, Anantapur, Andhra Pradesh 515134, India,	0

					Department of Chemistry and Environmental Science, New Jersey Institute of Technology, 151 Tiernan Ha	
The enigma of biofilms	Aiyer K.S., Vijayakumar B.S., Vishwanathan A.S.	Current Science	2018	1	Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Puttaparthi 515 134, India	0
Physicochemical characterization of drug-biosurfactant micellar system: A road for developing better pharmaceutical formulations	Chauhan S., Singh K., Sundaresan C.N.	Journal of Molecular Liquids	2018	1	Department of Chemistry, Himachal Pradesh University, Summer Hill, Shimla 171005, India, Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Brindavan Campus, Bangalore 560067, India	1
Enhanced piezoelectric properties of Sr(1.7)(Na _{0.5} Bi _{0.5}) _{0.3} Bi ₄ Ti ₅ O ₁₈ ceramics in the	Shet T., Bhimireddi R., Varma K.B.R.	Journal of the American Ceramic Society	2019	0	Materials Research Center, Indian Institute of Science, Bangalore, Department of	0

system Sr(2-x)(Na0.5Bi0.5)xBi4Ti5O18(where 0 ≤ x ≤ 0.5)					Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, India	
Investigation of nonlinear optical and photocatalytic properties of sol-gel derived KBiFe2O5	Rai R., George A., Sai Muthukumar V., Varma K.B.R., Philip R., Molli M.	Journal of Materials Science: Materials in Electronics	2019	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, A.P. India 515134	0
Comparative genomic analysis of a naturally competent Elizabethkingia anophelis isolated from an eye infection	Bulagonda E.P., Manivannan B., Mahalingam N., Lama M., Chanakya P.P., Khamari B., Jadhao S., Vasudevan M., Nagaraja V.	Scientific Reports	2018	0	Department of Microbiology and Cell Biology, Indian Institute of Science, Bengaluru, India	0
Shape engineered three dimensional Fe2O3 activated carbon nano composite as enhanced electrochemical super capacitor electrode material	Gannavarapu K.P., Dandamudi R.B.	International Journal of Energy Research	2018	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam 515134, Andhra Pradesh, India,	0
Assessing Activity of Antimicrobial	Aiyer K.S., Rai R., Vijayakumar B.S.	Applied Biochemistry and Biotechnology	2019	2	Department of Biosciences, Sri Sathya Sai	0

Agents and Screening Antibiotic Resistant Bacteria Through DREAM Assay						Institute of Higher Learning, Puttaparthi, India.	
Design, synthesis, and biological evaluation of new 12s substituted 14deoxyand rographolide derivatives as apoptosis inducers	Kandanur S.G.S., Kundu S., Cadena C., Juan H.S., Bajaj A., Guzman J.D., Nanduri S., Golakoti N.R.	Chemical Papers	2019	2	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam Campus, Anantapur, India, Laboratory for Nanotechnology and Chemical Biology, Regional Centre for Biotechnology, 3rd Milestone FaridabadGurgaon Expressway, Farid	0	
MicrowaveAssisted Biogenic Synthesis of MetalDecorated Reduced Graphene Oxide and their Electrochemical Properties.	Gannavarapu K.P., Azizighannad S., Muthukumar S., Mitra S., Dandamudi R.B.	ChemistrySelect	2018	1	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning,	1	
Biological Conservation of Living Systems by Providing Additional Food Suppl	Srinivasu P.D.N., Vamsi D.K.K., Aditya I.	Differential Equations and Dynamical Systems	2018	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning,	0	

ements in the Presence of Inhibitory Effect: A Theoretical Study Using Predator-Prey Models						
Third order nonlinear optical properties of ? enhanced PVDF based nanocomposite thin films	Viswanath P., Rambhatla P.V., Sai Kiran P., Muthukumar V.S.	Journal of Materials Science: Materials in Electronics	2019	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, India	0
Streptavidin conjugated gold nanoclusters as ultrasensitive fluorescent sensors for early diagnosis of HIV infection	Kurdekar A.D., Chunduri L.A.A., Manohar C.S., Hale yurgiriset ty M.K., Hewlett I.K., Venk ataramania h K.	Science Advances	2018	4	Laboratories for Nanoscience and Nanotechnology Research, Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthin ilayam, Andhra Pradesh, India, Andhra Med Tech Zone, Hill No. 2, IT Park Madhurwada, Rushikon da, Vishak hapatnam, A	4
Highly functionalized 2-amino-4H-pyrans as potent cholinesterase	Kumar R.S., Almansour A.I., Arumugam N., Althamili	Bioorganic Chemistry	2018	3	Department of Chemistry, Sri Sathya Sai Institute of Higher	3

inhibitors	D.M., Basiri A., Kotresha D., Manohar T.S., Venketesh S., Asad M., Asiri A.M.				Learning, Prasanthi Nilayam, Andhra Pradesh, 515134, India,	
HBasechain DB - A scalable blockchain framework on Hadoop ecosystem	Sahoo M.S., Baruah P.K.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligen ce and Lecture Notes in B ioinformat ics)	2018	3	Department of Management Studies, Indian Institute of Technol ogy, Madras (II TMadras), Chennai, India, Business Process Ex cellence, The World Bank, Chennai, India, Department of Management and Commerce, Sri Sathya Sai Institute of Higher Learning,	2
Dielectric properties study of surface engineered nano TiO ₂ , epoxy composites	Kumar R.S., Almansour A.I., Arumugam N., Althamili D.M., Basiri A., Kotresha D., Manohar T.S., Venketesh S., Asad M., Asiri A.M.	Bioorganic Chemistry	2018	3	Department of Chemistry, College of Sciences, King Saud University , P.O. Box 2455, Riyadh 11451, Saudi Arabia, Department of Pharmac eutical Sciences, College of	1

					Pharmacy, University of Nebraska Medical Center, Omaha, NE 68198, United States, Departme	
A novel loss of function mutation in HACE1 is linked to a genetic disorder in a patient from India	Siddabattuni S., Akella S.H., Gangula A., Belliraj S., Chunduri L.A.A.	Bulletin of Materials Science	2018	2	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Puttaparthi, India	2
Low Cost Plasmonic Carbon Spacer for Surface Plasmon Coupled Emission Enhancement and Ethanol Detection: a Smartphone Approach	Hariharan N., Ravi S., Pradeep B.E., Subramanyam K.N., Choudhary B., Srinivasan S., Khanchandani P.	Human Genome Variation	2018	2	Institute of Bioinformatics and Applied Biotechnology, Bangalore, Karnataka, India, Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Puttaparthi, Andhra Pradesh, India, Department of Orthopedics, Sri Sathya Sai Institute of Hi	2
Enhanced dielectric properties and energy storage density of surface	Sadhu S.P.P., Siddabattuni S., Muthukumar V.S., Varma	Plasmonics	2018	2	Plasmonics Laboratory, Department of Chemistry, Sri Sathya	2

engineered BCZT/PVDFH FP nanodielectrics	K.B.R.					Sai Institute of Higher Learning, Prasanthi Nilayamm, Anantapur, India, Centre for Incubation Innovation Research and Consultancy, Jyothy Institute of Technology, Bengaluru, India, Department
Biological Conservation of Living Systems by Providing Additional Food Supplements in the Presence of Inhibitory Effect: A Theoretical Study Using Predator-Prey Models	Srinivasu P.D.N., Vamsi D.K.K., Aditya I.	Differential Equations and Dynamical Systems	2018	0	Department of Mathematics, Andhra University, Visakhapatnam, India, Department of Mathematics and Computer Science, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, India, AlpenAdriaUniversity, Klagenfurt, Austria	0
Soluplus enhances many fold the dissolution characteristic of ibuprofen through ibuprofen soluplus nano formulation	Patnaik S., Chunduri L.A.A., Kurdekar A., Prathibha C., Krishna V.S.V., Aditha S.K., Venk	Journal of Bionanoscience	2018	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning,	0

ns	ataramania h K.					
Ethnobotany: A bridge between traditional knowledge and biotechnological studies on medicinal and aromatic plants	Vishwanath an A.S.	Biotechnological Approaches for Medicinal and Aromatic Plants: Conservation, Genetic Improvement and Utilization	2018	0	Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Puttaparthi, India	0
GPU accelerated suffix array construction for large genome sequences	DIwakar Pingali K., Tanay K.C.P., Baruah P.K.	Proceedings of 2017 International Conference on Innovations in Information, Embedded and Communication Systems, ICIECS 2017	2018	0	Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, India	0
Logistic regression for polymorphic malware detection using ANOVA FTest	Kumar B.J., Naveen H., Kumar B.P., Sharma S.S., Villegas J.	Proceedings of 2017 International Conference on Innovations in Information, Embedded and Communication Systems, ICIECS 2017	2018	0	Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, India	0
An interview with Peter Pruzan on spiritual transformation in management	Pruzan P., Zsolnai L.	Journal of Management, Spirituality and Religion	2019	0	Copenhagen Business School, Denmark and Sri Sathya Sai Institute of Higher Learning, Vidyagiri Prasanthi Nilayam, Andhra	0

					Pradesh, India, Corvinus University of Budapest, Hungary and European SPES Institute, Leuven, Belgium	
Selfbeating resonant optical gyroscope with a "reflector": The possibility of high sensitivities at reduced costs	Sumukh Nandan R., Poudyal S., Srivastava S., Gowrishankar R.	Applied Optics	2019	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam 515134, India	0
Smart telemetry kit for proactive health monitoring in rural India: The journey so far and the road ahead	Babu S., Udayasankaran J.G., Krishnan B., Reddy Tamanampudi A.S., Prem Shaji S., Vishwanatham A., Raja P., Sai Sanagapati S.S.	2018 IEEE 20th International Conference on eHealth Networking, Applications and Services, Healthcom 2018	2018	0	Sri Sathya Sai Central Trust, India, SmartX Connected Products, Chennai, Dept. of Physics, Sri Sathya Sai Institute of Higher Learning, India	0
Heat and humidity induced plastic changes in body lipids and starvation resistance in the tropical fly <i>Zaprionus indianus</i> during wet and dry	Girish T.N., Pradeep B.E., Parkash R.	Journal of Experimental Biology	2018	1	Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam 515134, India, Department of Genetics, Maharshi Dayanand U	1

seasons					niversity, Rohtak 124001, India	
Sub4micron fullfield optical coherence tomography on a budget	Nandakumar H., Subramania A.K., Srivastava S.	Sadhana Academy Pr ceedings in Enginee ring Sciences	2018	1	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Anantapur, India.	0
Adapting BLE protocol for medical standard ECG transm ission	Babu S., Shaji S.P., Vish wanatham A., Sundar K.V.S., Reddy T.A.S., Sanagapati S.S.S., Mohanty S.	11th IEEE Internatio nal Conference on Advanced Networks and Teleco mmunicatio ns Systems, ANTS 2017	2018	1	Department of Physics, Sri Sathya Sai Institute of Higher Learning Prasanthi Nilayam, Andhra Pradesh, India, SmartX Connected Products PVT. LTD, Chennai, India	0
GPU accele rated video super resolution using tran sformed sp atiotempor al exemplars	Kondapalli C.P.T., Khanna S., Chandrasek aran V., Baruah P.K., Pingali D.K., Anamandra S.H.	Internatio nal Journal of Grid and Utility Computing	2019	0	Department of Mathema tics and Computer Science, Sri Sathya Sai Institute of Higher Learning, Puttaparth i, Andhra Pradesh 515134, India, GE Global Research, Bangalore, Karnataka 560066, India	0

Optimization of catiodoped nano hydroxyapatite in combination with amorphous aluminum hydroxide for defluoridation	Gupta A., Manohar C.S., Kumar B.S.	Water Science and Technology: Water Supply	2019	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam Campus, Puttaparthi, Anantapur Dist., Andhra Pradesh, India,	0
Novel Leadfree biocompatible piezoelectric Hydroxyapatite (HA)BCZT (Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.903}) nanocrystal composites for bone regeneration	Manohar C.S., Kumar B.S., Sadhu S.P.P., Srimadhs.K., Muthukumar V.S., Venketesh S., Varma K.B.R.	Nanotechnology Reviews	2019	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam Campus, Puttaparthi, Anantapur, Andhra Pradesh 515134, India, Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam Campus Puttaparthi,	0
Synthesis of diarylidene cyclohexanone derivatives as potential anti-inflammatory leads against COX2/mPGES1	Kar S., Rammamorthy G., Sinha S., Ramanan M., Polaj.K., Golakoti N.R., Nanubolu J.B., Sahoo	New Journal of Chemistry	2019	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, India, Bioengineering	0

and 5LOX	S.K., Dandamudi R.B., Doble M.				g and Drug Design Lab, Department of Biotech nology, Bhupat and Jyoti Mehta School of Bioscience s, Indian Institute of Technol ogy, Madras, Indi	
Reproducti ve fitness of Drosophila is maximised by optimal developmen tal temper ature	Klepsatel P., Girish T.N., Dircksen H., Galikova M.	Journal of Experiment al Biology	2019	0	Institute of Zoology, Slovak Academy of Sciences, Dúbravská cesta 9, 845 06 Bra tislava, Slovakia, Department of Bioscie nces, Sri Sathya Sai Institute of Higher Learning, 515134 Prasanthi Nilayam, India, Department of Zoology, Stockholm University , Sv	0
Multiple C ategorical Covariates Based Mult inomial Dynamic Response Model	Rao R.P., Sutradhar B.C.	Sankhya A	2019	0	Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, India, Carleton U niversity, Ottawa, Canada,	0

					Memorial University St. John's Canada	
SiCl ₄ mediated one pot synthesis of novel Spirobenzopyrans as potent anticancer agents	Kar S., Shivalingegowda N., Krishnappagowda L.N., Golakoti N.R.	New Journal of Chemistry	2019	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, India, Department of Physics, School of Engineering Technology, Jain University, Bangalore 562 112, India, Department of Studies in Physics, Manasagangothri, Un	0
Titanate nanobelts-a promising nanosorbent for defluoridation of drinking water	Chinnakoti P., Kurdekar A.D., Avinash Chunduri L.A., Aditha S., Biswas A., Mthukonda S.V., Kamiseti V.	Separation Science and Technology (Philadelphia)	2019	0	Laboratories for Nanoscience and Nanotechnology Research, Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, India, Andhra Pradesh Medtech Zone, AMTZ, Vishakhapatnam, India, Nanocatalys	0

					is and Solar Fuels Research	
Segmentation and classification of CT renal images using deep networks	Reddy A.K., Vikas S., Raghunatha Sarma R., Shenoy G., Kumar R.	Advances in Intelligent Systems and Computing	2019	0	Sri Sathya Sai Institute of Higher Learning, Anantapur, India	0
Exploring image classification of thyroid ultrasound images using deep learning	Sai Sundar K.V., Rajamani K.T., Siva Sankara Sai S.	Lecture Notes in Computational Vision and Biomechanics	2019	0	Sri Sathya Sai Institute of Higher Learning, Puttaparthi, India, Robert Bosch, Bangalore, India	0
Efficient segmentation of medical images using dilated residual networks	Bonta L.R., Uday Kiran N.	Lecture Notes in Computational Vision and Biomechanics	2019	0	Sri Sathya Sai Institute of Higher Learning, Anantapur, India	0
Platinum nanoparticle-decorated graphene modified glassy carbon electrode toward the electrochemical determination of ascorbic acid, dopamine, and paracetamol	Kumar M.A., Lakshminarayanan V., Ramamurthy S.S.	Comptes Rendus Chimie	2019	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prashanthi Nilayam 515134, India, Raman Research Institute, C.V. Raman Avenue, Bangalore 560080, India	0
Screening sediment samples used as	Aiyer K.S., Vijayakumar B.S.	Biotechnology Letters	2019	1	Department of Biosciences, Sri Sathya Sai	0

anolytes in microbial fuel cells for microbial electron transfer activity using DREAM assay					Institute of Higher Learning, Puttapparthi, India.	
Drug repurposing of novel quinoline acetohydrazide derivatives as potent COX2 inhibitors and anticancer agents	Manohar C.S., Manikandan A., Sridhar P., Sivakumar A., Siva Kumar B., Reddy S.R.	Journal of Molecular Structure	2018	4	Sri Sathya Sai Institute of Higher Learning, Prashanthi Nilayam, A.P, 51513, India, Department of Biotechnology, School of Biosciences and Technology, VIT University, Vellore, 632014, India, Department of Chemistry, School of Advanced Sciences, VIT U	3
Application of nanotechnology in biosensors for enhancing pathogen detection	Sposito A.J., Kurdekar A., Zhao J., Hewlett I.	Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology	2018	4	Laboratory of Molecular Virology, Center for	4
Nonlinear optical properties of leadfree ferroelectric nanostr	Sadhu S.P.P., Jaschin P.W., Perumbilavil S., Thomas A.R., Sai	Applied Physics B: Lasers and Optics	2018	4	Department of Physics, Sri Sathya Sai Institute of Higher	2

uctured perovskite	Muthukumar V., Philip R., Varma K.B.R.					Learning, Anantapur, India, Materials Research Centre, Indian Institute of Science, Bangalore, India, Light and Matter Physics Group, Raman Research Institute, Bangalore, India	
Synthesis and characterization of PANiCoFe ₂ O ₄ nanocomposite and its gas sensing application	Lavanya Rathi P., Hemalatha J.	AIP Conference Proceedings	2019	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Anantapur Campus, Anantapur 515001, India, Department of Physics, National Institute of Technology, Tiruchirappalli 620015, India	0	
Doping and temperature dependent thermoelectric properties of NaNbO ₃	Chowdary B., Molli M.	AIP Conference Proceedings	2018	0	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, India 515134	0	
Characteri	Siddaramap	BMC	2018	0	Institute	0	

zation of bla CTXM sequences of Indian origin and thirteen uropathogenic Escherichia coli isolates resistant to multiple antibiotics	pa S., Pullela K., Thimmappa B., Devkota R., Bajaj R., Manivannan B., Mahalingam N., Pradeep B.E.	Research Notes				of Bioinformatics and Applied Biotechnology, Biotech Park, Electronic City, Bengaluru, Karnataka, India, Sri Sathya Sai Institute of Higher Learning, Vidyagiri, Prasanthi Nilayam, Andhra Pradesh, India, Sri Sathya Sai Institute of Higher Me
Evaluating Training Time of Inceptionv3 and Resnet 50,101 Models using TensorFlow across CPU and GPU	Sai Sundar K.V., Bonta L.R., Reddy A.K.B., Baruah P.K., Sankara S.S.	Proceedings of the 2nd International Conference on Electronics, Communication and Aerospace Technology , ICECA 2018	2018	0	Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, India	0
Microbial cyclic ?(1 ? 3),(1 ? 6)glucans as potential drug carriers: Interaction studies between cyclic ?glucans isolated from Bradyrhizobium japonicum and	Kambhampati N.S.V., Kar S., Pinnepalli S.S.K., Chelli J., Doble M.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2018	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam 515134, Andhra Pradesh, India, Department of Biotechnology, Bhupat and	0

betulinic acid					Jyoti Mehta School of Biosciences, Indian Institute of Technology Madras, Chennai 600036, T	
Interaction studies of lead(II) ion with cyclic β (1 \rightarrow 3), (1 \rightarrow 6) glucans extracted from Bradyrhizobium japonicum based on 'chelation enhanced fluorescence' (CHEF) effect	Visweswar K.N.S., Sunil A., Sri Harsha A., Janardhana C.	Luminescence	2018	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam 515134, Andhra Pradesh, India,	0
Detection of antibiotic resistance determinants and their transmissibility among clinically isolated carbapenem resistant Escherichia coli from South India	Mahalingam N., Manivannan B., Khamari B., Siddaramappa S., Adak S., Bulagonda E.P.	Medical Principles and Practice	2018	0	Department of Microbiology, Sri Sathya Sai Institute of Higher Medical Sciences, Puttaparthi, India, Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Puttaparthi, India, Institute of Bioinformatics and Applied Biotechnology, Be	0
Dispiropyridinylp	Arumugam N.,	Bioorganic and	2019	0	Department of	0

<p>iperidone embedded in dendro[1,2b]quinoxaline heterocyclic hybrids: Synthesis, cholinesterase inhibitory activity and their molecular docking simulation</p>	<p>Almansour A.I., Kumar R.S., Kotresha D., Saiswaroop R., Venketesh S.</p>	<p>Medicinal Chemistry</p>			<p>Chemistry, College of Science, King Saud University, P.O. Box 2455, Riyadh 11451, Saudi Arabia, Department of Microbiology, East West Group of Institution, No. 63, Anjananagar, Vishwaneedam Post, Bangaluru 560091, Karnataka, India, Depa</p>	
<p>Nanostructured DiatomZrO2 composite as a selective and highly sensitive enzyme free electrochemical sensor for detection of methyl parathion</p>	<p>Gannavarapu K.P., Ganesh V., Thakkar M., Mitra S., Dandamudi R.B.</p>	<p>Sensors and Actuators, B: Chemical</p>	<p>2019</p>	<p>0</p>	<p>Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam Campus, Puttaparthi, Anantapur Dist., Andhra Pradesh, India, Electrode and Electroanalysis Division, CSIR Central Electrochemical Research Institute, Karaikudi,</p>	<p>0</p>
<p>Nonlinear optical transmission</p>	<p>Molli M., Chowdary B., Gowris</p>	<p>AIP Conference Proceeding</p>	<p>2019</p>	<p>0</p>	<p>Department of Physics,</p>	<p>0</p>

of nanocrystalline Cu ₂ Se in the ultrafast excitation regime	hankar R., Muthukumar V.S.	s			Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, India 515134	
Streptavidin conjugated gold nanoclusters as ultrasensitive fluorescent sensors for early diagnosis of HIV infection	Kurdekar A.D., Chunduri L.A.A., Manohar C.S., Haleyurgirisetty M.K., Hewlett I.K., Venkataramaniah K.	Science Advances	2018	4	Laboratories for Nanoscience and Nanotechnology Research, Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, Andhra Pradesh, India, Andhra Med Tech Zone, Hill No. 2, IT Park Madhurwada, Rushikonda, Vishakhapatnam, A	4
Bandgap engineered (tin carbon codoped) bismuth titanate nanowires for improved visible light assisted photocatalytic application	Saai Harini R., Easwaramoorthy D., Sai Muthukumar V., Gowrishankar R., Anandan S.	Environmental Nanotechnology, Monitoring and Management	2019	1	Department of Chemistry, B.S Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai, 600048, Tamil Nadu, India, Department of Physics, Sri Sathya	0

					Sai Institute of Higher Learning, Prashanthi Nilayam, Puttaparthi, 515 134, Andhra	
Highly functionalized 2-amino-4H pyrans as potent cholinesterase inhibitors	Kumar R.S., Almansour A.I., Arumugam N., Althamili D.M., Basiri A., Kotresha D., Manohar T.S., Venketesh S., Asad M., Asiri A.M.	Bioorganic Chemistry	2018	3	Department of Chemistry, College of Sciences, King Saud University, P.O. Box 2455, Riyadh 11451, Saudi Arabia, Department of Pharmaceutical Sciences, College of Pharmacy, University of Nebraska Medical Center, Omaha, NE 68198, United States, Department	1
HBBasechain DB - A scalable blockchain framework on Hadoop ecosystem	Sahoo M.S., Baruah P.K.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2018	2	Sri Sathya Sai Institute of Higher Learning, Anantapur, India	1
Soluplus enhances many fold the dissolution	Patnaik S., Chunduri L.A.A.,	Journal of Bionanoscience	2018	0	Department of Mathematics, Andhra Uni	0

<p>ution characteristic of ibuprofen through ibuprofenol plus nano formulations</p>	<p>Kurdekar A., Prathibha C., Krishna V.S.V., Aditha S.K., Venkataramaniah K.</p>				<p>iversity, Visakhapatnam, India, Department of Mathematics and Computer Science, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, India, AlpenAdriaUniversity, Klagenfurt, Austria</p>
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<p>Ethnobotany: A bridge between traditional knowledge and biotechnological studies on medicinal and aromatic plants</p>	<p>Vishwanathan A.S.</p>	<p>Biotechnological Approaches for Medicinal and Aromatic Plants: Conservation, Genetic Improvement and Utilization</p>	<p>2018</p>	<p>0</p>	<p>Department of Physics, Sri Sathya Sai Institute of Higher Learning,</p>	<p>0</p>
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<p>GPU accelerated suffix array construction for large genome sequences</p>	<p>DIwakar Pingali K., Tanay K.C.P., Baruah P.K.</p>	<p>Proceedings of 2017 International Conference on Innovations in Information, Embedded and Communication Systems, ICIIECS 2017 Proceedings of 2017 International Conference on Innovations in Information, Embedded and Communication</p>	<p>2018</p>	<p>0</p>	<p>Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Puttaparthi, India</p>	<p>0</p>
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		Systems, ICIIECS 2017				
Logistic regression for polymorphic malware detection using ANOVA FTest	Kumar B.J., Naveen H., Kumar B.P., Sharma S.S., Villegas J.	Proceedings of 2017 International Conference on Innovations in Information, Embedded and Communication Systems, ICIIECS 2017	2018	0	Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, India	0
Synergistic Hybrid Catalyst for Ethanol Detection: Enhanced Performance of Platinum Palladium Bimetallic Nanoparticles Decorated Graphene on Glassy Carbon Electrode	Kumar M.A., Patnaik S.G., Lakshminarayanan V., Ramamurthy S.S.	Journal of Analytical Chemistry	2018	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prashanthi Nilayam, A.P India, Soft Condensed Matter Laboratory, Raman Research Institute, Bangalore, Karnataka India	0
Ionic liquid enabled synthesis, cholinesterase inhibitory activity, and molecular docking study of highly functionalized tetrasubstituted pyrrolidines	Kumar R.S., Almansour A.I., Arumugam N., Althomili D.M.Q., Altaf M., Basiri A., Kotresha D., Sai Manohar T., Venketesh S.	Bioorganic Chemistry	2018	6	Department of Chemistry, College of Science, King Saud University, P.O. Box 2455, Riyadh 11451, Saudi Arabia, Central Laboratory, College of Science, King Saud University	1

					, P.O. Box 2455, Riyadh 11451, Saudi Arabia, Department of Pharmac eutical Sci	
Spiropyrr olidine, sp iroindoliz ino[6,7b]i ndole hete rocyclic hybrids: S tereoselec tive synthesis, cholineste rase inhibitory activity and their molecular docking study	Arumugam N., Almansour A.I., Suresh Kumar R., Altaf M., Padmanaban R., Sureshbabu P., Angamuthu G., Kotresha D., Manohar T.S., Venketesh S.	Bioorganic Chemistry	2018	5	Department of Chemistry, College of Science, King Saud University , P.O. Box 2455, Riyadh 11451, Saudi Arabia, Central La boratory, College of Science, King Saud University , P.O. Box 2455, Riyadh 11451, Saudi Arabia, Department of Chemistry, School of	0
An in silico design of bioavailab ility for kinase inhibitors evaluating the mechan istic rationale in the CYP metabolism of erlotinib	Chelli S.M., Gupta P., Belliraj S.K.	Journal of Molecular Modeling	2019	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Puttaparth i, India, Department of Chemistry, IIT Madras, Chennai, India	0
Effect of	Rai R.,	Journal of	2019	0	Department	0

La doping on structural, magnetic, and optical properties of KBiFe ₂ O ₅	Molli M.	Materials Science: Materials in Electronics			of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthinilayam, India	
Synergistic Hybrid Catalyst for Ethanol Detection: Enhanced Performance of Platinum Palladium Bimetallic Nanoparticles Decorated Graphene on Glassy Carbon Electrode	Kumar M.A., Patnaik S.G., Lakshminarayanan V., Ramamurthy S.S.	Journal of Analytical Chemistry	2018	0	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prashanthi Nilayam, A.P India, Soft Condensed Matter Laboratory, Raman Research Institute, Bangalore, Karnataka India	0
Enhanced dielectric properties and energy storage density of surface engineered BCZT, PVDFHFP nanodielectrics	Sadhu S.P.P., Siddabattuni S., Muthukumar V.S., Varma K.B.R.	Journal of Materials Science: Materials in Electronics	2018	2	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Anantapur, India, Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Anantapur, India, Materials Research Centre, Indian Institute of	2

					Science, Bangalore, India.	
The effect of functional group polarity in palladium immobilized multiwalled carbon nanotube catalysis: Application in carbon carbon coupling reaction	Chandra B.P., Wu Z., Ntim S.A., Rao G.N., Mitra S.	Applied Sciences (Switzerland)	2018	2	Department of Chemistry, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam 515134, India, School of Science, Technology, Engineering and Mathematics, University of Washington Bothell, Bothell, WA 98011, USA, Department of Chemistry and	2
Fast video super resolution using deep convolutional networks	Chaitanya Pavan Tanay K., Khanna S., Chandrasekaran V., Baruah P.K.	Proceedings of 2017 International Conference on Innovations in Information, Embedded and Communication Systems, ICIECS 2017	2018	1	Department of Mathematics Computer Science, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, India	1
The photocatalytic role of electrodeposited copper on pencil graphite	Arathi P.J., Bhaskar S., Rajendra Kumar Reddy G., Suresh Kumar P., Ramanathan V.	Physical Chemistry Chemical Physics	2018	1	Department of Chemistry, SASTRA Deemed to be University, Thanjavur, India, Department of	0

					Chemistry, SSSIHL, Prasanthi Nilayam, Anantapur, India	
Facile onepot hydrothermal synthesis of stable and biocompatible fluorescent carbon dots from lemon grass herb	Thota S.P., Thota S.M., Bhagavatham S.S., Manoj K.S., Muthukumar V.S.S., Venketesh S., Vadlani P.V., Belliraj S.K.	IET Nanotechnology	2018	1	Sri Sathya Sai Institute of Higher Learning, India, Kansas State University, USA	1
Heat and humidity induced plastic changes in body lipids and starvation resistance in the tropical fly <i>Zaprionus indianus</i> during wet and dry seasons	Girish T.N., Pradeep B.E., Parkash R.	Journal of Experimental Biology	2018	1	Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam 515134, India, Department of Genetics, Maharshi Dayanand University, Rohtak 124001, India	1
Sub4micron fullfield optical coherence tomography on a budget	Nandakumar H., Subramania A.K., Srivastava S.	Sadhana Academy Proceedings in Engineering Sciences	2018	1	Department of Physics, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Anantapur, India.	0
Adapting BLE	Babu S., Shaji	11th IEEE Internatio	2018	1	Department of	0

protocol for medical standard ECG transmission	S.P., Vishwanatham A., Sundar K.V.S., Reddy T.A.S., Sanagapati S.S.S., Mohanty S.	International Conference on Advanced Networks and Telecommunications Systems, ANTS 2017			Physics, Sri Sathya Sai Institute of Higher Learning Prasanthi Nilayam, Andhra Pradesh, India, SmartX Connected Products PVT. LTD, Chennai, India	
Fragmentation aware routing, wavelength and spectrum assignment (RWSA) scheme in flexgrid optical networks	Dutta R., Krishna S.S., Gowrishankar R., Subhanu G.J., Sanagapati S.S.S., Behere P.P., Bhyri S.K.	11th IEEE International Conference on Advanced Networks and Telecommunications Systems, ANTS 2017	2018	1	Sri Sathya Sai Institute of Higher Learning, India, Cisco Systems Inc., Bangalore, India	1
Novel diatomFeOx composite as highly active catalyst in photodegradation of Rhodamine6G	Gannavarapu K.P., Thakkar M., Veerapaga S., Wei L., Dandamudi R.B., Mitra S.	Nanotechnology Reviews	2018	1	Newark, NJ 07102, USA, Department of Chemistry and Environmental Science, New Jersey Institute of Technology, 151 Tiernan Hall, Newark, NJ 07102, USA	0
The enigma of biofilms	Aiyer K.S., Vijayakumar B.S., Vishwanathan A.S.	Current Science	2018	1	Department of Biosciences, Sri Sathya Sai Institute of Higher Learning, Prasanthi Nilayam, Puttaparthi 515 134,	0

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Super dielectric property observed in nanocomposite of magnetic iron oxide and tin oxide	Dr. Deepa S.	AIP Conference Proceedings	2019	0	0	0
Synthesis and characterization of PANICoFe ₂ O ₄ nanocomposite and its gas sensing application	Hemalatha J	AIP Conference Proceedings	2019	0	0	0
Design, synthesis, and biological evaluation of new 12s substituted 14deoxyandrogrographolide derivatives as apoptosis inducers	Golakoti N.R.	Chemical Papers	2019	1	1	1
SiCl ₄ mediated one pot synthesis of novel spirobenzopyrans as potent anticancer agents	Golakoti N.R.	New Journal of Chemistry	2019	1	0	0
Synthesis	Golakoti	New	2019	1	0	0

of diaryli denecyclo hexanone de rivatives as potential antiinflam matory leads against CO X2/mPGES1 and 5LOX	N.R.	Journal of Chemistry				
A novel lo ssoffuncti on mutation in HACE1 is linked to a genetic disorder in a patient from India	Dr. B. E. Pradeep	Human Genome Variation	2018	1	2	2
Comparativ e genomic analysis of a naturally competent Elizabethk ingia anophelis isolated from an eye infection	Dr. B. E. Pradeep	Scientific Reports	2018	1	0	0
Microbial cyclic ?(1 ? 3),(1 ? 6)glucans as potential drug carriers: Interactio n studies between cyclic ?glucans isolated from Brady rhizobium japonicum and betulinic acid	Prof. Chelli Janardhana	Spectrochi mica Acta Part A: Molecular and Biomol ecular Spe ctroscopy	2018	0	0	0

Interaction studies of lead(II) ion with cyclic $\beta(1 \rightarrow 3)$, $\beta(1 \rightarrow 6)$ glucans extracted from Bradyrhizobium japonicum based on 'chelation enhanced fluorescence' (CHEF) effect	Prof. Chelli Janardhana	Luminescence	2018	0	0	0
Ethnomedicinal importance of Adhatoda vasica in the south East Asian countries: Review and perspectives	Prof. R Basavaraju	Studies on Ethnomedicine	2018	0	0	0
An empirical investigation of implementing Lean Six Sigma in Higher Education Institutions	Dr. Mahalingam S.	International Journal of Quality and Reliability Management	2018	1	4	2
Additional food supplements as a tool for biological conservation of predator-prey systems involving type III functional response: A qualitative and quantitative	Dr. D.K.K. Vamsi	Journal of Theoretical Biology	2018	1	1	1

investigation						
Biological Conservation of Living Systems by Providing Additional Food Supplements in the Presence of Inhibitory Effect: A Theoretical Study Using Predator-Prey Models	Dr. D.K.K. Vamsi	Differential Equations and Dynamical Systems	2018	1	0	0
Streptavidin conjugated gold nanoclusters as ultrasensitive fluorescent sensors for early diagnosis of HIV infection	Prof. Venkatararamaniah K.	Science Advances	2018	1	4	4
Soluplus [®] enhances many fold the dissolution characteristic of ibuprofen through ibuprofen soluplus nano formulations	Prof. Venkatararamaniah K.	Journal of Bionanoscience	2018	1	0	0
Physicochemical characterization of drug-biosurfactant micellar system: A road for	Dr. C. N. Sundaresan	Journal of Molecular Liquids	2018	1	1	1

developing better pharmaceutical formulations						
Sub4micron fullfield optical coherence tomography on a budget	Dr. Shailesh Srivastava	Sadhana Academy Proceedings in Engineering Sciences	2018	1	1	0
Large nonlinear refraction in pulsed laser deposited BCZT thin films on quartz substrates	Prof. K. B. R. Verma	Journal of the Optical Society of America B: Optical Physics	2018	2	1	1
Nonlinear optical properties of leadfree ferroelectric nanostructured perovskite	Prof. K. B. R. Verma	Applied Physics B: Lasers and Optics	2018	2	4	2
Enhanced dielectric properties and energy storage density of surface engineered BCZT/PVDFHFP nanodielectrics	Prof. K. B. R. Verma	Journal of Materials Science: Materials in Electronics	2018	2	2	3
LowCost Plasmonic Carbon Spacer for Surface PlasmonCoupled Emission Enhancement and Ethanol Detection: a Smartphone	Dr. Prathap Chandran	Plasmonics	2018	1	2	2

Approach						
LowCost Plasmonic Carbon Spacer for Surface PlasmonCoupled Emission Enhancement s and Ethanol Detection: a Smartphone Approach	Dr. Molli M.	Plasmonics	2018	1	2	2
Interaction studies of lead(II) ion with cyclic β (1 \rightarrow 3), (1 \rightarrow 6) glucans extracted from Bradyrhizobium japonicum based on 'chelation enhanced fluorescence' (CHEF) effect	Dr. Sunil, A.	Luminescence	2018	0	0	0
Bandgap engineered (tin and carbon codoped) bismuth titanate nanowires for improved visiblelight assisted photocatalytic application	Dr. Sai Muthukumar V	Environmental Nanotechnology, Monitoring and Management	2019	0	0	0
Nonlinear optical transmission of nanocrystalline Cu ₂ Se in	Dr. Sai Muthukumar V	AIP Conference Proceedings	2019	0	0	0

the ultrafast excitation regime						
Third order nonlinear optical properties of ? enhanced PVDF based nanocomposite thin films	Dr. Sai Muthukumar V	Journal of Materials Science: Materials in Electronics	2019	0	0	0
Investigation of nonlinear optical and photocatalytic properties of sol-gel derived KBiFe ₂ O ₅	Dr. Sai Muthukumar V	Journal of Materials Science: Materials in Electronics	2019	0	0	0
Novel Leadfree biocompatible piezoelectric Hydroxyapatite (HA)BCZT (Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.9} O ₃) nanocrystal composites for bone regeneration	Dr. Sai Muthukumar V	Nanotechnology Reviews	2019	0	0	0
Nonlinear optical transmission of nanocrystalline Cu ₂ Se in the	Dr. Molli M.	AIP Conference Proceedings	2019	0	0	0

ultrafast excitation regime						
Investigation of nonlinear optical and photocatalytic properties of sol-gel derived KBiFe_2O_5	Dr. Molli M.	Journal of Materials Science: Materials in Electronics	2019	0	0	0
Effect of La doping on structural, magnetic, and optical properties of KBiFe_2O_5	Dr. Molli M.	Journal of Materials Science: Materials in Electronics	2019	0	0	0
Bandgap engineered (tin and carbon codoped) bismuth titanate nanowires for improved visible light assisted photocatalytic application	Dr. Gowrishankar R	Environmental Nanotechnology, Monitoring and Management	2019	0	0	0
Super dielectric property observed in nanocomposite of magnetic iron oxide and tin oxide	Dr. Gowrishankar R	AIP Conference Proceedings	2019	0	0	0
Nonlinear optical transmission of nanocrystals	Dr. Gowrishankar R	AIP Conference Proceedings	2019	0	0	0

stalline C u ²⁺ Se in the ultrafast excitation regime						
Third order nonlinear optical properties of ? enhanced PVDF based nanocompos ite thin films	Dr. Gowris hankar R	Journal of Materials Science: Materials in Electro nics	2019	0	0	0
Selfbeatin g resonant optical gyroscope with a "re flector": The possib ility of high sensi tivities at reduced costs	Dr. Gowris hankar R	Applied Optics	2019	0	0	0
Screening sediment samples used as anolytes in microbial fuel cells for microbial electron transfer activity using DREAM assay	Dr. Vijaya kumar B.S.	Biotechnol ogy Letters	2019	1	0	0
Assessing Activity of Antimic robial Agents and Screening Antibiotic Resistant Bacteria Through	Dr. Vijaya kumar B.S.	Applied Bi ochemistry and Biotec hnology	2019	1	1	0

DREAM Assay						
An improvised microtiter dish biofilm assay for noninvasive biofilm detection on microbial fuel cell anodes and studying biofilm growth conditions	Dr. Vijaya kumar B.S.	Brazilian Journal of Microbiology	2019	1	0	0
Papermicrofluidics based SERS substrate for PPB level detection of catechol	Dr. Belliraj S.K	Optical Materials	2019	0	0	0
An in silico design of bioavailability for kinase inhibitors evaluating the mechanistic rationale in the CYP metabolism of erlotinib	Dr. Belliraj S.K	Journal of Molecular Modeling	2019	0	0	0
Optimization of cati ondoped nano hydroxyapatite in combination with amorphous aluminum hydroxide for defluoridation	Dr. Belliraj S.K	Water Science and Technology: Water Supply	2019	0	0	0
Enhanced p	Prof.	Journal of	2019	0	0	0

<p>piezoelectric properties of Sr_{1.7}(Na_{0.5}Bi_{0.5})_{0.3}Bi₄Ti₅O₁₈ ceramics in the system Sr_(2x)(Na_{0.5}Bi_{0.5})_x</p>	<p>Varma K. B. R</p>	<p>the American Ceramic Society</p>				
<p>Polymer composite of poly(vinylidene fluoride) 2methyl 4nitroaniline via hot pressing technique Structural, optical and electrical properties</p>	<p>Prof. Varma K. B. R</p>	<p>Materials Research Express</p>	<p>2019</p>	<p>0</p>	<p>0</p>	<p>0</p>
<p>Novel Leadfree biocompatible piezoelectric Hydroxyapatite (H)BCZT (Ba_{0.85}Ca_{0.15}Zr_{0.1}Ti_{0.9}O₃) nanocrystals</p>	<p>Prof. Varma K. B. R</p>	<p>Nanotechnology Reviews</p>	<p>2019</p>	<p>0</p>	<p>0</p>	<p>0</p>

tal composites for bone regeneration						
Dispiropyrolidinyloperidone embedded indenodeno[1,2b]quinoxaline heterocyclic hybrids: Synthesis, cholinesterase inhibitory activity and their molecular docking simulation	Dr. Venketesh S.	Bioorganic and Medicinal Chemistry	2019	0	0	0
Novel Leadfree biocompatible piezoelectric Hydroxyapatite (HA)BCZT (Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.9} O ₃) nanocrystal composites for bone regeneration	Dr. Venketesh S.	Nanotechnology Reviews	2019	0	0	0
Nanostructured DiatomZrO ₂ composite as a selective and highly sensitive enzyme free electrochemical	Dr. D Rajesh Babu	Sensors and Actuators, B: Chemical	2019	0	0	0

sensor for detection of methyl parathion						
Surface-enhanced Raman scattering platform operating over wide pH range with minimal chemical enhancement effects: Test case of tyrosine	Ramamurthy S.S.,	Journal of Raman Spectroscopy	2019	0	0	0
Artifact-free robust single-shot background subtraction for optical coherence tomography	Dr. Srivastava S.	OSA Continuum	2019	0	0	0
Self-beating resonant optical gyroscope with a "reflector": The possibility of high sensitivities at reduced costs	Dr. Srivastava S.	Applied Optics	2019	0	0	0
Blended learning-assisted authentic data into deep learning models	Dr. Baruah P.K.	Proceedings 25th IEEE International Conference on High Performance Computing Workshops, HiPCW 2018	2019	0	0	0
GPU accelerated video super resolution	Dr. Baruah P.K.	International Journal of Grid and Utility	2019	0	0	0

using transformed spatiotemporal exemplars		Computing				
Multiple Categorical Covariates Based Multinomial Dynamic Response Model	Prof. R. Prabhakar Rao	Sankhya A	2019	0	0	0
Titanate nanobelts—a promising nanosorbent for defluoridation of drinking water	Prof. Venkataramaniah Kamisetti	Separation Science and Technology (Philadelphia)	2019	0	0	0
Smart and Wearable ECG monitoring system as a Point of Care (POC) device	Prof. Siva Sankara Sai	International Symposium on Advanced Networks and Telecommunication Systems, ANTS	2019	0	0	0
Reproductive fitness of Drosophila is maximised by optimal developmental temperature	Girish T N	Reproductive fitness of Drosophila is maximised by optimal developmental temperature	2019	0	0	0
Highly functionalized 2-amino-4H-pyrans as potent cholinesterase inhibitors	Dr. S. Venketesh	Bioorganic Chemistry	2018	3	3	1
Spiropyroline/spiroindolizino[6,7b]indole heterocyclic	Dr. S. Venketesh	Bioorganic Chemistry	2018	3	5	0

hybrids: Stereoselective synthesis, cholinesterase inhibitory activity and their molecular docking study						
Ionic liquid enabled synthesis, cholinesterase inhibitory activity, and molecular docking study of highly functionalized tetrasubstituted pyrrolidines	Dr. S. Venketesh	Bioorganic Chemistry	2018	3	6	1
Facile one-pot hydrothermal synthesis of stable and biocompatible fluorescent carbon dots from lemon grass herb	Dr. S. Venketesh	IET Nanotechnology	2018	3	1	1
Microwave Assisted Biogenic Synthesis of Metal Decorated Reduced Graphene Oxide and their Electrochemical Properties.	Dr. D Rajesh Babu	Chemistry & Elect	2018	1	1	1
Shape engineered	Dr. D Rajesh	International	2018	1	0	0

three dimensional Fe ₂ O ₃ activated carbon nano composite as enhanced electrochemical super capacitor electrode material	Babu	Journal of Energy Research				
Novel diamFeO _x composite as highly active catalyst in photodegradation of Rhodamine 6G	Dr. D Rajesh Babu	Nanotechnology Reviews	2018	1	1	0
Synthesis, mechanistic and synergy studies of diarylidene cyclohexanone derivatives as new antiplasmodial pharmacophores	Dr. D Rajesh Babu	Medicinal Chemistry Research	2018	1	0	0
Smartphone Plasmonics for Doxycycline Detection with Silver Lignin Biospacer at Attomolar Sensitivity	Dr. R. Sai Satish	Plasmonics	2018	1	0	0
Low Cost Plasmonic Carbon Spacer for	Dr. R. Sai Satish	Plasmonics	2018	1	2	2

Surface Plasmon Coupled Emission Enhancement and Ethanol Detection: a Smartphone Approach						
Synergistic Hybrid Catalyst for Ethanol Detection: Enhanced Performance of Platinum Palladium Bimetallic Nanoparticles Decorated Graphene on Glassy Carbon Electrode	Dr. R. Sai Satish	Journal of Analytical Chemistry	2018	1	0	0
Characterization of bla _{CTXM} sequences of Indian origin and thirteen uropathogenic Escherichia coli isolates resistant to multiple antibiotics	Dr. B. E. Pradeep	BMC Research Notes	2018	1	0	0
Heat and humidity induced plastic changes in body lipids and starvation resistance in the tropical	Dr. B. E. Pradeep	Journal of Experimental Biology	2018	1	1	1

fly Zaprionus indianus during wet and dry seasons						
Detection of antibiotic resistance determinan ts and their tran smissibili ty among clinically isolated c arbapenemr esistant E scherichia coli from South India	Dr. B. E. Pradeep	Scientific Reports	2018	1	0	0
Surveillan ce, auditing, and feedback can reduce surgical site infection dramatical ly: Toward zero surgical site infection	Dr. B. E. Pradeep	Surgical Infections	2018	1	0	0
Large nonlinear refraction in pulsed laser deposited BCZT thin films on quartz substrates	Dr. V. S. Muthu Kumar	Journal of the Optical Society of America B: Optical Physics	2018	2	1	1
Nonlinear optical properties of leadfree f erroelectr ic nanostr uctured	Dr. V. S. Muthu Kumar	Applied Physics B: Lasers and Optics	2018	2	4	2

perovskite						
Enhanced dielectric properties and energy storage density of surface engineered BCZT/PVDFHFP nanodielectrics	Dr. V. S. Muthu Kumar	Journal of Materials Science: Materials in Electronics	2018	2	2	2
LowCost Plasmonic Carbon Spacer for Surface PlasmonCoupled Emission Enhancement and Ethanol Detection: a Smartphone Approach	Dr. V. S. Muthu Kumar	Plasmonics	2018	2	2	2
Facile onepot hydrothermal synthesis of stable and biocompatible fluorescent carbon dots from lemon grass herb	Dr. V. S. Muthu Kumar	IET Nanotechnology	2018	2	1	1
MicrowaveAssisted Biogenic Synthesis of MetalDecorated Reduced Graphene Oxide and their Electrochemical Properties.	Dr. V. S. Muthu Kumar	ChemistrySelect	2018	2	1	1
Facile onepot hydrothermal synthesis	Dr. B. Siva Kumar	IET Nanotechnology	2018	2	1	1

of stable and biocompatible fluorescent carbon dots from lemon grass herb						
Drug repurposing of novel quinoline acetohydrazide derivatives as potent COX2 inhibitors and anticancer agents	Dr. B. Siva Kumar	Journal of Molecular Structure	2018	2	4	3
Dielectric properties study of surface engineered nano TiO ₂ /epoxy composites	Dr. B. Siva Kumar	Bulletin of Materials Science	2018	2	2	2
The effect of functional group polarity in palladium immobilized multiwalled carbon nanotube catalysis: Application in carbon-carbon coupling reaction	Prof. G. Nageswara Rao	Applied Sciences (Switzerland)	2018	2	2	2
Ethnomedicinal importance of Adhatoda vasica in the south East Asian countries:	Prof. G. Nageswara Rao	Studies on Ethnomedicine	2018	2	0	0

Review and perspectives						
Synthesis, mechanistic and synergy studies of diarylidene cyclohexanone derivatives as new antiplasmodial pharmacophores	Prof. G. Nageswara Rao	Medicinal Chemistry Research	2018	2	0	0
In silico modeling and synthesis of phenyl and thienyl analogs of chalcones for potential leads as antibacterial agents	Prof. G. Nageswara Rao	Journal of Molecular Structure	2018	2	3	3
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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	57	26	1	2
Presented papers	57	26	1	2
Resource persons	1	0	0	0
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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Nil	Nil	Nil	0
No file uploaded.			

3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
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NIL	NIL	NIL	0	0
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3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Cheyutha (Educational Support) (Anantapur Campus)	SSSIHL	9	48
Narayana Seva (Every month) (Anantapur Campus)	SSSIHL	21	98
Adoption of Leper Colony (Anantapur Campus)	SSSIHL	9	48
Village Empowerment Programme (Anantapur Campus)	SSSIHL	7	38
Celebrating Christmas with village children (Muddenahalli Campus)	SSSIHL	12	125
Old Age Home Visit (Muddenahalli Campus)	SSSIHL	12	125
Grama Seva (Prasanthi Nilayam Campus)	SSSIHL	45	386
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
No Data Entered/Not Applicable !!!			
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
No Data Entered/Not Applicable !!!				
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Antibiotic resistance analyses and whole genome sequencing	Prof. V. Nagaraja	JNCASR, Bengaluru	6
Redox analyses in Antibiotic Resistant bacteria	Dr. Amit Singh,	IISc, Bengaluru	4
Metabolomics	Dr. Savitri Vasudev Dr. Dash Dr. Hiremath	DSTWomen Scientist Program	1
Metabolomics	Prof. Seshagiri	IMPRINT Grant.	3
Metabolomics	Dr. Bushra Athiq	IMPRINT Grant.	1
Research	Dr. R. Sai Satish	ICMR	5
Research	Dr. R. Sai Satish	SKAN Research Lab Pvt. Ltd, Puducherry	5
Antibiotic resistance analyses and whole genome sequencing	Prof. V. Nagaraja	JNCASR, Bengaluru	6
Research	1. Lavanya Rathi P 2. Bharadwaj PSJ 3. Abhishek H	Japan Science and Technology agency	1
Research work and joint Publications	Dr V Sai Muthukumar, Sri S S Pavan Prashanth, Prof S Siva Sankara Sai	SSSIHL	1
Research work and joint Publications	Adutya Kurdekar, Prof S Siva Sankara Sai Prof K Venkataramaniah	US FDA	4
Research work and joint Publications	Prof. Siva Sankara Sai Sri M Murali Ravi	DST	2
Research work and joint Publications	Prof. Siva Sankara Sai Dr K Vijay Sai Sri M Murali Ravi	DAEBRNS	2
Research work and joint Publications	Dr V Sai Muthukumar, Prof S Siva Sankara Sai, Mr. M Muralikrishna, Prof K Venkataramaniah	Clemson University	1
Collaborative research	Dr Krishna Chaitanya V. Department of physics	SSSIHL	1

Research work and joint Publications	Dr Krishna Chaitanya V. Department of physics	SSSIHL	4
Research work	Dr. Shailesh Srivastava, Dept of Physics	SSSIHL	1
HPC Big Data	Dr.Pallav Kumar Baruah , SSSIHL	Maestro Technology Inc, New Jersey, USA	2
HPC, Data Security, Integrity Privacy in Outsourced Environment	Dr Pallav Kumar Baruah SSSIHL & Prof Ravi Mukkamala, Old Dominion State University	SSSIHL	1
Research	Prof S. Balasubramanian & Prof Vineeth Balasubramanian	IIT Hyderabad	1
Antibiotic resistance analyses and Transconjugation	Dr. S. Sivakumara Swamy	IBAB, Bengaluru	5
HPC and Performance Analysis	Dr Pallav Kumar baruah & Prof Ashok Srinivasan, University of West Florida	SSSIHL	5
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Collaborative Research	Collaborative Research - use of crystal growth facility	BARC Mumbai Dr S G Singh Dr Sashwati Sen	01/06/2018	31/05/2019	Prof S Siva Sankara Sai Dr. S. G. Singh Dr. Shashwati Sen
Industrial Partner in the DST Sponsored project	Industrial Partner in the DST Sponsored projects	K Krishna Kumar, Lightmotif Automation Sensors and Systems Pvt Ltd 198/90/26/11, Vikram Hospital	01/06/2018	31/05/2019	Dr Krishna Chaitanya V

Lane Hitech
City Main
Road,
Madhapur,
Hyderabad
500081 India
Tel: 9140400
38530,
Email: info@
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3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Twastrix a company registered in India under the Maharashtra Shops and Establishments Act 1948	15/03/2018	To set out the arrangements for collaboration between the parties for Design, Assembly and Development of Surface PlasmonCoupled Emission based Handheld and/or Benchtop Device(s) for Specrrometry and Image based Biomedical and Chemical Sensing.	62
Labby Inc., a company registered in United States of America having its registered office at 125 Chiswick Rd, Brighton, 02135, Massachusetts, USA	02/02/2018	The purpose of the agreement is to set out the arrangements for collaboration between the parties for Design, Development and Trials of Device(s) for Spectrometry and Image based Biomedical Sensing.	62
SKAN Research Lab Pvt. Ltd., (SKAN), a nongovt. company	13/11/2018	To set out the arrangements for collaboration between the parties for analysis of pharmaceutical properties of formulations	62
Devic Earth Pvt. Ltd., a company	07/07/2018	The purpose of MoU is to set out the	62

registered in India under the companies Ac	arrangements for collaborations between the parties for Design, Assembly and Development of methods and devices for evaluation and elimination of effluents using chemical and radiofrequency transmitter technology.
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
6573000	6194840

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
KOHA Prasanthi Nilayam Campus	Fully	2.29	2014
KOHA Muddenahalli Campus	Fully	2.29	2018
KOHA Brindavan Campus	Fully	18	2019
KOHA Anantapur Campus	Fully	2.29	2018

4.2.2 – Library Services

Library	Existing	Newly Added	Total
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Service Type			
No Data Entered/Not Applicable !!!			
View File			

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
No Data Entered/Not Applicable !!!			
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1138	562	1138	5	8	5	10	1000	106
Added	0	0	0	0	0	0	0	0	0
Total	1138	562	1138	5	8	5	10	1000	106

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

1000 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Multimedia Learning Centre, Sai Rocks Digital Studio	https://drive.google.com/file/d/1rjqXp1CKoPZ3Hu3NXqEDpuoOTma3tkGS/view?usp=sharing

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
7891000	7463000	7769950	7663000

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

1. Maintenance of utilization logs 2. Dedicated staff for upkeep of facilities 3. Preparation of annual asset statement 4. Supervision by a team of people 5. Annual Budgeting exercise for repairs and maintenance 6. Repairs and complaints log register
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CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Sri Sathya Sai System of Integral Education	1334	336500000
Financial Support from Other Sources			
a) National	Nil	7	360000
b) International	Nil	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Sri Sathya Sai Gurukula System (since inception)	01/06/2018	1334	SSSIHL
Mentoring at SSSIHL (since inception)	01/06/2018	1334	SSSIHL
Yogasanas and meditation (since inception)	01/06/2018	1334	SSSIHL
Residential Faculty (since inception)	01/06/2018	1334	SSSIHL
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	CATALYST	0	95	0	84
2018	Coaching for Competitive Exams	87	0	44	0
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Nil			Tata Trust, KPMG, Aditya Birla Group, Moody Analytics, Jet Synthesys, Arvidn Retail, KLA Tenor, Herald Logic	95	84
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	5	MSc Chemistry	Chemistry	SSSIHL, Japan Advanced Institute of Science and Technology, IIT Delhi	PhD, M.Tech
2018	1	M.Sc. Food and Nutritional Sciences	Food and Nutritional Sciences	SSSIHL,	Ph.D.
2018	10	MSc Mathematics	Mathematics and Computer Science	SSSIHL, IISc, IIT	PhD, M.Tech
2018	9	MSc Physics	Physics	SSSIHL, IITB, TIFR, University of Padova, Toyota Technological Institute	PhD, M.Tech, Erasmus Mundus Joint Master in Nuclear Physics
2018	16	B.Sc (Hons.) Economics	Economics	SSSIHL	M.A in Economics
2018	14	B.A	Faculty of Humanities	Sikkim University, Bharati Vidyapeeth University, SSSIHL, Christ University	Masters in Social work, MA English, MA Economics, Masters in International Relations, MA Sociology

2018	8	B.B.A	Management and Commerce	SSSIHL, Jain University, Lovely Professional University, IMI Kolkata, CFA Institute	MBA, PGDM in Finance and Marketing, Chartered Financial Analyst
2018	10	B.C.A	Mathematics & Computer Science	SSSIHL	M.Sc (Data Science & Computing)
2018	61	B.Com (Hons.)	Management & Commerce	SSSIHL, ICAI, Amrita Vishwa Vidyapeeth, Pondicherry University	MBA, Chartered Accountancy, M.Com
2018	15	B.Sc (Hons.) Biosciences	Biosciences	SSSIHL, Bharathiar University	M.Sc Biosciences, MA English Literature
2018	12	B.Sc (Hons.) Chemistry	Chemistry	SSSIHL, Indian Institute of Public Health, St. Francis College for Women	M.Sc Chemistry, Masters' of Clinical Research, M.Sc Organic Chemistry
2018	27	B.Sc (Hons.) Mathematics	Mathematics	SSSIHL, Ashoka University, Delhi University, Sri Padmavati Mahila Vishwavidyalaya, PSG College of Technology	M.Sc Mathematics, M.Sc Computer Science, M.Sc Applied Mathematics
2018	26	B.Sc (Hons.) Physics	Physics	SSSIHL, Andhra University, Madras University, Holkar Science College	M.Sc Physics, M.Sc Biophysics,
2018	13	B.Sc Food Science & Nutrition	Food & Nutritional Sciences	SSSIHL, Amrita Institute of Higher Medical Sciences,	M.Sc Food and Nutritional Sciences, M.Sc Clinical

				St. Joseph's College, Jaipur National University	Nutrition, M.Sc Home Science
2018	3	B.Sc Food Technology	Food & Nutritional Sciences	SSSIHL, Vedica Scholars Program	M.Sc Food and Nutritional Sciences, PGDM
2018	5	Integrated MCA	Mathematics & Computer Science	SSSIHL	M.Tech Computer Science
2018	4	MA English Language and Literature	English Language and Literature	SSSIHL, Anna University	PhD
2018	5	MSc Biosciences	Biosciences	SSSIHL, Katholieke Universiteit Leuven	PhD, MBA, Junior Research Fellow

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

Items	Number of students selected/ qualifying
NET	28
GATE	13
GMAT	1
TOFEL	1
Any Other	1

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

Activity	Level	Number of Participants
Collage Art	University level	8
Clay Modelling	University level	2
Creative Carving	University level	9
Creative Writing (English)	University level	7
Creative Writing (Hindi)	University level	8
Creative Writing (Telugu)	University level	8
Discuss Throw	University level	18
English Elocution	University level	17
Essay Writing	University level	3
Floor Art	University level	9
Flower Craft	University level	11
Hammer Throw	University level	18

High Jump	University level	18
Hindi Elocution	University level	16
Hindustani Classical Vocal	University level	3
Vedam	University level	2
Vedam Chanting	University level	27
Vedam Chanting (Level I)	University level	4
Vedam Chanting (Level II)	University level	2
Vedam Explanation	University level	2
Vocal Competition	University level	7
Vocal Music	University level	2
Wealth out of Waste	University level	10
Yoga Competition	University level	5
4 x 100m Relay	University level	28
4 x 400m Relay	University level	28
Badminton	University level	16
Badminton (Doubles)	University level	4
Ball Badminton	University level	46
Quiz	University level	5
Basketball	University level	56
Bhajan Antakshari	University level	7
Cricket	University level	60
Debate	University level	14
Drama	University level	90
Football	University level	63
General Knowledge Quiz	University level	21
Group Acting	University level	15
Group Dance	University level	24
Group Dance (Semi Classical)	University level	16
Group Dance Competition (Folk)	University level	32
Handball	University level	28
Kho Kho	University level	24
Oneact play	University level	43
Orchestra	University level	109
Table Tennis	University level	16
Table Tennis (Doubles)	University level	4
Tennis	University level	8
Tennis (Doubles)	University level	4
Throwball	University level	19

Volleyball	University level	68
10000m	University level	65
100m	University level	21
100m Hurdles	University level	3
1500m	University level	28
200m	University level	21
400m	University level	18
5000m	University level	16
800m	University level	21
Badminton	University level	12
Badminton (Doubles)	University level	6
Badminton (Singles)	University level	6
Bookmark Craft	University level	11
Carnatic Classical Vocal	University level	1
Cartooning	University level	2
Illustrative Writing	University level	9
Individual Vedam Chanting (Level I)	University level	6
Instrumental Competition	University level	7
Instrumental Mridangam	University level	2
Instrumental Music (Keyboard)	University level	2
Instrumental Music (Percussion)	University level	2
Instrumental Music (Strings)	University level	2
Instrumental Tabla	University level	2
Javelin Throw	University level	18
Light Music Competition	University level	10
Light Vocal	University level	3
Long Jump	University level	21
Mehendi Art	University level	11
Mimicry	University level	2
Miming	University level	2
Model Making	University level	3
Modelling Competition	University level	6
Mono Acting	University level	19
Object Drawing	University level	13
Painting	University level	7
Painting Competition	University level	3
Photography	University level	6

Pick n Act	University level	2
Poster Making	University level	9
Sanskrit Elocution	University level	5
Short Story Competition	University level	4
Short Story Writing	University level	5
Shot Put	University level	21
Sketching	University level	9
Sketching Competition	University level	3
Stotram	University level	5
Stotram Chanting and Explanation	University level	2
Stotram Competition	University level	3
Table Tennis	University level	12
Table Tennis (Doubles)	University level	3
Table Tennis (Singles)	University level	6
Telugu Elocution	University level	12
Tennikoit (Doubles)	University level	6
Tennikoit (Singles)	University level	3
Tennis	University level	6
Tennis (Singles)	University level	3
Theme Based Painting	University level	9
Tonal Instrumental	University level	2
Triple Jump	University level	12
No file uploaded.		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Students are part of AntiRagging committee, Internal Complaints Cell, Internal Quality Assurance Cell, Internal Committee for students with Disability. Confidential Online Teaching Quality Feedback process All students give valuable inputs about the teaching learning process. All the major events like Village Empowerment Programme (VEP), Summer course, Annual Sports and Cultural Meet, celebration of all the different spiritual and cultural festivals like Ganesh Chaturthi, Dasara, Christmas, Eid, Sankranti, Krishna Janmastami, Onam, Ugadi, Jagannath Chariot festival etc. are solely done by the students under the guidance of the institute faculty and research scholars. A major portion of the functioning of the Hostel is taken care of by the students and resident

staff members. The guiding principles of the Hostel are a simple life coupled with selfreliance. The students do their work with least dependence on external agencies. To inculcate the dignity of labour and respect for work, most functions and departments of the Hostel are run by students under the able guidance of resident faculty. The selfreliance departments include: • House Keeping (Maintenance, Electrical, Carpentry, Plumbing, Landscaping, Drinking Water Plant) • Academic support (Library, Computer Centre, Photocopying, Tutorials) • Health care (Paramedical and First aid assistance, General hygiene, Dietary Services) • Entertainment (Multimedia and Audiovisuals for inhouse entertainment, Sound engineering and Recording) • Support Services (General Stores, Transport services) • Culinary (Catering Services, Dietetics, Fruits and Snacks, Bakery) • Fine Arts (Arts, Crafts, Instrumental Music, Vocal Music, Brass Band, Photography) • Performing Arts (Dance, Dramatics and Costumes, Theatre, Public Speaking, Quiz) • Publications (Books and Newsletters - relating to the education system and interaction with and messages of the Revered Founder Chancellor) • Spiritual Activities (Festivals, select Ceremonies and Rituals to encourage the spirit of traditional Indian culture and heritage in Campuses, Hostels and Mandir) Students form the committees in each of the above mentioned selfreliance departments where the day to day running and the decision making is done solely by students under the guidance of research scholars and teachers. This unique system with a spiritual undercurrent inculcates the virtues of morality, integrity and honesty in the students.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

SSSIHL has informally an Alumni Cell which was set up in 1st Jan 2019. This is acting as a liaison between the institute and the alumni and helps in better coordination and cooperation between both of them. Objectives to be achieved through the alumni cell are: A midyear alumni meet is held in the institute where alumni come and share their inputs with the respective departments. CATALYST Participation in Moral class Sessions and offering support as visiting faculty, Inputs for syllabi setting, consulting for research projects and innovation Participation in driving the village adoption work undertaken by the university Offering a practical handson to the giving initiatives for the current students (prashanthi seva every 2nd weekend participation by alumni) Mentoring of current students who are due to graduate Assistance in Final year project submission and surveys Providing an outside perspective to the departments based on their professional experience Exploring setting up of an alumni chair in the institute Maintaining the database of the passing out students and their current pursuits to be able to bring them back for the give back initiatives Contributions to the university in kind

5.4.2 – No. of registered Alumni:

No Data Entered/Not Applicable !!!

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

35301521

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Business Meet in Aug 2018.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

Council of Professors: Employee Leave Management has been transferred to the respective Directors:

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

Partial

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	<p>At UG level, electives are introduced to incorporate emerging fields in the syllabus. Also projects, in the fifth and sixth semesters, introduce students to the nuances of scientific research. Students, by the end of their courses, develop logical reasoning, analytical ability, aptitude for problem solving, competitive communicative skills, etc.</p> <p>At PG level, advanced level of understanding, and application of knowledge in relevant fields are achieved. The rigorous project/ dissertation train the students in research and industryrelevant problem solving skills. A few examples in point: Sciences: Specialization in Actuarial Science, Data Science Computing fill the much needed global talent pool. The institute being situated in a rural set up addresses some local issues like viable ways of reducing fluoride content in water, devising semiconductor based silicon from groundnut shell and husk, researching to meet national and global food security and safety needs, training skilled personnel for health sector and food industries. Economics and Humanities: Evaluating important local and national issues in economics and finance applying economic theories and econometric methods, understanding the history of India to analyse its political implications, developing awareness on media discourse and environmental literature, training value conscious and responsible teachers are some of the initiatives.</p> <p>Management Commerce: Courses like Supply Chain Management, Marketing, Valuesbased management address crucial global and national issues like ethical management, sustainability, etc. Important social issues like gender</p>

equality and worklife balance find a prominent place in courses like Human resource management, Selfdevelopment etc. All programmes have their specific Programme outcomes, programme specific outcomes and course outcomes, and are uploaded in the website. Revised course curriculum, through a welldefined mechanism, is presented in the Board of Studies (BoS) of each department, which then are ratified in the Academic Council meeting (ACM) held once/twice a year, finally approved by the Board of Management.

Teaching and Learning

The Sri Sathya Sai Institute of Higher Learning comprises campus area of 174.58 acres and built up area of 1,40,000 square meters predominantly in rural or semiurban locations and distributed among one main and four off campuses. The university is well equipped with spacious libraries in each of the campuses with nearly 1,75,000 books, 7000 reference books and a rich collection of around 212 national and 68 international journals.

The SSSIHL users can access the databases of Web of Sciences, Science Direct, JCCC, JSTORE, Oxford University Press, Cambridge University Press and PROQUEST through INFLIBNET. The institute has the fiber security lab, computer vision lab, machine learning and Robotics lab, a postgraduate computer center and two student laboratories in the department of Mathematics and Computer Science. The Department of Physics includes two general Physics lab, 2 Electronics Labs, a Linear Optics Laboratory, a Nonlinear Optics Lab, a Materials Science Lab, a Characterization Lab, a Networking Lab, a Raman Spectroscopy Lab, a Nuclear Physics Lab and an Optoelectronics and Communication Lab.

Department of Chemistry has an Instrumentation Lab, 3 Organic Chemistry Labs, 3 Inorganic Chemistry Labs, 3 Physical Chemistry Labs, one Water Analysis Lab, one Lab for Computational Chemistry and a Molecular Bioprocessing Lab (MBL). Department of Biosciences has a Microbial Fuel Cell Lab, a Fast Protein Liquid Chromatography Lab, 3 Microbiology Labs, a Mycology and Plant Pathology Lab, 2 Animal Cell Culture Labs, a Plant Tissue Culture Lab, a Flow

Cytometry lab, an Instrumentation Lab, a Bioinformatics Lab, a Biochemistry Lab, two Basic Zoology Labs, 2 Basic Botany Labs, a Molecular Biology Lab, a Research Lab and a Tissue Culture Lab. Department of Food and Nutritional Sciences has a Biochemistry Lab, a Clinical Lab, a Food Science Lab, a Food Quality Control Lab, and a Research Lab. Central Computer Centre facility, English Language lab facility, Multimedia Learning Centres are commonly available in all the four campuses for use by all departments. Almost all these centres have been upgraded to HD Polycom plus Microsoft Lync facilities. All the four campuses have computer centers with an impressive student to computer ratio of 2.6:1. Total number of computers available in the institute are around 1150. The classrooms excluding the seminar halls and conference halls add to 127 in all campuses combined together most of which are well equipped with DLP Projectors, projector screens, White boards and PC on Stick facility. There is a state of the art Research Facility, Central Research Instruments Facility (CRIF), in the Prasanthi Nilayam campus for pursuing cutting edge research, available to all the campuses. It was constructed by the parent trust, Sri Sathya Sai Central Trust, with a cost of Rs. 50 crores. It comprises some of the latest facilities under the four broad headings of Core Facilities (Rs.13.2 crores), Multifunctional Materials Facility (Rs.1.49 crores), Central Utilities (Rs.2.1 crores) and Specialized Research Facilities (Rs.4 crores). The university has a high speed internet line of 1 Gbps and is provided under the National Knowledge Network (NKN) from the Government of India. The three off campuses connect to the main campus via a VPN and have an individual 8 Mbps internet connection separately.

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

E-governance area	Details
Examination	Contract has been signed with NSDL for uploading the certificate of all the students passing out in the year 2019. NSDL will provide the NAD ID to them and the uploading will be done after the convocation i.e. after 22nd

	<p>November 2019. E governance mechanisms like EDDRS (Electronic Data Dispatch and Receipt System) and QPSB (Question Paper Scrutiny Board) are already in place in the examination section.</p> <p>Application for convocation, End semester supplementary exam registration, Retotalling of marks, Issue of duplicate grade card, Issue of duplicate degree certificate, Migration certificate, Application for change of name, Application for CGPA to percentage conversion etc. are available electronically on the university website for the students to download and fill them.</p>
Finance and Accounts	The Finance and Accounts section already has the e-governance in its day to day operations. It uses Saral Paypack, Tally and TDSMan.
Student Admission and Support	The whole process of student admission is done online from 2011 onwards. The online application portal provides the option for the students to apply for a programme at SSSIHL online. In the admissions of 2019, 70 of applications for admissions to the university were received in the online mode. This figure is increasing on an incremental basis every year. For all the entrance examinations for Undergraduate and Professional courses, the exam is conducted using an OMR sheet which is then evaluated electronically. The analysis, generation of reports and display of results are also done electronically. Once the students join the campus, the profile of students is maintained electronically in the respective hostels.
Administration	NAS drive is used in all the campuses for centrally storing and retrieval of data. The data is also shared across campuses via the NAS drive. This gives safety to the data due to the availability of effective data backup and security from malware attacks.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
No Data Entered/Not Applicable !!!				

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Towards Excellence in Teaching and Research		12/01/2019	13/01/2019	32	0
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Introspection Day	180	24/04/2019	24/04/2019	1
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
7	7	1	1

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Free primary and tertiary medical care, Excellent gymnasium and sports facilities, Preference to the wards of the faculty for admission in the school and university under staff quota, Shopping complex and Canteens at nominal price, Exposure to spiritually elevating talks, presentations exhibitions as food for the soul, and Staff quarters at nominal charge, .	Free primary and tertiary medical care, Excellent gymnasium and sports facilities, Preference to the wards of the faculty for admission in the school and university under staff quota, Shopping complex and Canteens at nominal price, Exposure to spiritually elevating talks, presentations exhibitions as food for the soul, and Staff quarters at nominal charge.	Education totally free of cost, Free primary and tertiary medical care, Excellent gymnasium and sports facilities, General stores and Canteens at nominal price, Exposure to spiritually elevating talks, presentations exhibitions as food for the soul., facilities of Indoor stadiums, outdoor stadiums and huge playground, Free Internet access, Computer facilities, Language Lab, Multi media Learning

6.4 – Financial Management and Resource Mobilization

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

The accounts of SSSIHL are audited on a half yearly basis by a chartered accountancy firm on voucher to voucher basis (internal auditors). The compliance reports to the audit report of internal auditors are scrutinised by the statutory auditors. After scrutiny, the external auditors schedule their visits for test checking the vouchers and relevant documents. Therefore, we have two semi annual internal audits and two semi annual statutory audit.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Philathropies and Individuals	236486127	Educational
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6.4.3 – Total corpus fund generated

104984704

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	AICTE Expert committee visit on 6th April 2019	Yes	
Administrative	Yes	AICTE Expert committee visit on 6th April 2019	Yes	

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

Not applicable

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

NIL

6.5.4 – Development programmes for support staff (at least three)

Encourage the support staff to pursue enhancement of skills and gain knowledge by enrolling for online/correspondence courses Shift the staff to a better job profile based on the competency and performance Encourage them to be up to date with their computer skills by constantly upgrading the software to the latest versions

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

Setting up of Syllabus Technical Review Committee for review and revamping of the syllabus of all the courses from time to time and make it contemporary and competitive. Constitution of mandatory committees like Anti Ragging Cell,

Internal Complaints Cell, Anti Discrimination Cell, SC/ST Cell, Internal Disabilities Cell, Ombudsman etc. Setting up of Institute Industry Interface Cell (IIIIIC)

6.5.6 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	No

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Introspection Day	29/07/2019	24/04/2019	24/04/2019	150
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Ladies Day	19/11/2018	19/11/2018	478	856
Dasara Celebrations highlighting importance of Feminine aspect of Godhood	13/10/2018	19/10/2018	478	856

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

Percentage of power requirement of the University met by the renewable energy sources
The institute has as on date 1200 kW of installed solar power capacity. The institute is diligently pursuing research with the principle of waste to wealth and working on projects like developing semi conductor grade silicon from groundnut shell and husk. The hostels use special eco friendly cakes to fire their boilers. All hostels use their kitchen and wet waste to make organic manure which is used in the campus gardening. All the students on a periodic basis enthusiastically participate in tree plantation. Institute has set mechanisms for water harvesting.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Scribes for examination	Yes	0
Physical facilities	Yes	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	1	02/06/2018	222	Village Empowerment Programme	Education, Health Hygiene, Rural Entrepreneurship, Cleanliness	200
2019	1	1	01/06/2019	365	Empowering Rural Entrepreneurs	Reviving ancient art form which was patronized 200 BC by Sathavahana dynasty, creating Marketing linkages with the Industry and other stakeholders	50
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Convocation Pledge	22/11/2018	<p>"I hereby solemnly declare and promise that, if admitted to the Degree for which I have been duly recommended, I will, in my daily life and conversation, and in thought, word and deed, conduct myself as befits a member of Sri Sathya Sai Institute of Higher Learning that I will, to the utmost of my capacity and opportunity, support the cause of sound learning, humanity, morality and spirituality and that, as far as lies in me, I shall uphold and</p>

advance the social and, indeed, all round welfare of my countrymen and fellowmen"

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Summer Course in Indian Culture and Spirituality	08/06/2018	10/06/2018	1330
Awareness Course (UG 2 hours/week PG 1 hour/week)	01/06/2018	15/04/2019	1330
Convocation Drama	22/11/2018	22/11/2018	100
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Adopting Solar power in the institute The institute is adopting solar photovoltaic cell based power in a big way. The installed capacity is 1200 kW as on date and the institute has plans to increase it on a sustained basis and reduce the carbon footprint of the institute.

Graduating to the LED lighting The institute has graduated to the LED type of lighting in a big way. 25 percent of the institute has already graduated to the LED lighting and the remaining are also going to adopt to LED lighting in a phased manner.

Tree plantation initiative Students take up the tree plantation initiative on a periodic basis as part of community service programme. Students took part with enthusiasm in Vanam Manam and Chettu Neeru programmes of the state government to promote tree plantation.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Research for Societal benefit Skills for life Implementation of Confidential online Teaching Quality Feedback

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

<http://sssihl.edu.in/sssuniversity/dnn/Accreditation.aspx>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Title Sri Sathya Sai System of Integral Education (SSSSIE) Vision, Priority and Thrust To assist generations of students acquire Selfknowledge (Atma Vidya) and Selfconfidence (Atma Vishwas), so as to cultivate Selsacrifice and earn Selfrealisation thereby moulding them into leaders who will benefit society. To mould wellrounded holistic individuals - professionally sound, socially responsible and spiritually aware - who embody noble values and a right attitude, through Educare (Integral Education based on Human Values) that caters to the physical, intellectual, emotional, psychological and spiritual dimensions of the human personality. Context Education presently has become an instrument for providing knowledge, information and skills with the sole objective to earn. The sole purpose of education has become earning a

livelihood and not acquiring life skills. The worth of an educational institution is being judged by the placements and pay packages it can offer to its students. While ability to gain employment must be a natural outcome of education, if it becomes the singular, dominant objective, it clouds the higher and holistic purpose that education ought to serve- to develop responsible citizens that go on to live meaningful happy lives that impact the society and nature positively. As the Revered Founder Chancellor observed 'at present, colleges are infected with anxiety and perplexity, discontent and illdiscipline, irreverence and futility they have lost the status of temples of learning, where youth are shaped into selfreliant, contented and enterprising heroes.' He observed The crisis is educational field is well known. Many attempts have been made to bring about changes in the educational system. But it is forgotten that what gives education its true value and significance is its moral and spiritual content. In this context, Sri Sathya Sai Baba, the Revered Founder Chancellor, had foreseen the need for values based education programme and had taken concrete steps to implement the same into a formal educational system known as SSSSIE. Practice • Revered Founder Chancellor observed educare has two aspects the secular worldly education and the spiritual. Worldly education brings out the latent knowledge pertaining to the physical world. Spiritual education brings out the inherent divinity in man. So, both worldly and spiritual education are essential, for a balanced, happy and meaningful human life. This unique model of education based on this philosophy was established on the lines of gurukula system of education of the yore, to make the students professionally sound, socially responsible and spiritually aware. The institute offers residential education that has five dimensions Intellectual, Cultural, Devotional, Physical and Service to develop the students in holistic individuals. Component of hostel life is very important facet of SSSSIE. Evidence of Success Bharat Ratna Dr. APJ Abdul Kalam, the then President of India at the 21st Convocation of the Sri Sathya Sai Institute of Higher Learning on 22.11.2002 said "the purpose of real education is to initiate a learning process that transforms students into good human beings with knowledge and value systems. Is values based education possible? SSSIHL has given an answer in the affirmative. I congratulate all.

Provide the weblink of the institution

<http://www.sssihl.edu.in>

8.Future Plans of Actions for Next Academic Year

The quality initiatives SSSIHL that need to take in order to improve and sustain quality in teaching and research were discussed. The points that emerged from this discussion are listed below. • Central Research Instruments Facility (CRIF) has become functional and the allied experimental facilities are augmented. A Central Research Lab (CRL) has been planned for women students at Anantapur Campus. • Alignment of thrust areas of teaching and research with the vision of SSSIHL. • Since, the emphasis is going to be on quality research for societal benefits, it is required to strengthen the ongoing scientific collaborations with likeminded organizations/academic/science community both at national and international levels. • Quality initiatives by the IQAC (Internal Quality Assurance Cell) has been made for the year 201920. • Promoting Green Initiatives and waste management in the institute. • Continued to have rain water harvesting structures and utilization in the campuses. • Collaborative work by Institute Industry Interface Cell and Applications of Science to Rural Areas (ASRA). • The SSSIHL continues to have robust quality assurance system in place through inputs received from: Department committee, Research Conferment Cell, Boards of Studies, Academic Council, Planning and Monitoring Board, Research Advisory Board, CampusHostel Management Committee and Leadership Committee. • Continue to have Faculty Training inHouse and by deputation to other External Institutions (National and International) • Extend the required support to the rural students

to excel in their future endeavours. • Continue to identify exotic Plants in and around Anantapur District for medicinal applications. • Continue to have our Research focus on the development of efficient materials for strategic, automobile, Green building etc., applications. • Introspection Day: The Introspection Day (24th April) for faculty members will be initiated and every year, where each department will discuss various issues related to academic, evaluation, admissions, research, facilities, etc. • Continued to offer services w.r.t. Village Empowerment (VEP) by all the Campuses as a quality initiative towards Best Practices of the Institute. • Improved functioning of Syllabus Technical Review Committee (STRC) • Formulating and consolidating POs, PSOs and COs for all programmes and courses for uploading in the website as per NAAC's directives. • Institutional Values and Best Practices: Assessment mechanism from various stakeholders of the university Multidimensional Impact Analysis survey by students • Preparation of SSR and IIQA for 3rd cycle of Reaccreditation to NAAC.