

*Annual Quality Assurance Report
for the Period
1st June 2019 to 31st May 2020*



Submitted to



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

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

Institutions Accredited by NAAC need to submit an Annual self-reviewed progress report i.e. Annual Quality Assurance Report (AQAR) to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the IQAC at the beginning of the Academic year. *The AQAR period would be the Academic Year. (For example, June 1, 2017 to May 31, 2018)*

Part – A

Data of the Institution

(data may be captured from IIQA)

- | | |
|--|------------------------------------|
| 1. Name of the Institution | : Sambalpur University |
| • Name of the Head of the institution | : Prof. (Dr.) Sanjiv Mittal |
| • Designation | : Vice Chancellor |
| • Does the institution function from own campus | : Yes |
| • Phone no./Alternate phone no. | : 0663-2430157/2430158 |
| • Mobile no. | : 09899812268 |
| • Registered Email | : iqac@suniv.ac.in |
| • Alternate Email | : vc@suniv.ac.in |
| • Address | : Jyoti Vihar |
| • City/Town | : Sambalpur |
| • State/UT | : Odisha |
| • Pin Code | : 768019 |
| 2. Institutional status: | |
| • University: State/Central/Deemed/Private | : State |
| • Type of Institution: Co-education/Men/Women | : Co-education |
| • Location : Rural/Semi-urban/Urban | : Semi-Urban |
| • Financial Status: Centrally funded/state funded/Private | : State |

- **Name of the IQAC Co-ordinator/Director** : Prof. Pradipta Kumar Behera
- **Phone no. /Alternate phone no.** : 0663-2430158
- **Mobile** : 09437093574
- **IQAC e-mail address** : iqac@suniv.ac.in
- **Alternate Email address** : pkb.chem@suniv.ac.in

3. Website address : <http://www.suniv.ac.in>

Web-link of the AQAR (previous aca. year) : <https://www.suniv.ac.in/IQAC/AQAR-2018-19.pdf>

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

4. Whether Academic Calendar prepared during the year? Yes

if yes, whether it is uploaded in the Institutional website: Yes

Weblink: <http://www.suniv.ac.in/docs/academic-calendar-19-20-new.pdf>

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1 st	B ⁺	75.25	2002	from:01/10/2002 to: 30/09/2007
2 nd	A	3.15	2016	from:16/09/2016 to: 15/09/2021

6. Date of Establishment of IQAC: DD/MM/YYYY: 12/05/2010

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
Awareness Programme on Revised Accreditation Framework (RAF) of National Assessment and Accreditation Council (NAAC)	25/09/2019 (1 day)	136
Awareness Programme on Revised Accreditation Framework (RAF) of National Assessment and Accreditation Council (NAAC)	26/09/2019 (1 day)	140
Workshop-cum-Training Programme on Turnitin: Anti-Plagiarism Software	06/02/2020 (1 day)	110
Online Lecture Series on Productive Engagement of U niversity Teachers and Research Scholars during COVID-19 Lockdown	28/05/2020 to 08/06/2020 (12 days)	200

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
Biotechnology and Bioinformatics	FIST	DST	2018 1825	6800000
Mathematics	FIST	DST	2019 1825	5300000
Economics	DRS	UGC	2014 1825	4000000

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

***upload latest notification of formation of IQAC**

10. No. of IQAC meetings held during the year: 05

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

Yes

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

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

Yes (From NAAC, Bengaluru; Rs. 1,48,925/-)

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

- IQAC advised to monitor the progress of the projects carrying out by the Centres of Excellence (COE) created under World Bank sponsored OHEPPE project of Government of Odisha.
- IQAC advised to monitor the establishment, and smooth functioning of the Central Instrumentation Facility (CIF).
- IQAC suggested publishing a book on a theme '*Paschima Odisha Parichaya*' to sensitize people about the rich cultural heritage and linguistic aspects of western Odisha.
- IQAC advised to create awareness and prevent spreading of Coronavirus in order to maintain a healthy academic environment in the University.
- IQAC suggested organizing a brainstorming online lecture series where the Vice-Chancellors of all the state universities of Odisha will speak on the quality education and research. This would be the first online conference with so many head of the institutions.

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

Plan of Action	Achievements/Outcomes
<ul style="list-style-type: none"> • Award of Doctor of Science degree in Management. • Conduct of Orientation Programme on research methodology for M.Phil. and Ph. D scholars by UGC-HRDC, SU. • Opening of P.G. Diploma in Cyber Law in any of the constituent/affiliated Law Colleges of the University in collaboration with Odisha State Open University. • Construction of a food court for faculties, staff, and students. • Recommended the name of Dr. Pramod Kumar Mishra, Principal Secretary to the Hon'ble Prime Minister of India as Chief Guest for the 30th Convocation of the University. • Constitution of a search committee to consider the names for the award of Honoris Causa for the 30th Convocation of the University. • Enhancement of the prize money of the winners as well as expenditure to be incurred for conducting the inter-college Chancellor's Debate Competition. • Installation of Fire Extinguishers at different buildings of Sambalpur University for better fire-safety of the University. • Initiatives for the recruitment of the teaching posts against the vacancy. • Publication of a book to document the cultural heritage and linguistic aspect of Western Odisha. • Financial support to the departments for organizing National Seminars, Conferences, and Workshops. • Conduct of Faculty/Students Satisfaction Survey to consider the feedback of the students for improvement of teaching. • Initiatives for preventive measures to check the spread of Corona Virus (COVID-19) and creation of a special budget head namely "COVID-19 Expenditure". • Conduct of online Interview for contractual faculty of SUIIT considering the COVID-19 pandemic. • Departments are requested to procure smart board toward the creation of smart class room. • A new building be constructed for the Central Instrument Facility (CIF). 	<ul style="list-style-type: none"> • Street Lights and LED to reduce electrical consumption and to be more environment-friendly have been installed. • Repair of staff quarters and different buildings on the campus are being carried out. • Equipment for Ladies Gym has been procured and the Gym is now functioning. • SC/ST/OBC Student Hostel (200 seated) has been constructed and operational. • Initiatives have been taken to form a registered Central Alumni Associations to strengthen the participation of alumni for the development of the University. • Two new research building have been constructed from RUSA fund to create better research facility. • Several PG departments organized National Seminar/ Workshops/ Conferences. • University created two Centres of Excellence, namely Natural Products & Therapeutics and Regional Development and Tribal Studies funded by World Bank through OHEPEE, Govt. of Odisha. • University established Central Instrument Facility (CIF) and it has received funding from World Bank through OHEPEE, Govt. of Odisha. • M.Phil. courses have been rescheduled under common academic session. • University started Induction and Orientation Programme for the newly admitted students both at Departmental and University levels. • University conducted induction programme for the newly recruited college teachers under the aegis of Department of Higher Education, Govt. of Odisha. • Proposal for Construction of University Sports Complex has been submitted to the Department of Higher Education, Govt. of Odisha.

14. Whether the AQAR was placed before statutory body? Yes

Name of the statutory body: Syndicate **Date of meeting(s):** 21/08/2021

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/No: Yes

Year: 2019-20

Date of Submission: 28/06/2020

17. Does the Institution have Management Information System?

No

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	Dates of revision	
MSc Applied Geology	MSAG	02.03.2019	
BEd-MEd	BEDMED	24.06.2019	
B. Tech ECE	SBTECE	20.03.2019	
M. Tech CSY	SMTCSY	20.03.2019	
M. Tech ESD	SMTESD	20.03.2019	
B-TECH (EEE)	SBTEEE	20.03.2019	
B. Tech CSE	SBTCSE	20.03.2019	
M. Tech CSE	SMTCSSE	20.03.2019	
MCA	SMCA	20.03.2019	
M. Sc CS	SMSCCS	20.03.2019	
M.Sc. Electronics	SMSCEL	20.03.2019	
M. Phil CS	SMPCS	20.03.2019	
PhD CSE	SPHCS	20.03.2019	
1.1.2 Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year			
Programme with Code	Date of Introduction	Course with Code	Date of Introduction
MA/M.Sc. Anthropology (MAANTH)	1991	AN.C-414, AN.C-424	1991
M.Phil. Anthropology (MPATH)	1991	614	2010
M.Sc. Biotechnology (MSBT)	2002	Industrial Biotechnology (BT-426)	12. 04. 2018
	2002	Cell Culture Techniques (BT-534)	12. 04. 2018
	2002	Pharmaceutical Biotechnology (BT-536D)	12. 04. 2018
M.Sc. Bioinformatics (MSBI)	2006	Molecular Modelling and Simulations (BI-533)	12. 04. 2018
	2006	Data warehouse and Data Minning (BI-535)	12. 04. 2018
	2006	Computer Added Drug Design (BI-536)	12. 04. 2018
	2006	NGS and Microarray Data Analysis (BI-543C)	12. 04. 2018
M.A. English (MAENG)	2007	ENG-433	2007
M.Phil. English (MFENG)	2019	ENG-612	2019
M.A. Hindi (MAHIN)	2010	HNC	2010
MA/M.Sc Food and Nutrition (MSFN)	2018-19	HSCFN	2018-2019
MA/MSCHSC (HDFS)	2018-19	HSCHDFS	
LL.M (LLM)	1986	LL.M - E 522	01.08.1986
LL.M (LLM)	1986	LL.M - E 523	01.08.1986
LL.M (LLM)	1986	LL.M - E 524	01.08.1986
LL.M (LLM)	1986	LL.M - E 525	01.08.1986
LL.M (LLM)	1986	LL.M - E 526	01.08.1986
LL.M (LLM)	1986	LL.M - E 527	01.08.1986
LL.M (LLM)	2013	LL.M – E 530	01.08.2013

LL.M (LLM)	2013	LL.M – E 531	01.08.2013
LL.M (LLM)	2006	LL.M – E 532	01.08.2006
M.A. Library and Information Science (MLIS)	1985	MLIS-426 Digital Library and Information Systems	1/8/2017
M.A. Library and Information Science (MLIS)	1985	MLIS-430-A: Electronic Resource Management	1/8/2017
M.A. Library and Information Science (MLIS)	1985	MLIS-430-B: Marketing of Information and Knowledge Management	1/8/2017
M.Sc. Microbiology (MSMB)	23.02.2017	MSMB	23.02.2017
MBA	2019-20	MBA	2019-20
Master in Performing Art (MPA)	June, 2010	MPA(Dance & Drama)	June, 2010
M.A. Odia (MAOD)	01.11.1968	ODIA ODI	1968
M.Phil. Odia (MPOD)		ODIA ODI	1978
M.Sc. Physics (MSPHY)	1969	MSPHY	1969
M.Phil. Physics (MPPHY)	1980	MFPHY	1980
B-TECH EEE (SBTEE)		Electrical Machine-1 (EEC234)	27-5-19
B-TECH EEE (SBTEE)		Network Analysis and Synthesis (EEC233)	27-5-19
B-TECH EEE (SBTEE)		Control System Engineering-I (EEC351)	27-5-19
B-TECH EEE (SBTEE)		Power Electronics (EEC352)	27-5-19
B-TECH EEE (SBTEE)		Power Station Engineering (EEE353)	27-5-19
B-TECH EEE (SBTEE)		Electrical Power Transmission and Distribution Systems (EEC361)	27-5-19
B-TECH EEE (SBTEE)		Control System Engineering – II (EEC362)	27-5-19
B-TECH EEE (SBTEE)		Electrical and Electronic Measurements (EEE363)	27-5-19
B-TECH EEE (SBTEE)		Electric Drives and Traction (EEE364)	27-5-19
B-TECH EEE (SBTEE)		Special Electrical Machine (EEE368)	27-5-19
B-TECH EEE (SBTEE)		Electric and Hybrid Vehicles (EEE369)	27-5-19
B-TECH EEE (SBTEE)		Power System Operation and Control (EEC471)	27-5-19
B-TECH EEE (SBTEE)		Renewable Energy Systems (EEE473)	27-5-19
B-TECH EEE (SBTEE)		Power Quality (EEE474)	27-5-19
B-TECH EEE (SBTEE)		Power System Protection (EEC481)	27-5-19
B-TECH EEE (SBTEE)		Entrepreneurial Management (HSC483)	27-5-19
B.TECH ECE (SBTECE)		Advance Electronic Circuit ECC245	20/3/2019
B.TECH ECE (SBTECE)		Analog Electronics Circuit(ECC232)	20/3/2019
B.TECH ECE (SBTECE)		Digital Circuit and System(ECC234)	20/3/2019
B.TECH ECE (SBTECE)		Signal and System(ECC236)	20/3/2019
B.TECH ECE (SBTECE)		Electronic Measurement and Instrumentation(ECC235)	20/3/2019
B.TECH ECE (SBTECE)		Microprocessor and	20/3/2019

		Microcontroller(ECC242)	
B.TECH ECE (SBTECE)		Analog Communication Systems(ECC244)	20/3/2019
B.TECH ECE (SBTECE)		Digital Signal Processing(ECC246)	20/3/2019
B.TECH ECE (SBTECE)		Digital Communication	20/3/2019
B.TECH ECE (SBTECE)		VLSI Engineering(ECC363)	20/3/2019
B.TECH ECE (SBTECE)		Embedded Systems(ECC362)	20/3/2019
B.TECH ECE (SBTECE)		Information Theory and Coding(ECE01)	20/3/2019
B.TECH ECE (SBTECE)		SATELLITE COMMUNICATION (ECE05)	20/3/2019
B.TECH ECE (SBTECE)		Optical Communication Lab(ECL176)	20/3/2019
M. TECH CSY (SMTCSY)		Advance Communication Theory(CSY611)	20/3/2019
M. TECH CSY (SMTCSY)		Advance Digital Signal Processing(CSY612)	20/3/2019
M. TECH CSY (SMTCSY)		Secure Communication(CSY621)	20/3/2019
M. TECH CSY (SMTCSY)		Advance Wireless communication(CSY622)	20/3/2019
M. TECH CSY (SMTCSY)		Integrated Optoelectronics(CSY6E06)	20/3/2019
M. TECH CSY (SMTCSY)		Optical Communication Systems(CSY6E20)	20/3/2019
M. TECH CSY (SMTCSY)		Optical Network(CSY6E21)	20/3/2019
M. TECH CSY (SMTCSY)		Rf and Microwave Systems(CSY6E19)	20/3/2019

1.2 Academic Flexibility

1.2.1 New programmes/courses introduced during the Academic year

Programme/Course	Date of introduction
M.Sc. Food Science and Nutrition	2018-2019
MBA	27.02.2019
MBA in Agri Business	27.02.2019
M.Phil. Business Administration	27.02.2019
Ph.D. Business Administration	27.02.2019
Advance Electronic Circuit (ECC245)	20/03/2019
Secure Communication (CSY621)	20/03/2019
Artificial Intelligence (ESD 6E15)	20/03/2019
VLSI Signal Processing (ESD6E12)	20/03/2019

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

Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
MBA		PG			24/06/2019
MBA in Agri Business		PG			24/06/2019
M.Phil. in Management		PG			24/06/2019
MA Sociology		PG			24/06/2019

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
Industrial Biotechnology (BT-426)	12. 04. 2018	31
Cell Culture Techniques (BT-534)	12. 04. 2018	31
Pharmaceutical Biotechnology (BT-536D)	12. 04. 2018	31
Molecular Modelling and Simulations (BI-533)	12. 04. 2018	24
Data warehouse and Data Mining (BI-535)	12. 04. 2018	24
Computer Added Drug Design (BI-536)	12. 04. 2018	24
NGS and Microarray Data Analysis (BI-543C)	12. 04. 2018	24
M.Sc. Food Science	02.08.2018	19
M.Sc. Food Science and Nutrition	02.08.2018	20
Home Science (FN & HDFS)	2019-20	34
Mass Media	2008	48
Managerial Skill Development	2019	132
1.3.2 Field Projects / Internships under taken during the year		
Project/Programme Title	No. of students enrolled for Field Projects / Internships	
Field Work in Antropology	17	
M.Sc. BT-Project Work (BT-545)	15	
M.Sc. BI-Project Work (BI-545)	14	
M. Phil – Project Work (BT-622)	12	
M.Sc. Applied Chemistry Industry Project	15	
M.Sc. Computer Science Project	22	
Structural Geology based field work in the Mahanadi near Hirakud and Burla	24	
Structural Geology based field work in the Mahanadi near Hirakud and Burla	18	
Internship at ONGC	2	
Internship OMC	1	
MA Economics Project	12	
Interaction with Community, Kushumdihi, Jamankira Block, Sambalpur	45	
M.Sc. Food Science	5	
Use of social media and mental status of adolescent : A study among school going adolescents of Bargarh District	1	
A study on effect of pesticides on health status of farmers in Barpali block , Bargarh District	1	
A study on psychosocial problems of visually handicapped children.	1	
A study on awareness of parentalattitudes towards girls education, at Ainla Pali village of Bargarh District , Odisha	1	
To assess the quality of life and level of stress among cancer patients – A hospital based study.	1	
A study on knowledge of breast feeding and weaning and weaning practices of rural women and its effect on health status of children.	1	
A study on knowledge and hygiene practice of mothers regarding management of diarrhoea among children- A hospital based study in Bargarh, Odisha.	1	
Assessment of knowledge and hygiene practices during menstruation among adolescent girls in Sambalpur town , Odisha.	1	
A study on prevalence of hypertension and its risk factors among people of Dalab village of Bargarh Dist.	1	
A study on alcohol use and its related health and social problems among tribal population in Goudnali village of Deogarh District.	1	
Evaluation of Erikson’s theory with the present psychosocial development among adolescents.	1	
Prevalence and assessment of knowledge of diabetic patients in relation to	1	

demographic variables in Bhadra, Balangir, Odisha.	
Impact of Mid-day meal programme on health status and academic achievement of the students in the Puntala Block of Bolangir District.	1
M.Sc. in Life Sciences	37
M.Phil. in Life Sciences	11
M.Sc. in Microbiology	16
MA in Library and Information Science (MLIS-433)	18
MBA Summer Internship	62
M.Sc. in Physics (Sensing of non-BDNA structures by quantum exciton: The implications in future diagnostics)	1
MA in Odia Feature writing on monuments	10
MA In Social Work in Policy Governance and Advocacy	12
MA Sociology	22
MA/MSc Statistics	15
MPhil Statistics	5
B.Tech CSE	30
B.Tech ECE	11
B.Tech EEE	24
M.Sc Electronics	4
Master in Computer Science	27
M.Sc. in Environmental Science	24
M.Tech. in Environmental Science and Engineering	18
M.Phil. in Environmental Science	7

1.4 Feedback System

1.4.1 Whether structured feedback received from all the stakeholders.

1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	No	No	No	No

1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution?

All the PG and UG departments collect feedback from the students on the functioning of University (Academic Atmosphere in University, Helpfulness of University Administration, Student-Administration Interaction, Attending student grievances, Library facility, Hostel Facility, Sports facility Computer facility, Community life in University and General Discipline in University), Department (Academic Atmosphere in Department, Standard of teaching, Student-Teacher Interaction, Discipline, Relevance of syllabus for their future career, Attending student grievances, Seminar Library Facility, Laboratory Facility, Computer Facility, Publication of result, Examination Pattern, Organization of class seminar, Extra-curricular activities and Alumni Association) and the teaching quality of individual faculty members (Time sense, Subject Command, Class Control, Evaluation, Teaching Method and Cooperative Attitude). Department analyzes the feedback from its students and prepare the summary sheet, which is submitted to the IQAC. A separate committee has been constituted by the University under the aegis of IQAC, which go through the summary reports submitted by various departments and provide suggestion for the improvement of the infrastructure of Department and University to make a holistic environment for teaching and extra-curricular activities. Further, IQAC advises Head of the Departments to discuss with the individual teacher to improve the quality of teaching, completion of course in due time, up gradation of course, providing standard study materials.

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
MBA (Agri-Business)	32	25	6
MA Anthropology	19	36	19
M.Phil. Anthropology	6	28	6
M.Sc. Biotechnology	32	107	31
M.Sc. Bioinformatics	32	26	26
M.Phil. Biotechnology	7	28	7

M. Sc. Chemistry	32	871	32
M. Sc. Applied Chemistry	15	57	15
M. Phil. Chemistry	20	52	20
M.Sc. Computer Science	30	182	30
M.Sc. Applied Geology	18	178	18
M.Phil. Applied Geology	7	24	7
MA Economics	48	175	48
M.Phil. Economics	7	32	7
MBA (Finance)	32	31	8
BED-MED	50	323	50
MA English	29	280	29
M.Phil. English	6	40	6
M.Sc. Environmental Science	24	163	24
M.Tech. Environmental Science and Technology	24	31	18
M.Phil. Environmental Science	7	34	7
M.Tech in Food Science and Technology	20	8	7
M.Sc. Food Science	20	12	19
M.Sc. Food Science and Nutrition	20	35	20
M.A History	32	192	32
LL.B	24	56	24
MA Library and Information Science	16	107	16
M.Sc. Life Science	32	1668	32
M.Sc. Microbiology	16	105	16
MA/M.Sc. Mathematics	38	576	38
M.Phil. Mathematics	11	55	11
MBA	90	200	70
MPA	32	35	25
M.A. Odia	48	320	48
M.Phil. Odia	6	178	6
M.Sc. Physics	40	948	40
M.Phil Physics	15	41	15
MA Political Science	32	229	32
M.Phil. Political Science	8	68	8
Master in Social Work	32	27	19
MA Sociology	24	120	24
M.Phil. Sociology	6	95	6
M.Sc. Statistics	20	268	20
B. Tech CSE	90	Applied through OJEE WEB counselling	68
B. Tech ECE	60		16
B. Tech EEE	60		20
B. Tech CSE(Lateral Entry)	12		3
B. Tech ECE(Lateral Entry)	12		3
B. Tech EEE(Lateral Entry)	12		10
M. Tech Computer Science & Engg.	32	16	5
M. Tech Communication System Engg.	32	5	0
M. Tech Embedded System Design	32	3	0
Master in Computer Application	32	37	29
M. Sc Computer Science	32	38	20
M. Sc Electronics	32	18	15
M. Phil Computer Science	4	18	4
M. Phil Electronics	4	5	4

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 full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019-20	126	1260	05	121	126
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
126	102	LCD Projector, Google Platform	21	0	MOOC, NPTEL, e-PG pathsala, INFLIBNET
2.3.2 Students mentoring system available in the institution? Give details. (maximum 500 words)					
<p>Sambalpur University has an in-built unit in its administrative structure, which is concerned with students' affairs. This unit has statutory status, and it is called the Postgraduate Council, headed by the Chairman. The Chairman coordinates the activities and facilities related to the students. Right from the time of admission to the completion of the course, the academic activities of students are supervised by the P.G. Council. After the merit list for admission at various departments are prepared by the respective departments, the P.G. Council centrally completes the admission process, and also helps the Warden of the hostels as regards the admission of the students into various hostels and residencies. The following are some highlights for students' support and mentoring:</p> <ul style="list-style-type: none"> To create an academic atmosphere which should be hospitable to the students of weaker sections of society and the female students, the University has formed various cells and adopted special measures. All Departments take special pedagogic measures to help slow-learners catch up with the brighter learners. For male and female students, there is an Anti-Ragging Committee which ensures ragging-free atmosphere on the campus and also in hostels. The University sensitizes the students towards gender discrimination and raises consciousness of the students regarding sexual harassment at workplace. The Postgraduate Departments familiarize the students and teachers with the Vishakha guidelines. The University has formed a Sexual Harassment Cell to stop gender related oppression, and has created a special provision for the victims of sexual oppression to lodge complaints electronically. The University has formed SC/ST Cell to facilitate disbursement of scholarships, free studentship to various students of the socially and economically disadvantaged categories. The Cell keeps liaison with the various departments of the University and also with the P.G. Council to ensure that these special categories of students do not face any academic problem. The National Service Scheme run by the University also trains the students to chalk out and execute the programs to help the students learn to undertake social duties and responsibilities. The University has organized extra-mural lectures from time to time on various knowledge-fields and issues. Home assignments are given to students regularly as a part of continuous evaluation system. Field study and study tours are conducted by different departments. The students are encouraged to participate in the Open Viva-Vocé examinations for PhD candidates in their own Departments and in the Departments offering allied courses. The students and faculties participate in seminars and workshops organized by the Departments of sister disciplines. The Human Resource Centre of Sambalpur University organizes short-term courses on Research Methodology and issues and trends in Humanities, Social Sciences and Sciences. 					
Number of students enrolled in the institution			Number of fulltime teachers		Mentor: Mentee Ratio
1386			126		0.09

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
185	126	59	15	95
2.4.2 Honours and recognitions received by teachers				
(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)				
Year of 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	
2019	Dr. (Mrs.) Smaranika Pattnaik	Asst. Professor (Stage II)	Senior Scientist award, Microbiologist’s Society of India	
2019	Dr. Debasis Mahapatra (Global-National)	Associate Professor	Innovative Academician HEI Professor -Global Award, Auropath, Puducherry	
2020	Dr. Sanjay Kumar Pattanayak	Associate Professor	Recognised as International Distinguished Scientist in Geochemistry and received Research Leadership Award of the Year 2020 At Grandeur Hall, Tamil Nadu.	
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
MBA(Agri-Business)	MBA (ABM)	Semester	28.09.2020	14.12.2020
MA Anthropology	MAATH	Semester	31.05.2020	17.11.2020
M.Phil. Anthropology	MPATH	Semester	31.05.2020	31.03.2021
M.Sc. Biotechnology	MSBT	Semester	29.09.2020	15.10.2020
M.Sc. Bioinformatics	MSBI	Semester	01.10.2020	15.10.2020
M.Phil. Biotechnology	MPBT	Semester	27.07.2019	19.08.2019
M.Sc. in Chemistry	MSCH	Semester	24.09.2020	16.10.2020
M. Sc. In Applied Chemistry	MSAC	Semester	03.10.2020	16.10.2020
M.Phil. Chemistry	MPCH	Semester	24.08.2019	26.09.2019
M.Sc. Computer Science	MSCS	Semester	Apr-19	11/3/2020
M.Phil Computer Science	MPCS	Semester	Jul-20	3/31/2020
M.Sc. Applied Geology	MSAG	Semester	28.09.2020	04.11.2020
M.Phil. Applied Geology	MPAG	Semester	26.11.2020	03.03.2020
MA Economics	MAECO	Semester	09.10.2020	21.10.2020
MBA(FM)	MBAFM	Semester	08.10.2020	05.11.2020
M. Phil. Economics	MPECO	Semester	25.11.2020	04.12.2020
M A English	MAENG	Semester	31.07.2020	13.10.2020
M Phil English	MPENG	Semester	13.10.2020	16.10.2020
M.SC. Environmental Science	MSENV	Semester	MAY, 2020	10/29/2020
M.Phil. Environmental Science	MPENV	Semester	JUNE,2019	1/7/2020
M.TECH.Environmental Science and Engineering	MTENV	Semester	MAY, 2019	1/8/2020
M.Tech. Food Science and Technology	MTFST	Semester	28.04.2019	15.05.2019

M.Sc. Food Science	MSFS	Semester	28.04.2019	15.05.2019
MA Hindi	MAHIN	Semester	05.10.2020	03.11.2020
MA/M.Sc. Home Science	MAHS	Semester	03.10.2020	04.11.2020
MA Library & Information Science	MLIS	Semester	25.09.2020	04.11.2020
M.Sc. Life Science	MSLS	Semester	10.10.2020	21.10.2020
LL.M	LLM	Semester	12.08.2020	03.11.2020
M.Sc. Microbiology	MSMB	Semester	10.10.2020	21.10.2020
M.Phil. Life Science	MPLS	Semester	16.03.2020	20.04.2021
MA/MSc. Mathematics	MSMATH	Semester	15.05.2019	03.11.2020
M.Phil Mathematics	MPMATH	Semester	21.11.2020	24.11.2020
Master in Performing Arts	MPA	Semester	07.10.2020	13.11.2020
M.A. Odia	MAOD	Semester	31.05.2020	Jun-20
M.Sc. Physics	MSPHY	Semester	05.10.2020	20.10.2020
M.Phil. Physics	MPPHY	Semester	19.09.2019	30.09.2019
MA Political Science	MAPS	Semester	Apr-20	03.11.2020
M.Phil. Political Science	MPPS	Semester	Jul-20	25.02.2021
M.Phil. Public Administration	MPPA	Semester	Jul-20	25.02.2020
MBA	MBA	Semester	04.08.2020	22.10.2020
Master in Social Work	MSW	Semester	31 st May	04.11.2020
MA Sociology	MASOC	Semester	9/28/2020	11/4/2020
M.Phil. Sociology	MPSOC	Semester	7/23/2019	12/20/2019
MA/MSc Statistics	MSSTAT	Semester	30.09.2020	05.11.2020
M.Phil. Statistics	MPSTAT	Semester	27.07.2019	27.08.2019
B. Tech. Computer Science and Engineering	SBTCSE	VIII Semester	8/21/2020	10/15/2020
B. Tech. Electronics and Communication Engg.	SBTECE	VIII Semester	8/26/2020	10/15/2020
B. Tech. Electrical and Electronics Engineering	SBTEEE	VIII Semester	8/19/2020	10/15/2020
Master in Computer Application	SMCA	VI Semester	8/20/2020	10/15/2020
M. Sc. Computer Science	SMSCCS	IV Semester	8/21/2020	10/15/2020
M. Sc. Electronics	SMSCEL	IV Semester	8/28/2020	10/15/2020
M. Tech. Computer Science and Engineering	SMTCSSE	IV Semester	8/18/2020	10/15/2020
M. Tech. Communication System Engineering	SMTCSY	IV Semester	8/28/2020	10/15/2020
M. Phil. Computer Science	SMPCS	II Semester	11/23/2020	12/28/2020
M. Phil. Electronics	SMPEL	II Semester	11/26/2020	12/28/2020

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

**Do not include re-evaluation/ re-totalling*

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nil	1386	0

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

www.suniv.ac.in
www.suiit.ac.in

2.6.2 Pass percentage of students				
Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final Semester /year examination	Pass Percent age
SBTCSE	Computer Science	35	24	68.5
SBTECE	Electronics and Communication	5	3	60.0
SBTEEE	Electrical and Electronics Engineering	17	11	64.7
MAATH	Anthropology	19	19	100
MSAC	Applied Chemistry	15	11	73.3
MBA	Business Administration (MBA)	65	59	91.0
MBA (ABM)	Business Administration (MBA in Agri-Business)	10	10	100
MSBT	Biotechnology	15	15	100
MSBI	Bioinformatics	14	14	100
MSCH	Chemistry	37	32	86.5
MCA	Computer Application (MCA)	19	18	94.7
MSCS	Computer Science	23	23	100
SMSCSE	Computer Science (SUIT)	14	13	92.9
MSAG	Applied Geology	24	24	100
MAECO	Economics	42	36	85.7
MSELEC	Electronics	17	17	100
MAENG	English	25	25	100
MSENV	Environmental Science	23	23	100
MBA(EXE)	Executive MBA	9	8	89.0
MSFSN	Food Science and Nutrition	78	78	100
MAHIN	Hindi	21	21	100
MAHIS	History	35	35	100
MSHS	Home Science (HDFS)	13	12	92.3
MSHSFN	Home Science (Food and Nutrition)	15	14	93.4
LL.M	Law	19	19	100
MLIS	Library & Inform. Science	20	19	95.0
MSLS	Life Sciences	37	37	100
MSMB	Microbiology	16	16	100
MSMATH	Mathematics	44	32	72.7
MFC	MBA (Financial Management)	12	11	91.6
MSW	MSW	17	16	93.9
MAOD	Odia	47	47	100
MPA	Performing Arts	29	29	100
MSPHY	Physics	35	34	97.1
MAPS	Political Science	38	38	100
MASOC	Sociology	23	21	91.3
MSSTAT	Statistics	12	12	100
SMTCSSE	Computer Science and Engineering	07	6	85.7
SMTCEE	Communication System Engineering	1	1	100
MTENV	Environmental Science and Engg.	18	18	100
MTFST	Food Science and Technology	10	10	100
MTGEOT	Geospatial Technology	11	11	100
MPATH	Anthropology	6	6	100
MPBT	Biotechnology	12	12	100
MPBA	Business Administration	11	11	100

MPCH	Chemistry	20	20	100
MPCS	Computer Science	7	7	100
SMPCS	Computer Science (SUIT)	4	4	100
MPAG	Applied Geology	7	7	100
MPECO	Economics	7	7	100
MPELEC	Electronics	4	4	100
MPENG	English	9	9	100
MPENV	Environmental Science	7	7	100
MPHIS	History	6	4	66.7
MPLAW	Law	5	5	100
MPLIS	Library & Inform. Science	6	6	100
MPLS	Life Sciences	11	11	100
MPMATH	Mathematics	9	8	88.9
MPOD	Odia	10	10	100
MPPHY	Physics	13	13	100
MPPS	Political Science	7	7	100
MPPA	Public Administration	2	2	100
MPSW	MSW	5	5	100
MPSOC	Sociology	7	7	100
MPSTAT	Statistics	4	4	100

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)

<https://www.suniv.ac.in/IQAC/Students-Feedback-Form.php>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 Promotion of Research and Facilities

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

	Name of the teacher awarded the fellowship	Name of the Award	Date of Award	Awarding Agency
International	Dr. Sanjay Kumar Pattanayak	Recognised as International Distinguished Scientist in Geochemistry and received Research Leadership Award of the Year 2020	26-Jan-20	International Journal for Research Under Literal Accession 26 January 2020 At Grandeur Hall, Tamil Nadu.

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 fellowship	Funding agency
Post Doctoral Fellowship	5 years	OHEPEE Dept. Of Higher Education, Govt. of Odisha,
Post Doctoral Fellowship	3 years	ICMR, Govt. of India
DST-Inspire	5 years	DST, Govt. of India
DBT-India	5 years	DBT Govt. of India
BPRF (O)	3 years	DST Govt. of India
DST-SERB	3 years	DST Govt. of India
National Fellow OBC JRF	5 years	UGC
DST INSPIRE SRF	5 years	DST, GoI
National Fellow SC SRF	5 years	UGC
NFSHE-JRF	5 Years	UGC
NFSHE -JRF	5 Years	UGC

MANF-JRF	5 Years	UGC
UGC –JRF	5 Years	UGC
RGNF (SRF)	2 Years	UGC
DST –INSPIRE(SRF)	5 Years	DST, NEW DELHI
RGNF(JRF)	5 Years	UGC, NEW DELHI
RGNF(JRF)	5 Years	UGC, NEW DELHI
RGNF	5 Yrs	Ministry of Tribal Affairs
RGNF	5 Years	Ministry of Tribal Affairs, Govt. Of India
RGNF	5 Years	
UGC JRF	5 years	UGC
RGNF (JRF)	3 Years	Ministry of Tribal Affairs, Govt. Of India
RGNF (SRF)	1 Years	Ministry of Tribal Affairs, Govt. Of India
Project Fellow	1 Years	ICSSR, New Delhi
JRF	3 Years	BPRF, Govt of Odisha
JRF-NFST	5 Years	Ministry of Tribal Affairs, ICSSR
Doctoral Fellowship ICSSR	1 Years	ICSSR, New Delhi
JRF	5 Years	DST; NEWDELHI
CSIR-JRF	5 Years	CSIR
INSPIRE	5 Years	DST, Govt. of India
UGC BSR Fellow	5 Years	UGC
UGC BSR Fellow	5 Years	UGC
UGC BSR Fellow	5 Years	UGC
Project Fellow	3 Years	SERB, DST Govt. of India
Project Fellow	3 Years	SERI, DST Govt. of India
Project Fellow	3 Years	DST, Govt. of Odisha
Project Fellow	3 Years	DST, Govt. of Odisha
RGNF	5 Years	Ministry of Tribal Affairs, Govt. Of India

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	3	ICSSR, SERB-DST, New Delhi, UGC, DST- Govt. of Odisha, TRIFED, DBT, OURIIP, ICMR, DST, New Delhi	345.92	231.75
Minor Projects	--		0	0
Interdisciplinary Projects	--		0	0
Industry sponsored Projects	--		0	0
Projects sponsored by the University	--		0	0
Students Research Projects (other than compulsory by the University)	3-5		177.0	177.0
International Projects	--			
Any other (DRS, FIST etc.)	5		65.0	55.0
Total			587.92	463.75

3.3 Innovation Ecosystem

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

Title of Workshop/Seminar	Name of the Dept.	Date(s)
National Conference on ‘Current Research Trends in Biotechnology Bioinformatics and Intellectual Property management (CRTBBI-2020)	Department of Biotechnology and Bioinformatics, Sambalpur University and National Research Development Corporation (NRDC), Govt. of India	03 rd & 04 th March 2019
National Workshop on Industry-Academia	School of Chemistry, Sambalpur University	6th & 7th March,

Interface		2020
A one day National Seminar on "Global Warming and Climate Change " in collaboration with Nrusinha Guru, Smriti Samiti, Sambalpur	P.G.DEPARTMENT OF ENVIRONMENTAL SCIENCE, S.U.	26th August, 2019
Sahitya , Samaj Aur Cinema (National Seminar)	Department of Hindi, Sambalpur University	18th & 19th February, 2020
National Workshop on Number Theory & Cryptography	Department of Mathematics, Sambalpur University	1st February, 2019
National Webinar on "Social Responsibility during the time of Global Pandemic in 21 st Century"	P.G. Department of Sociology, Sambalpur University	2 nd & 3 rd July, 2020

3.3.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
Biofilm production: An adaptation to adverse environmental condition in BME2	Ms Sushri Priyadarshini Panda	UGC and NRDC	04 th March 2019	Best poster presentation

3.3.3 No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Centre	Name	Sponsored by
NIL	NA	NA

Name of the Start-up	Nature of Start-up	Date of commencement
NIL	NA	NA

3.4 Research Publications and Awards

3.4.1 Ph. Ds awarded during the year

Name of the Department	No. of Ph. Ds Awarded
Department of Anthropology	01
School of Chemistry	05
Department of Earth Science	01
Department of Economics	01
Department of English	01
Department of Environmental Science	02
Department of Food Science & Technology	01
Department of History	07
Department of Law	02
Department of Library and Information Science	01
School of Life Science	07
Department of Mathematics	02
Department of Business Administration	01
Department of Odia	11
Department of Physics	05
Department of Statistics	01
SUIT	02

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

	Department	No. of Publication	Average Impact Factor, if any
National	Sambalpur University	39	2
International	Sambalpur University	162	2.5

3.4.3 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	No. of publication
Anthropology	2
BT & BI	18
Chemistry	1
Earth Science	11
English	1
Department of Environmental Science	3
Food Science and Technology	2
Home Science	2
Law	1
Library and Information Science	1
Life Science	2
Odia	11
Physics	2
Political Science	1
Sociology	2
Statistics	3
SUIT	2

3.4.4 Patents published/awarded during the year

Patent Details	Patent status Published/Filed	Patent Number	Date of Award
Copyright: Innovative training algorithm of Back-Propagation Neural Network up to global minima for n-parametric Forecast and its Software Implementation through Java	Registered / Awarded	Copyright Office Government of India: 12064/2019-CO/SW	19.09.2019
Copyright: Innovative algorithms to obtain Optimum Back-Propagation Neural Network (OBPN) for chaos prediction and its software Implementation by using Java	Registered / Awarded	Copyright Office Government of India: 12064/2019-CO/SW	25.09.2019
Internet of Things (IOT) Enabled Sensor Calibration System	Awarded	328714	31.12.2019

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

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Caste-based migration and exposure to abuse and exploitation: Dadan labour migration in India	Prof. Arun Kumar Acharya	Contemporary Social Science	2020	Scopus	Sambalpur University	2
Prevalence of violence against indigenous women victims of human trafficking and its implications on physical injuries and disabilities in Monterrey city, Mexico	Prof. Arun Kumar Acharya	Health Care for Women International	2019	Scopus	Sambalpur University	5
Biotyping and	Padhan M. and	Research	2019	Scopus	Sambalpur	0

Phylogenetic analysis of bacterial isolates prevalent in a local Hospital environment	Pattnaik S.,	Journal of Biotechnology, 14(11), 52-61.			University	
Effect of Environmental Factors on Biofilm Production of the bacterial strains isolated from the patient with Nosocomial Infection.	S. Panda and Pattnaik S.	Research Journal of Biotechnology 15 (6), 10,	2020	Scopus	Sambalpur University	0
Non-Pathogenic bacteria in Bioremediation of Cr (VI) for decontamination of ground water: An Extensive Review.	Ganguly S and Pattnaik S	International Journal of Lifescience and Pharma Research 10 940, 41-49. ISSN 2250-0480.	2020	WSO	Sambalpur University	
Phytosynthesis, characterization and fungicidal potential of emerging gold nanoparticles using Pongamia pinnata leave extract: a novel approach in nanoparticle synthesis.	Khatua A, Priyadarshini E, Rajamani P, Patel AK, Kumar J, Naik A, Saravanan M, Barabadi H, Prasad A, Paul B, Meena R,	Journal of Cluster Science 31 (1), 125-131	2020	Scopus	Sambalpur University	40
Characterization of intraspecific hybrid in Clitoria ternatea (L.) using morpho-physiological, cytogenetic, metabolic and molecular markers.	Naik A, Patel AK, Mishra SK, Nag A, Panigrahi J.,	Caryologia. International Journal of Cytology, Cytosystematics and Cytogenetics. 72(3), 11-22.	2019	Scopus	Sambalpur University	0
Genetic association of ACE gene I/D polymorphism with the risk of diabetic kidney disease; a meta-analysis,	Bhaskar, L, Khare RL, Verma HK, Pattnaik S,	Journal of Nephropathology, 8(4), 1-8.	2019	Scopus	Sambalpur University	1
A Retrospective Look at Anti-EGFR Agents in Pancreatic Cancer Therapy.	Verma HK, Kampalli P K, Lakkakula S, Chalikonda G, Bhaskar, L, Pattnaik S,	Current drug metabolism, 20(12), 958–966	2019	Scopus	Sambalpur University	0
Persister cell development among Enterobacteriaceae, Pseudomonadaceae, Mycobacteriaceae and Staphylococcaceae biotypes: A review.	Behera S, and Pattnaik S,	Biocatalysis and Agricultural Biotechnology. 22. 101401. 10.1016/j.bcab.2019.101401.	2019	Scopus	Sambalpur University	2

Empirical Optimization Of Culture Conditions For L-Glutamic Acid Production By <i>Corynebacterium Glutamicum</i> X680.	Ganguly S and Pattnaik S,.	International Journal of Pharmaceutical Sciences and Research, 12 (1), 536-546.E-ISSN: 0975-8232; P-ISSN: 2320-5148	2019	WSO	Sambalpur University	3
A concept paper on 'The Enigma of COVID-19'	Pattnaik S,	Cell & Cellular Life Science Journal, 4 (1), 3	2020	Publon	Sambalpur University	0
Effect of Environmental Factors on Biofilm Production of the bacterial strains isolated from the patient with Nosocomial Infection.	S. Panda and Pattnaik S.	Research Journal of Biotechnology 15 (6), 10,	2020	Scopus	Sambalpur University	0
Biofunctionalized cellulose paper matrix for cell delivery applications.	Agarwal T., Maiti TK, Behera B, Ghosh SK, Apoorva A, Padmavati M.	International journal of biological macromolecules. 139, 114-127	2019	Scopus	Sambalpur University	5
Structural insights into the molecular mechanisms of pectinolytic enzymes.	A Kanungo, BP Bag,.	Journal of Proteins and Proteomics. 10 (4), 325-344	2019	Scopus	Sambalpur University	1
Characterization of Structural Conformers of κ -casein Utilizing Fluorescence Spectroscopy	L. Mirdha, H. Chakraborty	Int. J. Biol. Macromol.	2019-20	Scopus	Sambalpur University	4
Cholesterol Modulates Membrane Properties and the Interaction of gp41 Fusion Peptide to Promote Membrane Fusion	G. Meher, S. Sinha, G. P. Pattnaik, D. S. Ghosh, H Chakraborty	J. Phys. Chem. B	2019-20	Scopus	Sambalpur University	12
Exploration of the structural and dielectric characteristics of a potent hydroxyapatite coated gallium bioceramics for the forthcoming biomedical and orthopedic applications	B. Nayak, P. K. Misra	Mater. Chem. Phys.	2019-20	Scopus	Sambalpur University	
Diverse synthetic approach for sulfur and nitrogen-containing spiroheterocycles from dimedone and their	P. P. Mohanta, P. Majumdar, S. Sahu, A K Behera	Synth. Commun.	2019-20	Scopus	Sambalpur University	

pharmacological evaluation						
High performance of hydroxylated BiFeO ₃ /Polystyrene composite films with enhanced dielectric constant and low dielectric loss	S. Moharana, R N Mhaling	J. Aust. Ceram. Soc.	2019-20	Scopus	Sambalpur University	
Assessment of Ground Water Quality for Rural Areas of Paradeep-City	H. Meher, P. K. Behera, S. N. Panda, A. K. Sarangi	Water Energy Int.	2019-20	Scopus	Sambalpur University	
A Novel Molecular Descriptor Derived from Weighted Line Graph	C. Adhikari, B. K. Mishra	Iran. J. Math. Chem.	2019-20	Scopus	Sambalpur University	
Ultrasensitive detection of aqueous Cu ²⁺ ions by a coumarin-salicylidene based AIEgen.	S. K. Padhan, N. Murmu, S. Mahapatra, M. K. Dalai, S. N. Sahu	Mater. Chem. Front.	2019-20	Scopus	Sambalpur University	15
Fluorescence-based Ion Sensing in Lipid Membranes: A Simple Way of Sensing in Aqueous Medium with Enhanced Efficiency	L. S. Barla, G. P. Pattnaik, G. Meher, S. K. Padhan, S. N. Sahu, H. Chakraborty	RSC Adv.	2019-20	Scopus	Sambalpur University	0
Synthetic approach and structural diversities of pyridylpyrazole derived late transition metal complexes	S. Sethi, S. Jena, P. K. Das, N. Behera	J. Mol. Str.	2019-20	Scopus	Sambalpur University	
Membrane Cholesterol Modulates Oligomeric Status and Peptide-membrane Interaction of Severe Acute Respiratory Syndrome Coronavirus Fusion Peptide	G. Meher, S. Bhattacharjya, H. Chakraborty	J. Phys. Chem. B	2019-20	Scopus	Sambalpur University	48
Competency of Chlorination Roasting coupled water leaching process for Potash Recovery from K-feldspar: Mechanism and Kinetics aspects	S. K. Jena, N. Dash, A. K. Samal, P. K. Misra	Kor. J. Chem. Eng.	2019-20	Scopus	Sambalpur University	
Cholesterol Alters the Inhibitory Efficiency of Peptide-based Membrane Fusion Inhibitor.	G. P. Pattnaik, H. Chakraborty	Biochim. Biophys. Acta	2019-20	Scopus	Sambalpur University	11
Membrane Cholesterol and SARS-CoV-2 Infection: A Possible Connection.	H. Chakraborty	Curr. Sci.	2019-20	Scopus	Sambalpur University	1
Differential Sensitivity of	B. D. Rao, H.	Chem. Phys.	2019-20	Scopus	Sambalpur	

pHLIP to Ester and Ether Lipids.	Chakraborty, A. Chaudhuri, A. Chattopadhyay	Lipids			University	
Effects of Silica Modified NiFe ₂ O ₄ on the Dielectric and Electrical Properties of NiFe ₂ O ₄ filled Poly (methyl methacrylate) Composites	S. Moharana, A. Kujur, S. Minz, R. N. Mahaling, B. Behera	Adv. Mater. Lett.	2019-20	Scopus	Sambalpur University	
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Structural, dielectric and electrical characteristics of yttrium modified 0.7BiFeO ₃ -0.3PbTiO ₃	Krishna Auromun ^a Sugato Hajra ^b R.N.P. Choudhary ^a Banarji Behera ^c	<i>Solid State Sciences</i>	2020	Scopus	Sambalpur University	5
Investigation of structural, dielectric and electrical properties of ZnFe ₂ O ₄ composite	Debabrata Mohanty ^a P. Mallick ^a S.K. Biswal ^a Banarji Behera ^b Ranjan K. Mohapatra ^c	Materials Today	2020	Scopus	Sambalpur University	2
Dielectric and Frequency Dependent Transport Properties of Gadolinium Doped Bismuth Ferrite	A. K. Sahu, S. K. Satpathy, S. K. Rout & Banarji Behera	Transactions on Electrical and Electronic Materials	2020	Scopus	Sambalpur University	2
Effect of Gadolinium on the structural and dielectric properties of BCZT ceramics	S Saparjya, T Badapanda, S Behera, B Behera, Piyush R Das	Phase Transitions	2020	Scopus	Sambalpur University	8
Synthesis and dielectric spectroscopic study of lead-free ferroelectric ceramic K _{0.5} Bi _{0.5} TiO ₃ -NaNbO ₃	SK Mohanty, Debi Prasad Datta, B Behera, Hari Sankar Mohanty, Biswajit Pati, Piyush R Das	Journal of Materials Science: Materials in Electronics	2020	Scopus	Sambalpur University	1
Structural, dielectric and magnetic properties of Bi-Mn doped SmFeO ₃	Rishabh Shukla, Raveena Dhaka, Shubhra Dash, Subasa Chandra Sahoo, Banarji Bahera, PD Babu, Ramjanay Choudhary, Ajit Kumar Patra	Ceramics International	2020	Scopus	Sambalpur University	5
Computational study of molecular geometries, and vibrational characteristics of two liquid crystalline disubstituted biphenylcyclohexanes using ab-initio methods	Seema Prasad, Durga P. Ojha	Mol. Cryst. Liq. Cryst. UK.	2019	Scopus	Sambalpur University	1
Fluorescence turn-on and turn-off sensing of pesticides by carbon dot-	Paulami Mandal, Dibakar Sahoo, Priyatosh	<i>New J. Chem.</i> ,	2019	Scopus	Sambalpur University	

based sensor	Sarkar, Kaushik Chakraborty and Sukhen Das					
Effect of the reverse micelle and oil content in reverse micelle on nonlinear optical properties of Rhodamine B	Abbas Rahdar, Somayeh Salmani, Dibakar Sahoo	Journal of Molecular Structure	2019	Scopus	Sambalpur University	5
Metal oxide QD based ultrasensitive microsphere fluorescent sensor for copper, chromium and iron ions in water†	Md. Motiar R. Khan, Tapas Mitra and Dibakar Sahoo	Royal Society of Chemistry	10, 9512-9524(2020)	Scopus	Sambalpur University	
Multifunctional behavior of Ca-doped niobium-based double perovskite for photovoltaic/solar cell devices	B. N. Parida, Priyabadini Biswal, S. Behera, R. K. Parida & R. Padhee	Journal of Materials Science: Materials in Electronics	2020	Scopus	Sambalpur University	
Effects of La ³⁺ addition on the phase transition, microstructure, and electrical properties of Ba _{0.85} Ca _{0.15} Zr _{0.1} Ti _{0.9} O ₃ ceramics	S. Sapatrya, S. Behera, T. Badapanda, R. Padhee & Piyush R. Das	Journal of Materials Science: Materials in Electronics	2020	Scopus	Sambalpur University	2
Effect of substitution of alkaline earth metal ion on the structural and dielectric properties of double perovskite	Nirmal Rout, S. Behera, B.N. Parida, R.K. Parida, R. Padhee	Phase Transitions A Multinational Journal	2020	Scopus	Sambalpur University	
Ferroelectric and optical behavior of Pb _{0.5} Ba _{1.5} BiNbO ₆ double perovskite	Niranjan Panda, B.N. Parida, R.K. Parida, R. Padhee	Ferroelectrics	2019	Scopus	Sambalpur University	
Impact of Seasonal Migration on Children of Scheduled Caste Community in Western Odisha, India	Madan Biswal	EPRA-International Journal of Economic and Business Review	2020		Sambalpur University	-
Milk Supply Chain Network Design (SCND): A Case of the Milk Industry in Western Region of Odisha,.	Monalisha Pattnaik,	International Journal of Strategic Decision Sciences (IJSDS),	2020		Sambalpur University	
Preservation effort effects on retailers and manufacturers in integrated multi-deteriorating item discrete supply chain model,	Monalisha Pattnaik,	JUNI KHYAT,	2020	OPSE ARCH,	Sambalpur University	
Theta autoregressive neural network model for	Monalisha Pattnaik,	JUNI KHYAT,	2020	medRxiv2020.	Sambalpur University	

COVID-19 outbreak predictions,				10.01.20205021;		
Consumers' Online Purchase Intentions: A Systematic Literature Review,	M. Pattnaik	JUNI KHYAT,	2020		Sambalpur University	
Supply Chain Network Design: A Comprehensive Literature Review,	M. Pattnaik	JUNI KHYAT	2020	Marub humi Shodh Sansthan.	Sambalpur University	
A Review on Optimization Models in Supply Chain Network Design (SCND),	M. Pattnaik	JUNI KHYAT	2020	Marub humi Shodh Sansthan.	Sambalpur University	
Factors Influencing E-tailing and Online Shopping Behavior: Literature Review,.	M. Pattnaik	JUNI KHYAT	2020	Marub humi Shodh Sansthan	Sambalpur University	
Blood Supply Chain Network Design under Uncertainty: A Comprehensive Review for Future Research Direction	M. Pattnaik	JUNI KHYAT	2020	Marub humi Shodh Sansthan	Sambalpur University	
A novel approach using incremental oversampling for data stream mining	Anupama N, Sudarson Jena	Evolving Systems	2019	SCIE, SCOPUS	Sambalpur University	
Clustering Methods Analysis on Low and High Dimensional Data	Smita Chormunge, Sudarson Jena	<i>International Journal of Computer Sciences and Engineering</i>	2019		Sambalpur University	
Improved artificial neural network With aid of artificial bee colony for medical data classification	Balasaheb Tarle, Sudarson Jena	Int. J. of Business Intelligence and Data Mining	2019	SCOPUS	Sambalpur University	
Integrating multiple methods to enhance medical data classification	Balasaheb Tarle, Sanjay Chintakindi, Sudarson Jena	Evolving Systems	2019	SCIE, SCOPUS	Sambalpur University	
An efficient exchanged hypercube for parallel and distributed network	P Venkat Reddy, Sudarson Jena, V. Kamakshi Prasad	International Journal of Recent Technology and Engineering	2019	SCOPUS	Sambalpur University	

Enhancement in Software Reliability Testing and Analysis	Pankaj N. Moharil, Sudarson Jena, V.M.Thakare	International Journal of Computer Sciences and Engineering	2019		Sambalpur University	
A Novel Approach Using Incremental Fusion Sampling For Data Stream Mining	Anupama N, Sudarson Jena, V Ravi Sankar	International Journal of Computer Sciences and Engineering	2019		Sambalpur University	
Optimization of SPEC sensing with estimated information for CRN	H Srinivas Murthy, Sudarson Jena	International Journal of Recent Technology and Engineering	2019	SCOP US	Sambalpur University	
Fractional Fuzzy Clustering and Particle Whale Optimization-Based MapReduce Framework for Big Data Clustering	Omkaresh Kulkarni, Sudarson Jena and C. H. Sanjay	Journal of Intelligent Systems	2019	SCOP US	Sambalpur University	
Keyword Spelling Suggestion based Secure File Extraction using Ontology Analysis in Cloud	Arif Mohammad Abdul, Sudarson Jena, M Bal Raju	International Journal of Management, Technology and Engineering	2019		Sambalpur University	
Secure Authentication Protocol to Cloud	Arif Mohammad Abdul, Sudarson Jena, M Bal Raju	International Journal of Computer Sciences and Engineering	2019		Sambalpur University	
Deep Feature Based Rice Leaf Disease Identification using Support Vector Machine	PK Sethy, NK Barpanda, AK Rath, SK Behera	Computers and Electronics in Agriculture, Elsevier	2020	SCIE	Sambalpur University	
Nitrogen Deficiency Prediction of Rice Crop Based on Convolutional Neural Network	PK Sethy, NK Barpanda, AK Rath, SK Behera	Journal of Ambient Intelligence and Humanized Computing. Springer	2020	SCIE	Sambalpur University	
Speech quality evaluation for different pitch detection algorithms in LPC speech analysis–synthesis system	S Kumar, S Singh, P Agarwal, U Acharya, PK Sethy, C Pandey	International Journal of Speech Technology, Springer	2020	SCOP US	Sambalpur University	

Maturity Status Classification of Papaya Fruits based on Machine Learning and Transfer Learning Approach	SK Behera, AK Rath, and PK Sethy	Information Processing in Agriculture	2020	SCOP US	Sambalpur University	
Detection of coronavirus (COVID-19) based on Deep Features and Support Vector Machine	PK Sethy, SK Behera, PK Ratha, P Biswas	International Journal of Mathematics, Engineering and Management Science	2020	SCOP US	Sambalpur University	
Hybrid power system with emission minimization: Multi-objective optimal operation	Ambarish Panda, U. Mishra, ML Tseng, MH Ali	Journal of Cleaner production	2020		Sambalpur University	
Optimizing Hybrid power Systems with Compressed Air Energy Storage	Ambarish Panda, U. Mishra, K. Aviso	Energy, The International Journal	2020		Sambalpur University	
Analytical studies on FBG based SOI structure for realization of optical interconnect, 193, 01-05	N. K Barpanda, T. K Panda, K.C Patra, J Al-Zubi, G. Palai	Optik, International Journal for Light and Electron Optics, 0030-4026, Refereed, Elsevier Science, SCI/UGC Listed	2019	SCIEU GC	Sambalpur University	
Yield Estimation of Pomegranate using Image Processing Techniques, 8(6S), 798-803	N. K Barpanda, S K Behera, A Pattnaik, N. K Barpanda, A K Rath, P K Sethy	International Journal of Innovative Technology and Exploring Engg., 2278-3075, Refereed, SCOPUS/UGC Listed	2019	SCOP US UGC	Sambalpur University	
Rice Leaf Blast Detection using on-field Image of Western tract of Odisha based on Image Processing, 8(6S), 483-487	N. K Barpanda, P K Sethy, S L Dash, A K Rath	International Journal of Innovative Technology and Exploring Engg., 2278-3075, Refereed SCOPUS/UGC Listed	2019	SCOP US UGC	Sambalpur University	

Nitrogen Status Estimation of Rice crop in Western tract of Odisha based on Image Processing Techniques, 8(6S), 427-429	N. K Barpanda, P K Sethy, Y Bhitiria, A K Rath	International Journal of Innovative Technology and Exploring Engg., 2278-3075, Refereed SCOPUS/UGC Listed	2019	SCOPUS UGC	Sambalpur University	
Detection & Identification of Rice leaf Diseases using Multiclass SVM and Particle Swarm Optimization Technique, 8(6S2), 108-120	N. K Barpanda, P K Sethy, A K Rath	International Journal of Innovative Technology and Exploring Engg., 2278-3075, Refereed SCOPUS/UGC Listed	2019	SCOPUS UGC	Sambalpur University	
Fault Tolerant Routing in Heterogeneous Environment, Accepted for Publication in Aug.2019 8(8)	N. K Barpanda, P K Sethy, S Dash, A K Rath	Journal of Emerging Technologies and Innovative Research, 2349-5162 Refereed, UGC Listed	2019	UGC	Sambalpur University	
BRANN Model for Identification of Rice Leaf Diseases using Texture Feature, 6(5), 569-573, 2019	N. K Barpanda, P K Sethy, K Patel, A K Rath	Journal of Emerging Technologies and Innovative Research, 2349-5162, Refereed, UGC Listed	2019	UGC	Sambalpur University	
Rice Nitrogen Status Estimation of Western tract of Odisha using SVM based on color feature: A Comparative Analysis with LCC, 7(4), 397-400, 2019	N. K Barpanda, P K Sethy, B BNayak, A K Rath	International Journal of Research in Advent Technology, 2321-9673, Refereed	2019		Sambalpur University	
A Smart CAN-Bus Model for In-Vehicle Message Passing Channel, 7(5), 28-32, 2019	N. K Barpanda, P K Sethy, D Jena, G R Panigrahi	International Journal of Research in Advent Technology, 2321-9673, Refereed	2019		Sambalpur University	
Rice Panicle Blast Detection and Grading	N K Barpanda, P K Sethy, S K	International Journal of	2019		Sambalpur University	

based on Image Processing Technique, 7(5), 165-168, 2019	sahu, A K rath	Computer Science and Engineering, 2347-2693, Refereed				
Maximization of Network Reliability Using ANN under Node-Link Failure Model, 8(9), 2306-2310, 2019	N K Barpanda, M Panda	International Journal of Scientific & Technology Research , 2277-8616, RefereedSC OPUS/ UGC Listed	2019	UGC	Sambalpur University	
Congestion Control in Cable Network Transmission using Novel RED Algorithm, 8(10), 2322-2324, 2019	N K Barpanda, P K dash, M Panda	International Journal of Innovative Technology and Exploring Engineering , 2278-3075, RefereedSC OPUS/ UGC Listed	2019	SCOP USUG C	Sambalpur University	
Improved Long Haul WDM Framework Utilizing Wideband Apodized Chirped FBG Dispersion Compensator, 8(10), 979-982, 2019	N K Barpanda, B Prasad, K C Patra, B Mallick	International Journal of Scientific & Technology Research, 2277-8616, Refereed SCOPUS/ UGC Listed	2019	SCOP USUG C	Sambalpur University	
Efficient Recognition and Analysis of Epileptic Seizure Using Electroencephalogram'', , Vol.10 / Issue 60 / June / 2020	Millee Panigrahi, Radhagobinda Pradhan and Krishna Chandra Patra	Indian Journal of Natural Sciences	2020		Sambalpur University	
'Epileptic Seizure Classification of EEG Signals using XG Boost Classifier'', VOLUME 14, ISSUE 5, 2020	Millee Panigrahi, Radhagobinda Pradhan and Krishna Chandra Patra	Journal of Xidian University	2020		Sambalpur University	
Classification of EEG Recording in an Epileptic Patient Using DWT and Extreme Gradient Boosting Classifier, Vol. 29, No. 5, (2020), pp. 4163 – 4180	Millee Panigrahi, Radhagobinda Pradhan and Krishna Chandra Patra	International Journal of Advanced Science and Technology	2020		Sambalpur University	
Detection of Human Brain Activities in a Normal Human being,	Ashima Sindhu Mohanty, Krishna	International Journal of Innovative	2019		Sambalpur University	

Volume-8 Issue-10, August 2019.	Chandra Patra, Akshya Kumar Sahoo	Technology and Exploring Engineering (IJITEE)				
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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 the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Caste-based migration and exposure to abuse and exploitation: Dadan labour migration in India	Prof. Arun Kumar Acharya	Contemporary Social Science	2020	49	2	Sambalpur University
Prevalence of violence against indigenous women victims of human trafficking and its implications on physical injuries and disabilities in Monterrey city, Mexico	Prof. Arun Kumar Acharya	Health Care for Women International	2019		5	Sambalpur University
Biotyping and Phylogenetic analysis of bacterial isolates prevalent in a local Hospital environment	Padhan M. and Pattnaik S.,	<i>Research Journal of Biotechnology</i> , 14(11), 52-61.	2019		0	Sambalpur University
Effect of Environmental Factors on Biofilm Production of the bacterial strains isolated from the patient with Nosocomial Infection.	S. Panda and Pattnaik S.	<i>Research Journal of Biotechnology</i> 15 (6), 10,	2020		0	Sambalpur University
Non-Pathogenic bacteria in Bioremediation of Cr (VI) for decontaminatio	Ganguly S and Pattnaik S	<i>International Journal of Lifescience and Pharma Research</i> 10 940, 41-49.	2020			Sambalpur University

n of ground water: An Extensive Review.		ISSN 2250-0480.				
Phytosynthesis, characterization and fungicidal potential of emerging gold nanoparticles using Pongamia pinnata leave extract: a novel approach in nanoparticle synthesis.	Khatua A, Priyadarshini E, Rajamani P, Patel AK, Kumar J, Naik A, Saravanan M, Barabadi H, Prasad A, Paul B, Meena R,	<i>Journal of Cluster Science</i> 31 (1), 125-131	2020		40	Sambalpur University
Characterization of intraspecific hybrid in <i>Clitoria ternatea</i> (L.) using morpho-physiological, cytogenetic, metabolic and molecular markers.	Naik A, Patel AK, Mishra SK, Nag A, Panigrahi J.,	<i>Caryologia. International Journal of Cytology, Cytosystematics and Cytogenetics</i> . 72(3), 11-22.	2019		0	Sambalpur University
Genetic association of ACE gene I/D polymorphism with the risk of diabetic kidney disease; a meta-analysis,	Bhaskar, L, Khare RL, Verma HK, Pattnaik S,	<i>Journal of Nephropathology</i> , 8(4), 1-8.	2019		1	Sambalpur University
A Retrospective Look at Anti-EGFR Agents in Pancreatic Cancer Therapy.	Verma HK, Kampalli P K, Lakkakula S, Chalikonda G, Bhaskar, L, Pattnaik S,	<i>Current drug metabolism</i> , 20(12), 958–966	2019		0	Sambalpur University
Persister cell development among Enterobacteriaceae, Pseudomonadaceae, Mycobacteriaceae and Staphylococcaceae biotypes: A	Behera S, and Pattnaik S,	<i>Biocatalysis and Agricultural Biotechnology</i> . 22. 101401. 10.1016/j.bcab.2019.101401.	2019		2	Sambalpur University

review.						
Empirical Optimization Of Culture Conditions For L-Glutamic Acid Production By <i>Corynebacterium Glutamicum</i> X680.	Ganguly S and Pattnaik S.,	<i>International Journal of Pharmaceutical Sciences and Research</i> , 12 (1), 536-546.E-ISSN: 0975-8232; P-ISSN: 2320-5148	2019		3	Sambalpur University
A concept paper on 'The Enigma of COVID-19'	Pattnaik S,	<i>Cell & Cellular Life Science Journal</i> , 4 (1), 3	2020		0	Sambalpur University
Effect of Environmental Factors on Biofilm Production of the bacterial strains isolated from the patient with Nosocomial Infection.	S. Panda and Pattnaik S.	<i>Research Journal of Biotechnology</i> 15 (6), 10,	2020		0	Sambalpur University
Biofunctionalized cellulose paper matrix for cell delivery applications.	Agarwal T., Maiti TK, Behera B, Ghosh SK, Apoorva A, Padmavati M.	<i>International journal of biological macromolecules</i> . 139, 114-127	2019		5	Sambalpur University
Structural insights into the molecular mechanisms of pectinolytic enzymes.	A Kanungo, BP Bag.,	<i>Journal of Proteins and Proteomics</i> . 10 (4), 325-344	2019		1	Sambalpur University
Characterization of Structural Conformers of κ -casein Utilizing Fluorescence Spectroscopy	L. Mirdha, H. Chakraborty	<i>Int. J. Biol. Macromol.</i>	2019-20		4	Sambalpur University
Cholesterol Modulates Membrane Properties and the Interaction of gp41 Fusion Peptide to Promote Membrane	G. Meher, S. Sinha, G. P. Pattnaik, D. S. Ghosh, H Chakraborty	<i>J. Phys. Chem. B</i>	2019-20		12	Sambalpur University

Fusion						
Exploration of the structural and dielectric characteristics of a potent hydroxyapatite coated gallium bioceramics for the forthcoming biomedical and orthopedic applications	B. Nayak, P. K. Misra	Mater. Chem. Phys.	2019-20			Sambalpur University
Diverse synthetic approach for sulfur and nitrogen-containing spiroheterocycles from dimesone and their pharmacological evaluation	P. P. Mohanta, P. Majumdar, S. Sahu, A K Behera	Synth. Commun.	2019-20			Sambalpur University
High performance of hydroxylated BiFeO ₃ /Polystyrene composite films with enhanced dielectric constant and low dielectric loss	S. Moharana, R N Mhaling	J. Aust. Ceram. Soc.	2019-20			Sambalpur University
Assessment of Ground Water Quality for Rural Areas of Paradeep-City	H. Meher, P. K. Behera, S. N. Panda, A. K. Sarangi	Water Energy Int.	2019-20			Sambalpur University
A Novel Molecular Descriptor Derived from Weighted Line Graph	C. Adhikari, B. K. Mishra	Iran. J. Math. Chem.	2019-20			Sambalpur University
Ultrasensitive detection of aqueous Cu ²⁺ ions by a coumarin-salicylidene based AIEgen.	S. K. Padhan, N. Murmu, S. Mahapatra, M. K. Dalai, S. N. Sahu	Mater. Chem. Front.	2019-20		15	Sambalpur University
Fluorescence-	L. S. Barla, G. P.	RSC Adv.	2019-20		0	Sambalpur

based Ion Sensing in Lipid Membranes: A Simple Way of Sensing in Aqueous Medium with Enhanced Efficiency	Pattnaik, G. Meher, S. K. Padhan, S. N. Sahu, H. Chakraborty					University
Synthetic approach and structural diversities of pyridylpyrazole derived late transition metal complexes	S. Sethi, S. Jena, P. K. Das, N. Behera	J. Mol. Str.	2019-20			Sambalpur University
Membrane Cholesterol Modulates Oligomeric Status and Peptide-membrane Interaction of Severe Acute Respiratory Syndrome Coronavirus Fusion Peptide	G. Meher, S. Bhattacharjya, H. Chakraborty	J. Phys. Chem. B	2019-20		48	Sambalpur University
Competency of Chlorination Roasting coupled water leaching process for Potash Recovery from K-feldspar: Mechanism and Kinetics aspects	S. K. Jena, N. Dash, A. K. Samal, P. K. Misra	Kor. J. Chem. Eng.	2019-20			Sambalpur University
Cholesterol Alters the Inhibitory Efficiency of Peptide-based Membrane Fusion Inhibitor.	G. P. Pattnaik, H. Chakraborty	Biochim. Biophys. Acta	2019-20		11	Sambalpur University
Membrane Cholesterol and SARS-CoV-2 Infection: A Possible	H. Chakraborty	Curr. Sci.	2019-20		1	Sambalpur University

Connection.						
Differential Sensitivity of pHLP to Ester and Ether Lipids.	B. D. Rao, H. Chakraborty, A. Chaudhuri, A. Chattopadhyay	Chem. Phys. Lipids	2019-20			Sambalpur University
Effects of Silica Modified NiFe ₂ O ₄ on the Dielectric and Electrical Properties of NiFe ₂ O ₄ filled Poly (methyl methacrylate) Composites	S. Moharana, A. Kujur, S. Minz, R. N. Mahaling, B. Behera	Adv. Mater. Lett.	2019-20			Sambalpur University
Triazole derived azo-azomethine dye as a new colorimetric anion chemosensor	C. Chatterjee, S. Sethi, V. Mukherjee, P. K. Sahu, N. Behera	Spectrochim. Acta A	2019-20			Sambalpur University
Heavy metal removal from water by adsorption using a low-cost geopolymer	L. Panda, K. Jena, S. S. Ratha, P. K. Misra	Environ. Sci. Pollut. Res.	2019-20			Sambalpur University
Treatment of Surface-Hydroxylated BaTiO ₃ Particles by Bis(2-ethylhexyl) sulfosuccinate Sodium Salt (AOT) to Improve the Dielectric and Electrical Properties of BaTiO ₃ -Poly(vinylidene fluoride) Composites	S. Moharana, M. Chopkar, R. N. Mahaling	J. Electron. Mater.	2019-20			Sambalpur University
Resonance assignments and secondary structure prediction of secretory protein Rv0603 from Mycobact	S. Tripathi, R. Yadav, A. Jain, S. V. S. R. K. Pulavarti, P. P. Pathak, A. K. Behera, A. Arora	Biomol NMR Assign	2019-20			Sambalpur University

erium tuberculosis H37Rv.						
Vibrational and electronic spectral analyses of substituted N-benzylideneanilines for possible applications as materials for a functional dyad: Theoretical and experimental explorations	P. Hota, S. P. Biswal, P. K. Misra	Mater. Today: Proc.	2019-20			Sambalpur University
Hydroxyapatite :A potent material for adsorption, chemical reactions and biological studies	B. Nayak , A. Samant, M. Saxena, P. K. Misra	Mater. Today: Proc.,	2019-20			Sambalpur University
Role of maceral composition on the formulation of concentrated coal-water slurry using a natural surfactant	J. Meher, D. Das, A. K. Samal, P. K. Misra	Mater. Today: Proc.	2019-20			Sambalpur University
Understanding the organization of polyoxyethylated alkyl ethers of variable hydrocarbon and oxyethylene chain length in solution and at air-water interface	A. K. Naik, J. Meher, P. Khandagiri, A. K. Samal, P. K. Misra	Mater. Today: Proc.	2019-20			Sambalpur University
Identification of the secondary structure of protein isolated from deoiled cake flour of Mahua	A. Biswal, A. K. Samal, M. Tripathy, P. K. Misra	Mater. Today: Proc.	2019-20			Sambalpur University

(Madhucalatifolia)						
Ion-adduct with hydrophobic scaffold: synthesis, characterization and solution behavior	A. K. Naik, S. P. Biswal, P. Hota, M. Mithilesh, M. Saxena, P. K. Misra	Mater. Today: Proc.	2019-20			Sambalpur University
Multiple processor scheduling with optimum execution time and processor utilization based on the SOSA	Nayak, S.K., Panda, C.S.	International Journal of Recent Technology and Engineering	2019		1	Sambalpur University
Palynological investigation of the Lower Gondwana outcrop near Gopalprasad, Odisha, India: An inference on the age, palaeovegetation and palaeoclimate	Mrutyunjay Sahoo, Shreerup Goswami, Neha Aggarwal	<i>Journal of the Palaeontological Society of India</i> , 65 (1): 27-35	2020			Sambalpur University
Geochemical Appraisal of Groundwater qualities and its uses in and around Maneswar block of Sambalpur district, Odisha	Nandita Mahanta, Itishree Mishra, Abhisek Hatui, P.S. Mahanta, H.K. Sahoo, Shreerup Goswami.	Environmental Earth Sciences, 79: 5	2020		2	Sambalpur University
Palaeofloristics of Lower Gondwana Exposure near Kumunda Village, Angul District, Talcher Basin, Odisha, India: A comprehensive study on megafloral and palynofloral assemblages	Mrutyunjay Sahoo, Shreerup Goswami (Corresponding author), Neha Aggarwal, SSK Pillai	<i>Journal of the Geological Society: India</i> . 95 (3):241-254	2020		3	Sambalpur University

Cyclocrinids from the Lower Palaeozoic Tethyan sequence of Spiti, India.	Husain Shabbar, Anju Saxena, Kamal Jeet Singh, Shreerup Goswami	Palaeoworld 29:534-543 (Elsevier) (ISSN:1871-174X) https://doi.org/10.1016/j.palwor.2019.07.007 IF:1.841	2020		2	Sambalpur University
Megafloristics of fossiliferous beds from Chaurimal Stone Quarry, Ib River Coalfield, Odisha, India and their biostratigraphic implications.	R R Swain, R Patel, M Sahoo, A C Kishan, Shreerup Goswami (corresponding author) (2020).	Himalayan Geology 41 (1):39-50 (ISSN: 0971-8966) http://www.himgelogy.com/# IF: 1.293	2020		2	Sambalpur University
Modeling and simulation of OBPN for forecasting of long-range monsoon AWR over a smaller homogeneous region through astrological parameters and its verification for 2019	Sanjeev Karmakar, Shreerup Goswami (2020).	Iran Journal of Computer Science 3, 35–57 (Springer) (ESCI Indexed) https://doi.org/10.1007/s42044-019-00051-0	2020		1	Sambalpur University
Development of the <i>Glossopteris</i> flora and its end Permian demise in the Tatapani–Ramkola Coalfield, Son–Mahanadi Basin, India	Anju Saxena, Kamal Jeet Singh, Christopher J. Cleal, Shaila Chandra, Shreerup Goswami, Husain Shabbar (2019)	<i>Geological journal</i> 54:2472–2494. (Published by Wiley and Sons on behalf of The Liverpool Geological Society, USA).	2019		11	Sambalpur University
An exclusive Schizoneura Forest: an emblematic Late Permian Tropical Marsh ecosystem	Geetika Tripathy, Shreerup Goswami (corresponding author), Roshni Patel (2019)	<i>Journal of the Geological Society India</i> .94, 485-492 (co-published by Springer) IF: 1.459	2019		2	Sambalpur University

Statistical assessment of long term shore-line change along the Northern coast of Odisha, East coast of India.	K.K.Barik, R Annaduari, P. K. Mishra, R.S. Mohendra, D. Mitra.	Geo Marine Science vo. 48(12) pp. 1990-1998	2019			Sambalpur University
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Morbidity, Household Spending and the Burden of Health Care on the Urban Poor in Orissa	S Das	Journal of Health Management	2012		1	Sambalpur University
Piaget's Theory of Cognitive Development in the context	Dr. Debasis Mahapatra	Pedagogy of Learning	2019			Sambalpur University

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A Study of Effect of Co-Curricular Activities in Developing Values in Adolescence	Dr. Debasis Mahapatra	International Journal of All Research Education and Scientific Methods (IJARESM)	2020			Sambalpur University
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Apropos Basanti in English Translation: Writing/Interrogating the New Woman	A K Mohapatra	Sambalpur Studies in Literatures and Cultures	2019			Sambalpur University
Seeing Through Colonial Eyes: Women and Landscape in English Literary Texts	Aloka Patel	Sambalpur Studies in Literatures and Cultures	2019			Sambalpur University
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Sri Aurobindo and Nationalism	Sabita Tripathy	The Critical Endeavour	2020			Sambalpur University
Interrogating Translation Through Gender Perspectives	Sabita Tripathy	International Journal of Creative Research Thoughts	2020			Sambalpur University
Apropos Tagore's <i>The Home and the World</i> (Ghare Baire)	Sabita Tripathy	Journal of Rajasthan Association for Studies in English	2020			Sambalpur University

‘Vyasa’s Leftovers’: Shifting [Con]text of Draupadi from Myth to Fiction’	Aloka Patel	Lokratna	2020			Sambalpur University
Edited: The American Fiction from Hawthorne to Heller: Cultural Contexts and Critical Perspectives	A K Mohapatra	MacMillan	2020			Sambalpur University
Ambient air quality and air pollution index of sambalpur: A Major town in Eastern India	Chandan Sahu, S.K. Sahu	International Journal of Environmental Science and Technology (Springer)	2019			Sambalpur University
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Assessment of groundwater	Rabindra Barik and Sanjaya Kumar	Groundwater for	2019			Sambalpur University

quality for irrigation of green spaces in the Rourkela city of Odisha, India	Pattanayak	Sustainable Development, Elsevier				
Tree Species Population Dynamics in the Tropical Dry Deciduous Forest of Gandhamardan Hills, Eastern Ghats, Western Odisha	A.K. Bhadra & Sanjaya Kumar Pattanayak	Indian Forester	2019			Sambalpur University
Plant Taxonomic Diversity: An Assessment on Gandhamardan hill range of Western Odisha, India	A.K. Bhadra, S.K. Pattanayak and N.K. Dhal (2020)	Indian Forester	2020			Sambalpur University
Study of Drainage Morphometry of Hatti River Valley in Mahanadi Basin	Binaya Kumar Pattnaik, Sanjaya Kumar Pattanayak and Chandan Sahu (2020)	Odisha using Geographical Information System. Poll Research	2020			Sambalpur University
Death Field: Cancer stalks Odisha's agriculture-intensive Bargarh District raising questions over its link with pesticide overuse	Dr. M.R. Mahananda	Down to Earth	2019			Sambalpur University
Study of change in ecosystem of IB coalfield of Mahanadi Coalfields Limited and its Impacts on climate change due to open pit mining	D.K. Khanda, S. Roy Choudhury and M.R. Mahananda	Journal of Environmental Research and Development	2019			Sambalpur University
Quantification of	M.R. Mahananda	International Research	2020			Sambalpur University

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Spatial Distribution of Heavy metals in Waters of the Mahanadi Estuary, Paradeep, Odisha.	M.R.Mahananda	Pollution Research	2020			Sambalpur University
Food security and nutritional status among rural poor: Evaluating the impact of rural livelihood mission in Odisha, India	Abhisek Mishra, Sujit Kumar Mishra, Iswar Baitharu, TusharKanta Mishra	Journal of Reviews on Global Economics	2020			Sambalpur University
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Knowledge and Hygiene practice of Home Makers on Food Safety:A Comparative Study in Rourkela,Odisha	Trupti Pradhan	International Journal of Applied Home Science	2020			Sambalpur University
Role of Corporate Social Responsibilities in Women Empowerment	Trupti Pradhan	International Journal of Applied Social Science	2020			Sambalpur University
Food Intake of Expectant Mothers and its association with birth weight of Newborns	Dr. ChandrashreeLenka	International Journal of Multidisciplinary Educational Research	2020			Sambalpur University
A study on reproductive health care and hygiene practice of adolescence girls in Haldia Town of West Bengal.	Dr. ChandrashreeLenka	IOSR Journal of Nursing and Health Science	2020			Sambalpur University
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Risk factors associated with maternal health parameters & its impact on newborns birth weight	Dr. Chandrashree Lenka	ANGARU Research Journal	2020			Sambalpur University
Child Abuse: An Universal Phenomenon	Mohapatra, Diptirekha	International Journal of Multidisciplinary Research Review	2020			Sambalpur University
Legal Issues and Challenges of Domestic Violence	Panda, Prjana Paramita & Mohapatra, Diptirekha	Shodh Sanchar Bulletine	2020			Sambalpur University
Importance of Bail vis-a-vis Discretionary Power of the Court in India: An Analysis	Sahu Meena Ketan	CRIMES	2020			Sambalpur University
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The Effects of Dimensions of Organizational Structure on Innovation in Business School Libraries in India: An Empirical Study. V. 56 (4)	MISHRA, C & MAHARANA, BULU	SRELS Journal of Library Management , ISSN: 0972-2467 (UGC – CARE List)	2019		0	Sambalpur University
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Controlling the trade-off between spikelet number and grainfilling:the hierarchyof starch synthesisinspikeletsof rice panicle in relation to hormone dynamics	Panigrahi, R., Kariali, E., Panda, B.B., Lafarge, T. And Mohapatra, P.K.	<i>Functional Plant Biology, CSIRO, Australia.</i>	2019		8	Sambalpur University
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Diversity and Ecology of	Mallik SN, Ekka NJ, Kumar S and	<i>Diversity and Ecolog</i>	2019		4	Sambalpur University

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Mineralogical composition and carbon content of soil and water amongst Betel vineyards of coastal Odisha, India	Patra B, Pal R, Paulraj R, Pradhan SN, Meena R	<i>. SN Applied Sciences.</i>	2020		1	Sambalpur University
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Effect of Different Land use Practices on Earthworm Abundance and Soil Properties, 9, (3): 1290-1294, 2020	Bachha B and Sahoo S	<i>International Journal of Science and Research (IJSR)</i>	2020			Sambalpur University
Prevalence and risk factor associated with bacterial vaginosis and Candidiasis in non-pregnant women of Western Odisha, India	Nayak M, Sinha S, Debta A, Purohit P, Patel S, Patel O, Das P and Sahoo S	<i>Indian Journal of Evolution Med. Dent. Sci.</i>	2020			Sambalpur University
Identities concerning k-balancing and k-Lucas-balancing numbers of arithmetic indexes,	Prof. Prasanta Kumar Ray	AIMS Mathematics ,	2019			Sambalpur University
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Appliations of Third Order differential Sub-ordination and Super Ordination involving generalized Struve function	Dr.Priyabrat Gochhayat	Filomat	2019		--	Sambalpur University
On Certain Harmonic mappings with some fixed co-efficients	Dr.Priyabrat Gochhayat	Monatshefte Fur Mathematik	2019		--	Sambalpur University
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Legendre multi-Galerkin methods for Fredholm integral equations with weakly singular kernel and the corresponding eigen value problems	Dr (Mrs) Bijayalaxmi Panigrahi	Journal of Computational and Applied Mathematics	2019		6	Sambalpur University
Error analysis of Jacobi spectral collocation methods for Fredholm-Hammerstein integral equations with weakly singular kernel	Dr(Mrs) Bijayalaxmi Panigrahi	International Journal of computer Mathematics	2019		1	Sambalpur University
Legendre	Dr (Mrs)	The Journal	2020		2	Sambalpur

spectral projection methods for Hammerstein integral equations of mixed type	Bijayalaxmi Panigrahi	of Analysis				University
Outsourcing in E-Governance : A fuzzy AHP Approach	D. K. Mahalik	The IUP journal of Management Research	2019			Sambalpur University
Core-crust transition in neutron stars with finite-range interactions: The dynamical method	C. Gonzalez-Boquera, M. Centelles, X. Viñas, and T. R. Routray	American Physical Society	2019		6	Sambalpur University
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The r-mode instability of the neutron star matter under the influence of URCA reactions	T. R. Routray,* S. P. Pattnaik ^{1,4} , X. Viñas ² , D. N. Basu ³ , M. Centelles ² and K. Madhuri ^{1,5}	Proceeding of DAE symposium on Nuclear Physics	2019			Sambalpur University
Influence of the functional form of the Finite range interaction in the predictions of finite Nuclei	P. Bano ¹ , C. Gonzalez-Boquera ² , T. R. Routray, X. Viñas ² , M. Centelles ² and D. Behera ¹	Proceeding of DAE symposium on Nuclear Physics	2019			Sambalpur University
Structural, optical and impedance spectroscopic studies of lead-free 0.2(K _{0.5} Bi _{0.5} TiO ₃)–0.8(NaNbO ₃) solid solution	S. K. Mohanty, Krishnamayee Bhoi, Banarji Behera, S. Behera & Piyush R. Das	Journal of Materials Science: Materials in Electronics	2019			Sambalpur University
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Dielectric and frequency-dependent transport properties of lanthanum-doped bismuth ferrite	A. K. Sahu ^a , S. K. Satpathy and Banarji Behera	Journal of Advanced Dielectrics	2019			Sambalpur University
Broad range frequency – temperature response of Ba ₂ Zn ₂ Fe ₁₂ O ₂₂	Bibhuti B. Sahu ^a , S. K. Patri ^a , Banarji Behera ^b	Physics Letter A (Elsevier)	2019			Sambalpur University
Structural, dielectric, electrical properties of Nd doped double perovskite ceramics and variation of density of states upon doping	Ambika Ray ^a , Tanmoy Basu ^b , Banarji Behera ^a , Deepak S. Gavalic ^c , Ranjit Thapa ^c , Saumitra Vajandar ^d , Thomas Osipowicz, P. Nayak	<i>Materials Chemistry and Physics</i>	2020		6	Sambalpur University
Dielectric and frequency dependent transport properties in magnesium doped CuFe ₂ O ₄ composite	Debabrata Mohanty, Santosh K. Satpathy, Banarji Behera, Ranjan K. Mohapatra	Materials Today	2020		4	Sambalpur University
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Investigation of structural, dielectric and electrical properties of ZnFe ₂ O ₄ composite	Debabrata Mohanty ^a , P. Mallick ^a , S. K. Biswal ^a , Banarji Behera ^b , Ranjan K. Mohapatra ^c	Materials Today	2020		2	Sambalpur University
Dielectric and Frequency Dependent Transport	A. K. Sahu, S. K. Satpathy, S. K. Rout & Banarji Behera	Transactions on Electrical and Electronic	2020		2	Sambalpur University

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Effect of Gadolinium on the structural and dielectric properties of BCZT ceramics	S Saparjya, T Badapanda, S Behera, B Behera, Piyush R Das	Phase Transitions	2020		8	Sambalpur University
Synthesis and dielectric spectroscopic study of lead-free ferroelectric ceramic K 0.5 Bi 0.5 TiO 3- NaNbO 3	SK Mohanty, Debi Prasad Datta, B Behera, Hari Sankar Mohanty, Biswajit Pati, Piyush R Das	Journal of Materials Science: Materials in Electronics	2020		1	Sambalpur University
Structural, dielectric and magnetic properties of Bi–Mn doped SmFeO3	Rishabh Shukla, Raveena Dhaka, Shubhra Dash, Subasa Chandra Sahoo, Banarji Bahera, PD Babu, Ramjanay Choudhary, Ajit Kumar Patra	Ceramics International	2020		5	Sambalpur University
Computational study of molecular geometries, and vibrational characteristics of two liquid crystalline disubstituted biphenylcyclohexanes using ab-initio methods	Seema Prasad, Durga P. Ojha	Mol. Cryst. Liq. Cryst. UK.	2019		1	Sambalpur University
Fluorescence turn-on and turn-off sensing of pesticides by carbon dot-based sensor	Paulami Mandal, Dibakar Sahoo, Priyatosh Sarkar, Kaushik Chakraborty and Sukhen Das	<i>New J. Chem.</i> ,	2019			Sambalpur University
Effect of the reverse micelle and oil content in reverse micelle on nonlinear optical	Abbas Rahdar, Somayeh Salmani, Dibakar Sahoo	Journal of Molecular Structure	2019		5	Sambalpur University

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Multifunctional behavior of Ca-doped niobium-based double perovskite for photovoltaic/solar cell devices	B. N. Parida, Priyabadini Biswal, S. Behera, R. K. Parida & R. Padhee	Journal of Materials Science: Materials in Electronics	2020			Sambalpur University
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Effect of substitution of alkaline earth metal ion on the structural and dielectric properties of double perovskite	Nirmal Rout, S. Behera, B.N. Parida, R.K. Parida, R. Padhee	Phase Transitions A Multinational Journal	2020			Sambalpur University
Ferroelectric and optical behavior of Pb _{0.5} Ba _{1.5} BiNbO ₆ double perovskite	Niranjan Panda, B.N. Parida, R.K. Parida, R. Padhee	Ferroelectrics	2019			Sambalpur University
Impact of Seasonal Migration on Children of Scheduled Caste Community in Western Odisha, India	Madan Biswal	EPRA-International Journal of Economic and Business Review	2020		-	Sambalpur University
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A novel approach using incremental oversampling for data stream mining	Anupama N, Sudarson Jena	Evolving Systems	2019			Sambalpur University
Clustering Methods Analysis on Low and High Dimensional Data	Smita Chormunge, Sudarson Jena	<i>International Journal of Computer Sciences and Engineering</i>	2019			Sambalpur University
Improved artificial neural network With aid of artificial bee colony for medical data classification	Balasaheb Tarle, Sudarson Jena	Int. J. of Business Intelligence and Data Mining	2019			Sambalpur University
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An efficient exchanged hypercube for parallel and distributed network	P Venkat Reddy, Sudarson Jena, V. Kamakshi Prasad	International Journal of Recent Technology and Engineering	2019			Sambalpur University
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Optimization of SPEC sensing with estimated information for CRN	H Srinivas Murthy, Sudarson Jena	International Journal of Recent Technology and Engineering	2019			Sambalpur University
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Fuzzy Clustering and Particle Whale Optimization-Based MapReduce Framework for Big Data Clustering	Sudarson Jena and C. H. Sanjay	Intelligent Systems				University
Keyword Spelling Suggestion based Secure File Extraction using Ontology Analysis in Cloud	Arif Mohammad Abdul, Sudarson Jena, M Bal Raju	International Journal of Management , Technology and Engineering	2019			Sambalpur University
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Maturity Status Classification of Papaya Fruits based on Machine Learning and Transfer Learning Approach	SK Behera, AK Rath, and PK Sethy	Information Processing in Agriculture	2020			Sambalpur University
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coronavirus (COVID-19) based on Deep Features and Support Vector Machine	Behera, PK Ratha, P Biswas	Journal of Mathematics , Engineering and Management Science				University
Hybrid power system with emission minimization: Multi-objective optimal operation	Ambarish Panda, U. Mishra, ML Tseng, MH Ali	Journal of Cleaner production	2020			Sambalpur University
Optimizing Hybrid power Systems with Compressed Air Energy Storage	Ambarish Panda, U. Mishra, K. Aviso	Energy, The International Journal	2020			Sambalpur University
Analytical studies on FBG based SOI structure for realization of optical interconnect, 193, 01-05	N. K Barpanda, T. K Panda, K.C Patra, J Al-Zubi, G. Palai	Optik, International Journal for Light and Electron Optics, 0030-4026, Refereed, Elsevier Science, SCI/UGC Listed	2019			Sambalpur University
Yield Estimation of Pomegranate using Image Processing Techniques, 8(6S), 798-803	N. K Barpanda, S K Behera, A Pattnaik, N. K Barpanda, A K Rath, P K Sethy	International Journal of Innovative Technology and Exploring Engg., 2278-3075, Refereed, SCOPUS/ UGC Listed	2019			Sambalpur University
Rice Leaf Blast Detection using on-field Image of Western tract of Odisha based on Image Processing, 8(6S), 483-487	N. K Barpanda, P K Sethy, S L Dash, A K Rath	International Journal of Innovative Technology and Exploring Engg., 2278-3075, Refereed SCOPUS/ UGC Listed	2019			Sambalpur University
Nitrogen Status Estimation of	N. K Barpanda, P K Sethy, Y Bhitiria, A	International Journal of	2019			Sambalpur University

Rice crop in Western tract of Odisha based on Image Processing Techniques, 8(6S), 427-429	K Rath	Innovative Technology and Exploring Engg., 2278-3075, Refereed SCOPUS/ UGC Listed				
Detection & Identification of Rice leaf Diseases using Multiclass SVM and Particla Swarm Optimization Technique, 8(6S2), 108-120	N. K Barpanda, P K Sethy, A K Rath	International Journal of Innovative Technology and Exploring Engg., 2278-3075, Refereed SC OPUS/ UGC Listed	2019			Sambalpur University
Fault Tolerant Routing in Heterogeneous Environment, Accepted for Publication in Aug.2019 8(8)	N. K Barpanda, P K Sethy, S Dash, A K Rath	Journal of Emerging Technologies and Innovative Research, 2349-5162 Refereed, UGC Listed	2019			Sambalpur University
BRANN Model for Identification of Rice Leaf Diseases using Texture Feature, 6(5), 569-573, 2019	N. K Barpanda, P K Sethy, K Patel, A K Rath	Journal of Emerging Technologies and Innovative Research, 2349-5162, Refereed, UGC Listed	2019			Sambalpur University
Rice Nitrogen Status Estimation of Western tract of Odisha using SVM based on color feature: A Comparative Analysis with LCC, 7(4), 397-400, 2019	N. K Barpanda, P K Sethy, B BNayak, A K rath	International Journal of Research in Advent Technology, 2321-9673, Refereed	2019			Sambalpur University
A Smart CAN-Bus Model for In-Vehicle Message Passing Channel, 7(5), 28-32, 2019	N. K Barpanda, P K Sethy, D Jena, G R Panigrahi	International Journal of Research in Advent Technology, 2321-9673, Refereed	2019			Sambalpur University

Rice Panicle Blast Detection and Grading based on Image Processing Technique, 7(5), 165-168, 2019	N K Barpanda, P K Sethy, S K sahu, A K rath	International Journal of Computer Science and Engineering, 2347-2693, Refereed	2019			Sambalpur University
Maximization of Network Reliability Using ANN under Node-Link Failure Model, 8(9), 2306-2310, 2019	N K Barpanda, M Panda	International Journal of Scientific & Technology Research , 2277-8616, RefereedSC OPUS/ UGC Listed	2019			Sambalpur University
Congestion Control in Cable Network Transmission using Novel RED Algorithm, 8(10), 2322-2324, 2019	N K Barpanda, P K dash, M Panda	International Journal of Innovative Technology and Exploring Engineering , 2278-3075, RefereedSC OPUS/ UGC Listed	2019			Sambalpur University
Improved Long Haul WDM Framework Utilizing Wideband Apodized Chirped FBG Dispersion Compensator, 8(10), 979-982, 2019	N K Barpanda, B Prasad, K C Patra, B Mallick	International Journal of Scientific & Technology Research, 2277-8616, Refereed SCOPUS/ UGC Listed	2019			Sambalpur University
Efficient Recognition and Analysis of Epileptic Seizure Using Electroencephalogram'', , Vol.10 / Issue 60 / June / 2020	Millee Panigrahi, Radhagobinda Pradhan and Krishna Chandra Patra	Indian Journal of Natural Sciences	2020			Sambalpur University
'Epileptic Seizure Classification of EEG Signals using XG Boost Classifier'',	Millee Panigrahi, Radhagobinda Pradhan and Krishna Chandra Patra	Journal of Xidian University	2020			Sambalpur University

VOLUME 14, ISSUE 5, 2020						
Classification of EEG Recording in an Epileptic Patient Using DWT and Extreme Gradient Boosting Classifier', , Vol. 29, No. 5, (2020), pp. 4163 – 4180	Millee Panigrahi, Radhagobinda Pradhan and Krishna Chandra Patra	International Journal of Advanced Science and Technology	2020			Sambalpur University
Detection of Human Brain Activities in a Normal Human being, Volume-8 Issue-10, August 2019.	Ashima Sindhu Mohanty, Krishna Chandra Patra, Akshya Kumar Sahoo	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019			Sambalpur University

3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	39	189	35	NIL
Presented papers	34	91	10	NIL
Resource Persons	4	93	23	NIL

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	Nil

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
Nil	Nil	Nil	Nil	Nil

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 coordinated in such activities	Number of students participated in such activities
Tree Plantation	NSS Unit Sambalpur University	11	121
Blood Donation	Tyaga, Burla	21	101

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	No. of Students benefited
Nil		Nil	Nil	Nil
3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year				
Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated in such activities	Number of students participated in such activities
Swachh Bharat	NSS Unit, SU	Make the Campus Plastic Free	25	255
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
Collaborative Research work		Prof. P. K. Naik	DST, Govt. Odisha, DBT, Govt. of Odisha, DRDO, DST-SERB	3 years
Paper Published with Prof. Suresh Chandra Patel, Teacher of IIT, Bombay ,		Prof. D.Behera	NA	2019-20
Paper Published with Teacher of Centurian University Dr.K.K.Barik		Dr. J.K. Tripathy	NA	2019-20
Paper Published with Scientist of Birbal Sahni Institute of Palaeosciences, Lucknow Dr. Neha Agrawal, Dr. Anju Saxena, Dr. kamaljeet Singh, Dr.Shaila Chandra		Prof. Shreerup Goswami	NA	2019-20
Paper Published with R R Swain of Geological Survey of India, Odisha State Unit		Prof. Shreerup Goswami	NA	2019-20
Paper Published with Dr. Christopher J. Cleal of Dept. of Natural Sciences, National Museum, Wallace, Cardiff, UK		Prof. Shreerup Goswami	NA	2019-20
Collaborative Research		Dr. Hirka Chakraborty	DST, Govt. of Odisha	2019-2020
Collaborative Research		Dr. Amaresh Mishra	CERI-DST, Govt. of India	2019-2020
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-To)	Participant
Project work	M.Sc. 3rd Semester Project work	PPL, Paradip	21.05.2019 – 21.06.2019	Abhijit Pandu
Project work	Manufacturing process of DAP complex fertilizer & its	PPL, Paradip	21.05.2019 – 21.06.2019	Anandasankar Sahoo

	quality control measure			
Project work	Determination of heavy ends and stain propensity on rolling oil by oven method	Hindalco, Sambalpur	25.05.2019 – 31.07.2019	Arpita Dash
Project work	Percentage of fluorine testing in alumina by different methods	Vedanta Limited ,Jharsuguda	01.06.2019 – 31.07.2019	Bhabana priyadarsini Debata
Project work	Methods of water analysis in demineralisation plant	Nalco,Anugul	01.06.2019 – 31.07.2019	Bindusagar Behera
Project work	Analysis of waste water treatment plant	Hindalco,Sambalpur	01.06.2019 – 31.07.2019	Hutasan Patel
Project work	Analysis of waste water treatment plant and reduction of fluorine from waste water	Hindalco,Sambalpur	23.05.2019 – 22.06.2019	Priyanka Patel
Project work	Determination of lauryl alcohol concentration in lubricant using cold rolling mill	Hindalco,Sambalpur	23.05.2019 – 22.06.2019	Punyapramada Karmi
Project work	Identify the relation between quinoline insoluble viscosity and cv in pitch	Vedanta Limited ,Jharsuguda	21.05.2019 – 21.06.2019	Sangeeta Sahu
Project work	Development of alternate method of carbon analysis in pot bath	Vedanta Limited ,Jharsuguda	21.05.2019 – 21.06.2019	Sasmita Pradhan
Project work	Repeatability and reproductivity study of cp coke	Vedanta Limited ,Jharsuguda	21.05.2019 – 21.06.2019	Snigdharani Thakur
Project work	Determination of oil carryover in aluminium sheet	Hindalco,Sambalpur	01.06.2019 – 31.07.2019	Susmita Gurandi
Project work	M.Sc. 3rd Semester Project work	PPL,Paradip	21.05.2019 – 21.06.2019	Rakesh Roshan Dehury

Project work	M.Sc. 3rd Semester Project work	Hindalco,Sambalpur	01.06.2019 – 31.07.2019	Subham Sahu
Project work	M.Sc. 3rd Semester Project work	Hindalco,Sambalpur	21.05.2019 – 21.06.2019	Chinmayee Mishra
Internship	M.Sc. 4 th Semester Project	MCL IB Valley Brajrajnagar	Jan-2020 to May-2020	Pragnya Parimita Sahoo
		Jharsuguda		
Internship	M.Sc. 4 th Semester Project	NIC Bhubaneswar	Jan-2020 to May-2020	Jyotiranjana Mishra
Internship	M.Sc. 4 th Semester Project	MCL Jagruti Vihar Burla	Jan-2020 to May-2020	Pritish Kumar Sahoo
Internship	M.Sc. 4 th Semester Project	iEaonTech Sambalpur	Jan-2020 to May-2020	Prasant Kumar Meher
Internship	M.Sc. 4 th Semester Project	OSEPA Bhubaneswar	Jan-2020 to May-2020	Asish Kumar Mishra
Internship	M.Sc. 4 th Semester Project	NIC Bhubaneswar	Jan-2020 to May-2020	Ananta Kumar Padhan
Internship	M.Sc. 4 th Semester Project	OSEPA Bhubaneswar	Jan-2020 to May-2020	Rahul Prasad Gupta
Internship	M.Sc. 4 th Semester Project	MCL IB Valley Brajrajnagar, Jharsuguda	Jan-2020 to May-2020	Rani Sahu
Internship	M.Sc. 4 th Semester Project	MCL Jagruti Vihar Burla	Jan-2020 to May-2020	Sandip Baral
Internship	M.Sc. 4 th Semester Project	iEaonTech Sambalpur	Jan-2020 to May-2020	Sanjibani Mishra
Internship	M.Sc. 4 th Semester Project	iEaonTech Sambalpur	Jan-2020 to May-2020	Nitesh Kumar Panda
Internship	M.Sc. 4 th Semester Project	OSEPA Bhubaneswar	Jan-2020 to May-2020	Sivali Subhechha Mishra
Internship	M.Sc. 4 th Semester Project	Integrated Test Range Chandipur	Jan-2020 to May-2020	Smrutipragyan Mahapatra
Internship	M.Sc. 4 th Semester Project	iEaonTech Sambalpur	Jan-2020 to May-2020	Sonalika Tripathy
Internship	M.Sc. 4 th Semester Project	MCL IB Valley Brajrajnagar, Jharsuguda	Jan-2020 to May-2020	Suryakanta Kalsai
Internship	M.Sc. 4 th Semester Project	iEaonTech Sambalpur	Jan-2020 to May-2020	Twinkle Dash

Internship	M.Sc. 4 th Semester Project	Integrated Test Range Chandipur	Jan-2020 to May-2020	Dixita Naik
Internship	M.Sc. 4 th Semester Project	iEaonTech Sambalpur	Jan-2020 to May-2020	Chekuri Neelima
Internship	M.Sc. 4 th Semester Project	MCL Jagruti Vihar Burla	Jan-2020 to May-2020	Akankshya Chand
Internship	M.Sc. 4 th Semester Project	MCL Jagruti Vihar Burla	Jan-2020 to May-2020	Anwesha Yadav
Internship	M.Sc. 4 th Semester Project	MCL Jagruti Vihar Burla	Jan-2020 to May-2020	Swapneswari Sahoo
Internship	M.Sc. 4 th Semester Project	OSEPA Bhubaneswar	Jan-2020 to May-2020	Puja Panigrahi
Training	Lower Gondwana Palynological Training	Birbal Sahni Institute of Palaeosciences, 53 University Road, Lucknow, 226007 (UP)	15.11.2019-28.01.2020	Roshni Patel, JRF
Training	Basic course on Arc GIS and its application for Rock Mineral Targeting	Geological Survey of India, Eastern Region, Bhubaneswar, Odisha	04.11.2019-15.11.2019	Debasis Sahoo, JRF, Debasis Singh, SRF, Anshuman Behera, Research Scholar
PROJECT WORK	M.Sc. 4 th Semester Project	Dr. Dibyakanta Seth, Department of Food Engineering and Technology, Assam	10.01.2019 to 20.04.2019	2
PROJECT WORK	M.Sc. 4 th Semester Project	Dr. B.P Mohanty FREM, ICAR-CIFRI, Barrackpore, Kolkata, 700120	10.01.2019 to 20.04.2019	2
PROJECT WORK	M.Sc. 4 th Semester Project	Dr. P.K. Naik, Department of Food Processing Technology, CIT, Assam	10.01.2019 to 20.04.2019	1
Internship	Graduate Trainee	RMRC, Bhubaneswar		Adyasa Bhoi
Internship	Graduate Trainee	IIT, Gandhinagar		Mukesh Behera
Internship	Graduate Trainee	IGIT, Saramg		Sonam Nayak
Internship	Graduate Trainee	Central University		Pritam Kumar Pati
Internship	Graduate Trainee	IGIT, Sarang		Ronali Bakul
Internship	Graduate Trainee	Central University		Pritam Kumar Pati
Internship	Graduate Trainee	IGIT, Sarang		Ronali Bakul
Internship	Graduate Trainee	IIT, Dhanbad		Sanjay Kumar Rout
Internship	Graduate Trainee	DAIIT, Gandhinagar		Sayed Nilofer Ahmed

Project Work & Research		NDA, Pune & VSSUT, Burla, Sambalpur		Prof. D.P. Ojha
Research	Neutron star & finite nuclei studies	University of Barcelona & University of Madrid, Spain in the field of Nuclear research		Prof. T.R. Routray
Research	collaborative research work	Prof.D.N. Basu, VECC, Kolkata for collaborative research work		Prof. T.R. Routray
Research		NIT, Rourkela		Dr. B. Behera
		CGCRI, Kolkata		
		VSSUT, Burla		
Co-Author in Article	Theta autoregressive neural network model for COVID-19 outbreak predictions	ISI KOLKATA &	2019-2020	Dr. Monalisha Pattnaik;
		University of Louisville; USA		Dr. Tanujit Chakraborty & Arinjita Bhattacharyya
Job training	Gender sensitive orientation	Patang organisation	17.01.2021 to 18.01.2021	02 PG Students (Girls)
Research Guide; Ph.D.	Optimization in Multi-item Supply Chain Models: An Empirical Analysis with Heuristic Approach	North Odisha University; Baripada	2018-2021	Dr. Monalisha Pattnaik (Guide); Dr. Jibendu Kumar Mantri (Guide) and Kailash Chandra Nayak (Scholar)
Internship		CoreBikerZ	July-August, 2020	Tarini Prasad Mohanty
Internship		Netmeds	Oct- Nov, 2019	Shashwat Pandey
Internship		Peacock Solar	Jan-Feb, 2020	Shashwat Pandey
Internship		Kyrion Technologies Pvt. Ltd.	Jan-Feb, 2020	Anchal Prusty
Internship		Alkras Online Services Pvt. Ltd	Jan-Feb, 2020	Tanmay Mohapatra
Internship		Verkossa Business Developers Pvt. Ltd	Jan-Feb, 2020	Tanmay Mohapatra
Internship		TechCiti Technologies Private Limited	April-May, 2020	Soumyak Kumar Bhoi
Internship		Intellify	April-May, 2020	Amit Kumar Naik
Internship		Myknot Services OPC Private Limited	June- July, 2020	Soumyak Kumar Bhoi
Internship		NTPC SIPAT	June- July, 2020	Jay Prakash Biswal
Internship		MCL ,Burla	May-June, 2020	Barsharani Rath, Komalprit Kaur, Annapurna Samal, Lopamudra Biswal, Subhasinee Sahoo, Kuldeep Panda, Arnapurna Samal, Sunnapu Goutam, Sangam Kumar Panda, Soumya Prakash Mishra, Soumya Ranjan sahu, Rohit Rath,

				Niladri Pal, Sourav Kumar Swain, Suman Mishra, Snehasish Mohapatra, Pratyasha Pradhan, Shubham Mohapatra
Internship		TRL Krosaki Refractories Ltd. Beelpahar	May-June, 2020	Sachin Barpanda
Internship		CTTC, Chandaka Industrial Area, BBSR	June-July, 2020	Niladri Pal
Internship		Rourkela Steel Plant	May-June, 2020	Suchismita Mahanta, Kajal Baisakh, Subhranshu Sekhar Sahoo, Sujan Sethi, Nitesh Nayak, Ashok Xalxo, Subasish Mahato, Nishikanta Nayak, Geetanjali Mahanta, Laxmi Minz, Reena Samasi, Getanjali Mahanta
Internship		NIC, Bhubaneswar	May-June, 2020	Deepsikha Ratha
Internship		Nalco , Angul	May-June, 2020	Sasmita Mahanta, Rajeswari Nath, Swatimonalisa patra, Lipsa Chinmayee, Priyagnee Sahoo, Satyajit Pradhan, Pradeep Kumar Sahoo, Subhrajit Behura
Internship		NTPC , Sipat	May-June, 2020	Chitwan Pasari
Internship		HAL , Koraput	May-June, 2020	Ashis Pradhan
				Bhabya Swarup, Debasish Palai, Dipen Patel, Nipun Padhan, Shubhransu Pradhan, Chinmay Ranjan Jena, Rudra Narayan Parida, Ashis Pradhan,
Internship		Kashvi International Pvt.Ltd , Keonjhar	May-June, 2020	Purusottam Giri
Internship		All India Radio & Doordarshan, BBSR	May-June, 2020	Anmol Tripathy, Shruti Sulagna Rath, Smrutipragya Panda, Subhashree Sunanda Das, Sanket Kumar Singh
Internship		TCS, BBSR	May-June, 2020	Smritisrita Samal
Internship		I.B. Thermal Power Station , Jharsuguda	May-June, 2020	Sandeep Kalo
Internship		Hirakud Hydro Electric Project, Burla	May-June, 2020	Apurva Priyadarshy, Ambuj Kishore Malik, Rajat Vats
Internship		ITPS, Jharsuguda	May-June, 2020	Abhijit Kumar Behera
Internship		DRDO , Chandipur	May-June, 2020	Satya Narayan Naik, Manisha Sahoo, Hemangini Sahoo
Project work	M.Sc. 3rd Semester Project work	PPL, Paradip	21.05.2019 – 21.06.2019	Abhijit Pandu
Project Work		LIT Software	Feb-May, 2020	Abakash Khatua,
Project Work		LIT Software	Feb-May, 2020	Pratibha Kumari Khandual
Project Work		Inteface Software, Bhubaneswar	Feb-May, 2020	Krishna Kumari Kar

Project Work		Robosol-for a cause, Mumbai	Feb-May, 2020	Monalisha Nayak
Project Work		TechWorld Solutions,Hyderabad	Feb-May, 2020	Preet Ranjan Panda
Project Work		Instaminds Technologies, Bhubaneswar	Feb-May, 2020	Shibani Ranjita Mishra
				Abhipsa Bhoi
				Sudharani Nanada
Project Work		Quant Technologies	Feb-May, 2020	Biswajit Barik,
				Smrutiprava Mahakud
				Manisha Sahu,
				Snehasini Bai,
				Kajal Baisakh
				Rituparna Biswal
				Suchismita Mahanta

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 and Activities	Number of students/teachers participated under MoUs
Dept. of BT and BI, Sambalpur University signed MoU with School of Pharmaceutical Sciences, SOA University, BBSR, Odisha	12.02.2020	1. Collaborative Research 2. Joint Research Publications, 3. Joint Project 4. Joint Publication 5. Experimentation on animal model	

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
806.92 Lakh	806.92 Lakh

4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added
Campus area	670 Acre	0
Class rooms	75	2
Laboratories	68	0
Seminar Halls	18	0
Classrooms with LCD facilities	0	0
Classrooms with Wi-Fi/ LAN	6	0
Seminar halls with ICT facilities	10	0
Video Centre	0	0
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	96	34
Value of the equipment purchased during the year (Rs. in Lakhs)	357.05	
Others	55.94	85.54

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 partially)		Version		Year of automation				
NA	NA		NA		NA				
4.2.2 Library Services:									
	Existing		Newly added		Total				
	No.	Value	No.	Value	No.	Value			
Text Books	149199	6632458	504	756000	149703	7388458			
Reference Books	47253	2763466	50	75000	47303	2838466			
e-Books	344	2000000	0	0	344	2000000			
Journals									
e-Journals	INFLIBNET, PROQUEST								
Digital Database	3				3				
CD & Video	460				460				
Library automation									
Weeding (Hard & Soft)									
Others (Thesis)	2622				2622				
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				
Nil	Nil		Nil		Nil				
4.3 IT Infrastructure									
4.3.1 Technology Upgradation (overall)									
	Total Computer s	Com puter Labs	Internet	Brows ing Centr es	Computer Centres	Office	Departments	Available band width (MGBPS)	Others
Existi ng	806	540	420	--	--	39	171	1 GBPS	55
Adde d	19	41	45	--	--	04	03	--	19
Total	825	581	465	--	--	43	174	1 GBPS	74
4.3.2 Bandwidth available of internet connection in the Institution (Leased line)									
.....01..... 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				
Nil					Nil				

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
34.39 Lakhs	34.39 Lakhs	13.5 Lakhs	13.5 Lakhs
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)			
<p>USIC has been operating in the university. The objectives of this facility are to provide maintenance service to all the sophisticated instruments housed in various departments, and to fabricate instruments and accessories for research purpose. The facilities as shown in following table are available to the faculty members and research scholars. In addition to this USIC takes care of all the electrical maintenance work of the University which includes office, Department, Hostel and residential quarter. The University has a Development and Maintenance Section and University Scientific Instrumentation Center (USIC) to look after the maintenance of buildings, classrooms and laboratories. The infrastructure facilities and services are maintained by the technical personnel such as Asst. Engineer and Junior Engineer, who work under the supervision of the Development Officer. Networking, computers and accessories are managed and maintained by the E-Governance Nodal Centre under AMC. The AMC vendor is stationed on the campus having two dedicated engineers to resolve technical issues. Internet 1 GB link under NME-ICT/NKN and its services are completely maintained and managed by the expertise of computer centre in-house.</p>			
https://www.suniv.ac.in			
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		10	Rs. 73,200.00
Financial support from other sources			
a) National	Post Matric Scholarship, Medhabruti Scholarship, National Scholarship	800	Rs. 1,74,19,576.00
b) International	NIL	0	0
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
Nil	Nil	Nil	Nil

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 by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2019-20	Civil Service/Competitive Examination Coaching	125	NIL	14	14
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		No. of grievances redressed		Average number of days for grievance redressal	
NIL		NIL		NIL	
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
Capital Via, Techno Instruments, Sheyasri Motors (Royal Enfield), Zenus Group, Surya International, Samasta Micro Fin., Vastu Vihar Bio Tech, B.A.I.F	570	58	Odisha Cements Limited, Axis Bank, ICICI Prudential, TRL Kiroski, Odyssey Motors, OMICS International, Sriram Finance Corporation Limited, Wintron Pvt. Ltd., Ajatus Software, CSM Technologies Svantantara Micro Finance, Tech Mahindra VNR Seeds Innocules Pvt. Ltd., TCS. Avanti Fellows IFFCO Kisan	380	25
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
2019-20	1	MA/ MSc. Anthropology	Department of Anthropology, SU	Department of Anthropology, SU	M.Phil
2019-20	7	M. Sc. BT& BI	Dept. of BT and BI	Sambalpur University, Centra University, Patna, Pondicherry University, Pondicherry	M. Phil, PhD, Project Fellow,JRF

2019-20	13	M.Sc. Chemistry	School of Chemistry	IIT Jodhpur, IISER Bhopal, Shiv Nadar University, IIT Mumbai, Utkal University, NCL Pune, Central Uuniversity, Gujrat, IIT Guwahati, TRL, AIMS College, Sambalpur, TRL, Jharsuguda	Lecturer, Job, Ph.D.
2019-20	1	M.Sc. Computer Science	Computer Science & Applications	Sambalpur University	M.Phil Computer Science
2019-20	7	M.Sc. Earth Sciences	Department of Earth Sciences, SU	Ranchi University, Wadia Institute of Himalayan Geology, Sambalpur University, Ravenshaw University	Ph.D., M.Phil.,
2019-20	8	MA in Economics	P.G. Dept. Of Economics	Viswa Bharati, GM University, Sambalpur University	M.Phil
2019-20	10	M A and MPhil	English	Sambalpur University, GM University	M Phil and PhD
2019-20	3	M.Sc and M.Phil.	Environmental Sciences	SOA University, Sambalpur University	Ph.D., M.Tech.
2019-20	1	M.Sc. Food Science, M.Tech. Food Science and Technology	Department of Food Science and Technology	SAMBALPUR UNIVERSITY	M.Phil.
2019-20	2	MA in Home Science	P.G. Department of Home Science	Ramadevi University, Sambalpur University	M.Phil.
2019-20	5	M.Phil in Law	Department of Law	North Odisha University, Sambalpur University	Ph.D.
2019-20	5	MA in Library and Information Scince	MLIS, SU	DLIS, SU	M.Phil/Ph.D
2019-20	5	M.Sc/MA in Mathematics	Department of Mathematics	Sambalpur University, ITR, Bhubaneswar	M.Phil., Ph.D.
2019-20	2	MA	P.G. Dept. Of Odia	Sambalpur University	M.Phil
2019-20	15	M.Sc. Physics	School of Physics	IITs, NIT, IOP	Ph.D.
2019-20	7	MA in Political Scince	Pol.Sc. and Pub. Admn	Sambalpur University	M.Phil
2019-20	5	MA in Sociology	Sociology	GM University, Sambalpur University	MPhil
2019-20	4	MA/MSc. from Department of Statistics; Sambalpur University	Statistics	Sambalpur University, G.M. University, Kalinga University	MPhil & Ph.D.
2019-20	7	M. Sc/ M.Tech	CSE & A	NIT, Rourkela, NIT, Durgapur, SUIIT, Sambalpur University	M. Phil, Ph.D.

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	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET	100	190510252869, 307000, OR0552000096, OR0952000059,OR0916200025, OR04502213, OR09500873, OR09501464, OR09502977, OR04506414, OR09500810, OR09502624, OR09502420, OR09501461, OR09502650, OR09501153, OR09502424, OR09502031, OR09502647, OR0905200259, OR0905200320, OR0905200236, OR0905200415, OR0405201589, OR0905200400, OR0905201824, OR0905201830, OR0905200310, OR0905200335, OR0905200227,OR0905200363, OR0905200260, OR0405201165, OR04500841,OR09500511, OR09501927, OR09503581, OR08500478, OR09500063, OR0905201301, OR0850900007,OR0951800106, 59003615,OR0905201718, OR0405200875, OR0405200863, OR0405200863, OR09501220, MR16505114, OR09502683, OR09501711, OR08500338, OR09502683, OR09501067,403532,403113,OR09501562,OR09500396, OR0905202593, OR0905202903, OR0905202547, TL0116204335, TL0116205847, OR0851200088, OR0951200184, OR0951200369, OR0905201123, OR0951200131, OR0851200075, OR0905201180, OR045203245,OR0905203050, OR0951900065, OR0951900069,OR0451900156 ,OR0451900014, OR0801500460, TL0116206414, TL0116204335, TL0116205847, TL0116206302, OR0916200284, OR0916200285, OR0916200251, OR0916200619, 106175, 105530, 106037, OR09600424, OR0460327, OR06600105, OR09600236, OR0650600011, 59003386, 59003542, OR09502794, OR0905202730, OR0405206721, OR0905202760, OR0950600068
SET		
SLET		
GATE	31	XL20S36038085, BT20S36042069, BT20S36042087, CS20S66041073, PH20S11407036, PH20S16036030, PH20S16027010, PH20S11407052,CS19S3604632, PH20S16027104, PH20S16024291, PH20S16027010, PH20S11407052, PH20S11407036, PH20S16036030, PH20S16031510, PH20S16042176, PH20S16041167, CY20S26041197, CY20S26041120, CY20S26041056, CY20S26032144, CY20S26032160, CY20S26036018, CY20S26041132, CY20S26042001, CY20S26041184, CY20S23027386, XL21366007269, XL21366007269, XL19S26037207
GMAT		
CAT		
GRE		
TOFEL		
Civil Services		
State Government Services	11	100715,100007,500000, HE-NCET-1-MISC-00082019 27104/HE
Any Other	3	P0800988, P0800404, P0800306
5.2.4 Sports and cultural activities / competitions organised at the institution level during the year		
Activity	Level	Participants
Sports	University Level	44
Sports	National level	10
Cultural Events	University Level	107
Cultural Events	National Level	10

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/ International	Sports	Cultural	Student ID number	Name of the student
2018-19	NIL					
5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution						
<p>Before 2018-19, the University has a Student's Union comprising the President, Vice-President, General Secretary and other functionaries. But as per the notification issued by Higher Education, Student Union of all the State Universities and Degree Colleges have been cancelled and advised to carry out nomination system for students' representatives to various bodies of the university. The University Senate has two student members, who are nominated from among the students on the basis of their academic merit. There are students members in Residence allotment Committee, Anti-ragging Committee and various Discipline Committees formed by the functionaries and boarders of the hostels. All these bodies go a long way to teach the students to participate in various democratic bodies in a responsible and disciplined manner. They learn to shoulder responsibilities and perform duties for the good of the entire academic community.</p>						
5.3 Alumni Engagement						
5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):						
No						
5.3.2 No. of registered Alumni:						
NA						
5.3.3 Alumni contribution during the year (in Rupees) :						
NA						
5.3.4 Meetings/activities organized by Alumni Association :						
NA						
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						
<p>The Sambalpur University functions in a well-structured and defined manner to ensure participatory management, with the Post Graduate Departments, Institutes and Colleges functioning under the control of the Vice Chancellor of the University. Heads of the P.G. Departments and Principal of respective colleges runs their respective institutions within the framework of participatory decision making. The University administrative power structure has been decentralized through the executive and advisory roles of three Deans of faculties, namely the Deans of Sciences, Humanities and Social Sciences and Management. There is a clear guideline for the Vice-Chancellor to act in his/her administrative capacity as per the provisions of Odisha University Act and Statutes 1990. The following responsibilities are devolved upon Vice-Chancellor through statutory committees of Odisha University Act and Statutes:</p> <ol style="list-style-type: none"> 1. Promotion Committee 2. Students' Residence and Welfare Committee 3. Finance Committee 4. Equivalence Committee 5. Statutes Committee 6. Library Committee. 7. Building Committee 8. Purchase and Sales Committee 9. Discipline Committee 10. Admission Committee 11. Academic Calendar Committee 12. Sports Committee 						

Besides, the Following Non Statutory Committees also Facilitate Academic Administration

1. IQAC
2. Grievance Cell
3. Gender Sensitization Cell
4. Anti-Ragging Committee
5. NSS Committee

Academic Administration Academic decisions pertaining to introduction, revision and reformulation of courses and syllabi are taken through 'Academic Council' after obtaining inputs from faculties and departments concerned. The composition of the Academic Council also reflects the participatory nature of the academics of the University. Departmental Council, Board of Courses & Studies, Departmental Research Committee function in a coordinated manner to take decisions with respect to academic and research related issues at the department level. The case of syllabus revision undertaken time to time to exemplifies the effort to keep pace with the latest developments in academic disciplines. The syllabi designed by the Departmental Councils and Board of Studies from time to time have been approved by the Academic Council, with the ratification by the Hon'ble Chancellor of the Universities of Odisha.

Participative Management: Stakeholders such as teachers, officers of the University, and Govt. agencies through nominees of State Govt. facilitate participatory management. In some cases, the leading industrialists and industry professionals are co-opted as members of bodies that deal with industry-academia interface. All functionaries operate at various policy making and executive bodies on rotation basis as approved by the Hon'ble Chancellor. The University has built up rapport with the public and ensure its credibility as well as transparency by bringing out News-letter and Annual Reports. All important information about the University is made available at the University website and other social media platforms. Decentralization and participatory management have remained the guiding principle of this university in pursuit of transparency, credibility and academic excellence.

6.1.2 Does the institution have a Management Information System (MIS)? Yes/No/Partial:

No

6.2 Strategy Development and Deployment

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

Curriculum Development:

Sambalpur University has put emphasis on flexible and choice-based courses. University has introduced Credit based Grade Point Scaling. Credit and grades are assigned to students on a 10-point scale. The Boards of Studies meet once in a year to review and update the course curriculum. The curriculum is updated at least in every two to three years based on the advancement of knowledge and job requirement. Academic Council meetings are held every year for reviewing academic standards of existing programmes, and introduction of new courses on recommendation of the Board of Studies.

Teaching and Learning

The Chairman, P.G. Council, with the help of a committee, prepares an academic calendar for each academic session (June-May), which contains dates for admission, commencement and closing dates of various teaching programmes, official holidays, schedule of examinations, publication of results) etc. The Departments enjoying academic autonomy work out their own teaching and examination schedule within the framework of the centralized academic calendar prepared by the P.G. Council. Lesson-planning is left to the course teachers in the Departments, and from time to time the Heads of the Departments review progress of the teaching of courses.

Examination and Evaluation

The University conducts central valuation for all undergraduate courses to ensure timely publication of results. The Postgraduate examinations have been decentralized, since most Departments have been autonomous in order to conduct and evaluate examinations within the framework of a set of regulations. Continuous assessment is ensured by provisions like seminars, home assignments, projects, internal tests, which precede the end-terms tests. In the M. Phil programme, group discussion, review of research proposal, midterm appraisal presentation, regular seminar presentation etc. are conducted for the students before they sit for the end-term examinations and start writing their dissertations.

Research and Development

Sambalpur University has clearly laid down the guidelines for M.Phil, PhD, DSc/D.Litt. as per UGC regulations. The University has formed Sponsored Research and Industrial Consultancy (SRIC) Cell with functions such as facilitating research activities, processing of files for submission of R&D proposals, release of grants and implementation of the projects, doing liaison between investigators and various funding agencies, including industries, processing appointment of research scholars. The HRDC of the University has been orienting and training

the college teachers to undertake research projects. The University is promoting and encouraging the PG Departments to pursue National/International collaborations with the scientists and academicians.

Library, ICT and Physical Infrastructure / Instrumentation

Prof. B. Behera Central Library has got large no of collections of books, E-Databases, E-Journals, E-Books etc to cater the requirement of faculties and students. The library has been computerizing its books phase wise using the Library Automation Software. All the teaching Departments, administrative Departments, Central Library, residential quarters, hostels etc have LAN connectivity through fibre optics and UTP cable. University Scientific Instrumentation Centre (USIC) has been operating in the university in order to provide maintenance service to all the sophisticated instruments housed in various departments. University is planning to establish a Central Instrumentation Facility to facilitate use of major equipment/ infrastructure for promotion of research.

Human Resource Management

The University insists on recruiting faculty as per UGC norms and makes all efforts to improve their academic standards in respect of teaching and research. Academic audit, internal quality assurance and evaluation of the teachers by the students are measures adopted by the University. Offering of incentives to achievers and performers, and also a word of caution to the non-performers are some strategies to enhance teaching standards. The HRDC conducts Refresher Courses, Orientation Courses and other such training programmes annually to update the knowledge of faculties. University follows Government of Odisha norms for recruiting Non-teaching staff.

Industry Interaction / Collaboration

The Sponsored Research and Industrial Consultancy Cell of university coordinates the industry-academia relationship and helps to promote collaborative research as well as consultancy works. The Department of Environmental Sciences and School of Life Sciences have been actively collaborating with the industries such as Vedanta Aluminium Ltd., HINDALCO, Mahanadi Coal Fields Ltd., Jindal Steel and Power Ltd, Bhushan Power & Steel Ltd. and MESCO Steel Ltd. in various fields of environment research. University is taking steps to keep representatives from industries in various Boards of Studies while designing the courses of studies also inviting managers from industries for delivering talks on entrepreneurial development, resource management.

Admission of Students

Sambalpur University adopts the three criteria of merit (career), entrance test and interview to finalize students' admission to various PG, M. Phil and PhD. programmes. The University strictly adheres to the reservation quota fixed by the Government of Odisha for ST and SC students. One seat in each Department (both at the P.G and M. Phil level combined together) is reserved for physical disabilities candidates. Students having achieved distinction in the inter-university, state and national level sports, or children of ex-defence personnel etc. and students having participated in NCC/NSS enjoy the 5% and 3% benefit addition in the aggregate marks obtained by them.

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

Under process

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
	NIL			

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	Dates (from-to)	No. of participants (Teaching staff)	No. of participa nts (Non- teaching staff)
2020	National Seminar on Changing Landscape of Libraries in Digital Age		06.02.2020 to 07.02.2020	120	

2020	Workshop on Library Automation with E-Granthalaya Software	Workshop on Library Automation with E-Granthalaya Software	07.02.2020	15	80
2020	National Seminar on Changing Landscape of Libraries in Digital Age		06.02.2020 to 07.02.2020	120	

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	Date and Duration (from – to)
Hands-on Flow Cytometry Data Analysis Workshop organized by Cytometry Solutions Pvt. Ltd. Kolkata	1	03.08.2019 to 07.08.2019
Refresher course in “Soft skills for professional Excellence, UGC-HRDC, Osmania University, Hyderabad	1	17.10.2019 to 30.10.2019
Research Methodology in Basic Science	1	19.08.2019 to 01.09.2019
39 th Orientation Programme	2	07.09.2019 to 27.09.2019
ARPIT Refresher course in Library & Information Science (SWAYAM) Platform Emerging Trends & Technologies in Library & Information Services (16 weeks; from 01 Sept 2019 to 31 Dec 2019) organised by IIT, Delhi	1	01.09.2019 to 31.12.2019
ARPIT Inter-Disciplinary Refresher Course(SWAYAM Platform): Refresher Course on Teacher and Teaching in Higher Education (16 weeks; from 01 Sept 2019 to 31 Dec 2019)organised by Savitribai Phule Pune University, Pune	1	01.09.2019 to 31.12.2019
Refresher Course in Advance Application in Physics	4	04.03.2020 to 18.03.2020
Faculty Development Programme on Machine Learning and Applications, Sagar Institute of Research and Technology, Bhopal	1	18.05.2020 to 23.05.2020

6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime
0	15	01	09

6.3.5 Welfare schemes for

Teaching	Medical Reimbursement, Free clinical & pathological checking, dispensary facility by Health Centre, GIS/GPF/CPF/Group Insurance, Day care centre for infants, Subsidized Transportation
Non teaching	Employee Welfare Fund, Medical Reimbursement, Free clinical & pathological checking, dispensary facility by Health Centre, Rehabilitation Scheme, GIS/GPF/CPF/Group Insurance, Day care centre for infants, Subsidized Transportation
Students	Free clinical & pathological checking, dispensary facility by Health Centre

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

The University has an efficient mechanism of internal and external audit of all auditable accounts/expenditures, according to the Odisha University Accounts Manual (OUAM) and the UGC audit guidelines.

Internal Audit

Internal Audit is conducted by the internal auditors of the Audit Section of the University before finalization of payment of any expenditure. Generally, expenditures worth Rs 15,000 and above are subjected to Pre-Audit, according to the rules of the Department of Finance, Government of Odisha.

External Audit				
The accounts of the University are subjected to the Local Funds Audit (LFA of the Department of Finance, Government of Odisha as per the statutory provisions) and Accountant General, Govt. of Odisha. The University also gets its accounts audited by external agencies like Chartered Accountants as per the guidelines of central funding agencies like the UGC, DST-FIST and others, whenever necessary.				
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/ Grants received in Rs.	Purpose
NIL			NIL	NA
6.4.2 Total corpus fund generated: Nil				
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	No		Yes	IQAC
Administrative	Yes	Local Fund Audit	Yes	University
6.5.2 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)				
The University encourages various affiliated colleges to be academic leaders themselves and create the enabling conditions for the purpose by way not only encouraging and nurturing them to reach standards of academic excellence but also monitoring their quality of teaching and academic administration. To achieve these goals the following organizational components are: <ul style="list-style-type: none">• The College Development Council (CDC) that acts as the nodal agency, coordinating all academic affairs of the colleges like grating/renewing affiliations to colleges, recommending introduction of new courses, fixing the number of seats for subjects, recommending increase thereof, if any, advising the colleges to follow specific lines of the development of infrastructure and capacity building, vetting and endorsing minor projects proposal etc.• The CDC also scrutinizes and recommends proposals for autonomy mooted by the colleges and sends them to the UGC.• The Human Resource Development Centre (HRDC), while running Refresher Courses and Orientation Courses, underlines administrative capacity building of the college teachers in addition to enriching them academically. Classes on academic administration are also an integral feature of the Refresher Courses and Orientation Courses.				
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)				
<ul style="list-style-type: none">• The E-Governance Cell has done an admirable job of attending to the specific problems faced by the officials at their desks as and when its services are required.• The University has made special provision for in-house training to its non-teaching employees in respect of handling cases under RTI.• The University has also facilitated training to the non-teaching employees in the rules of the new pension system as given by the Department of Finance, Govt. of Odisha.• The training on basic skills in Computer application has been imparted to the ministerial staffs.				
6.5.5 Post Accreditation initiative(s) (mention at least three)				
1. Strengthening of IQAC for quality enhancement Sambalpur University has strengthened the functioning of IQAC by holding regular meetings. Now IQAC constitutes members from Industries, local bodies, students and alumni. IQAC evaluates the student feedback form and provide suggestion to the ViceChancellor and respective Head of the Departments for possible improvement in Teaching-Learning Process. IQAC also conducts Academic Audit in regular interval. 2. Strengthening Placement Cell activities University has recruited a full time Placement Officer in the present evaluation period. The on-campus recruitment process has gained momentum under the aegis of the Placement Cell.				

3. Programmes to improve soft and life skills of students University entered into a Memorandum of Understanding with the Odisha State Open University to offer courses on soft-skill in the PG curriculum.				
6.5.6 a. Submission of Data for AISHE portal : Yes b. Participation in NIRF : Yes				
6.5.7 Number of Quality Initiatives undertaken during the year				
Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to----- -)	Number of participants
2019	Awareness Programme on Revised Accreditation Framework (RAF) of National Assessment and Accreditation Council (NAAC)	25/09/2019	25/09/2019 to 25/09/2019	136
2019	Awareness Programme on Revised Accreditation Framework (RAF) of National Assessment and Accreditation Council (NAAC)	26/09/2019	26/09/2019 to 26/09/2019	140
2020	Workshop-cum-Training Programme on Turnitin: Anti-Plagiarism Software	06/02/2020	06/02/2020 to 06/02/2020	110
2020	Online Lecture Series on Productive Engagement of University Teachers and Research Scholars during COVID-19 Lockdown	28/05/2020	28/05/2020 to 08/06/2020	200

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

Title of the programme	Period (from-to)	Participants	
		Female	Male
Nil	Nil		

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 University installed 245 KW solar panels and 23 mini-mast LED street lights in the campus. 15 Percentage of power requirement of the University met by the renewable energy sources

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	No	
Provision for lift	No	
Ramp/ Rails	No	

Braille Software/facilities	No	
Rest Rooms	No	
Scribes for examination	No	
Special skill development for differently abled students	No	
Any other similar facility	No	

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
	Nil	Nil	Nil	Nil	Nil	Nil

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)
Nil	Nil	Nil

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-----to-----)	Number of participants
Nil	Nil	Nil

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

- Energy conservation and use of renewable energy: The University installed 245 KW solar panels and 23 mini-mast LED street lights in the campus.
- Water harvesting & Water Management: NSS Bureau of the University sensitises the affiliated colleges for water harvesting and its proper management through their NSS Units.
- Check dam construction
- Efforts for Carbon neutrality
- Plantation: The University organises massive plantation drive through its NSS units.
- Hazardous waste management
- E-waste and obsolete equipment management

7.2 Best Practices

Describe at least two institutional best practices

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

Weblink: <http://www.suniv.ac.in>

BEST PRACTICE- 1: Award of the “Gangadhar National Award for Poetry” to the poets of all-India stature.

Objectives of the Practice: Sambalpur University believes that promotion of art and culture is as important as the production of theoretical and applied knowledge in the pursuit of its humanist mission.

Holistic and comprehensive development of human society is the ultimate goal of higher education, to achieve which the University has made continuous endeavour by encouraging and felicitating poets not merely of the region but also of the nation as a whole. Sambalpur University has been honouring distinguished poets of national stature with the Gangadhar National Award for their works in English and other Indian languages.

The Context: In pursuance of its vision and mission, which have been to integrate the local cultural resources with the national and global systems, Sambalpur University has been celebrating the cultural ethos of western Odisha by projecting at the national level one of the greatest poets of Odisha, Swabhaba Kabi Gangadhar Meher, the cultural icon of the region. The University pays Meher tributes annually by way of honouring the Indian poets of national eminence with the “Gangadhar National Award for Poetry”. In the year 1991, while celebrating the Silver Jubilee of its Foundation, Sambalpur University instituted the award. The first recipient of this coveted prize was Ali Sardar Jafri. Since then poets writing in various Indian languages have been honoured with this prize. While receiving the awards they have the opportunity to be familiar with the poetry of Meher in English translation, a task that has been accomplished by the English Department of the University.

The Practice Uniqueness: Sambalpur University claims the uniqueness of being the only institution of higher education in the entire country that has instituted a national award for poetry like the Gangadhar Meher National Award.

Details of Nomination and the Prize: The process of selecting a poet of all Indian stature is elaborate and time taking, and it involves short-listing of names of potential awardees at various stages. The Council of Jurors comprising the Vice Chancellor, recipients of the Central Sahitya Akademi Awards for Poetry in major Indian languages (Other than Oriya), previous awardees of Gangadhar National Award for Poetry, twenty other members (including three reputed teachers of literature and literary critics of Odisha are nominated by the Vice-Chancellor) nominate names of the poets for the award. The names are processed and scrutinized through a preliminary and a final round of selection by a duly constituted Processing Committee, resulting in the finalization of the name of the poet carrying highest number of nominations for the “Gangadhar National Award”. The award carries a cash prize of Rs 50,000, angavastra, citation, a memento and a copy of Gangadhar Meher: Selected Works (An anthology of Gangadhar Meher’s Poetry in English translation). The Gangadhar National Award ceremony is held as part of the celebration of the Foundation Day of Sambalpur University in the first week of January every year. A huge audience of faculties, students, distinguished invitees, prominent literati, citizens of western Odisha, and the media witnesses the award-giving ceremony, and listens to the citation being read out as the award is given to the recipient. The recipient then delivers the award acceptance speech.

BEST PRACTICE- 2: “Manuscript Conservation Programme” (Under the National Mission for Manuscripts (NMM), Ministry of Culture and Tourism, Govt. of India).

Objectives of the Practices: Conservation of Manuscripts Programme is one of the most important archival activities under National Mission for Manuscript, with which the Department of History of Sambalpur University has been engaged. In view of the fact that manuscripts document different aspects of Odisha pre-modern socio-cultural life, folklore and indigenous systems of knowledge, the said programme has been run by the Manuscript Conservation Centre(MCC) of the Department of History,

Sambalpur University, since 2004, with the funding of NMM of Ministry of Culture and Tourism, Govt. of India. It has received an amount of Rs.25 lakhs @ Rs. 5 lakhs per annum for the purpose. The MCC has been pursuing the objectives like 1. To conduct curative conservation of manuscripts in the Department of History, 2. To impart training to students and researchers in the conservation of manuscripts, 3. To arrange workshop on preventive conservation, 4. To organise campaigns for spreading awareness amongst the public of the importance of manuscript conservation, 5. To network with repositories and labs engaged in conservation work and to introduce emerging and appropriate techniques in the field of manuscript conservation.

The Context: Palm-leaf manuscripts have been a source of various cultural and knowledge systems of India since time immemorial. These have been instrumental in the continuance of the indigenous intellectual, cultural and aesthetic traditions through generations. At times these invaluable manuscripts have also served as transcriptions of a vibrant oral culture, pregnant with cultural and intellectual riches. The problem with the palm-leaf manuscripts is that these can survive the ravages of time up to a maximum of 350 to 400 years in the tropical climate. Unless conserved, these are likely to be destroyed and become unusable. A vast amount of the manuscripts, due to lack of care, are now brittle and unusable, and therefore practically lost to the knowledge-seekers. In many cases the manuscripts are considered sacred objects to be only worshipped, not to be scientifically conserved and deciphered as intellectual resources. Against the above background that NMM has endeavored to retrieve and archive the palm-leaf manuscripts, and Sambalpur University has been running the MCC at the local level to save the heritage of the local resources of culture and knowledge from extinction.

The Practice: India has the biggest manuscript reserve in the world. Unlike the western countries, manuscripts in India are

scattered not only in institutional repositories but also in private collections, temples, monasteries, libraries and private households. National Mission for Manuscripts (NMM) was established by Dept. of Culture, Ministry of Tourism and Culture, Govt. of India, through a gazette notification in 2003, and it came into existence on the 7th of February 2003. Since then NMM has been engaged in the documentation, conservation, digitization, publication and dissemination of manuscripts. It pursues the goals of identifying, preserving, conserving and making accessible to researchers and antiquarians the scriptural heritage of the country, creating awareness about manuscripts among scholars and the public at large, publishing unpublished manuscripts and building a National Manuscript Library. It is a national level unified initiative which strives to conserve and disseminate the manuscripts available across the length and breadth of the country. Since its inception NMM has been working at multiple levels and has been involved in diverse activities. It has under its jurisdiction more than 50 centres (MRCs) and also 50 MCCs throughout the country that are engaged in the survey and post survey activities for the purpose. The MCC at the Department of History, Sambalpur University is one of them. Information about the manuscripts collected through survey and post survey activities, conservation projects, awareness campaigns, preventive measures-related workshops and curative workshops are conducted by the MCC. The uniqueness of the MCC at Sambalpur University is that it is the only institution operating in a university in Odisha. Evidence of Success Since its inception the Manuscript Conservation Centre at the P.G. Department of History has been engaged in identifying, preserving, conserving and creating awareness about manuscript among scholars and public at large. ? It has already organized 09 awareness camps in different parts of western Odisha regarding the importance of manuscript preservation. It has four nos. of technically trained persons engaged for preventive and curative works, and they have completed 891830 preventive works and 25480 curative works of palm-leaf manuscripts. The MCC has also 07 nos. of MCPC (Manuscripts Conservation Partner Centres) in different areas for the extension works. It has also a conservation laboratory. The above measures have produced the combined effects of the spread of awareness of the importance of cultural antiquities, building up of conservation capacity through the creation of skilled personnel, and above all the promotion of historical consciousness among the populace at large.

7.3 Institutional Distinctiveness

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

Sambalpur University has all along cherished the vision of harnessing the needs of the region it inhabits to the trends of knowledge globally produced in several fields. The western part of Odisha, in which this University is located, is rural, agro-based, tribal dominated and relatively underdeveloped. Hence the professed goals of the University have been to bring about development of the region within an equitable social framework. In the ultimate sense the goals are humanistic as these seek to improve the intellectual and moral standards of humankind and bring panacea to human suffering. The Vision and Mission statements of the University spell out harnessing of the local resources to the larger needs of the nation in the framework of global knowledge system, and nurturing the local resource base and knowledge capital. The University is making a sincere endeavour to pursue excellence in teaching and research to translate the vision into reality and accomplish the mission. From time to time the University takes stock of its activities, reviews its functioning and prepares vision documents, with prospective road-maps for undertaking various activities, prudent management of finances, building up infrastructures in key areas and strengthening the human resource base. Adopting a system of e-governance and developing mechanisms for the decentralization of power, ensuring accountability, and periodic reviewing of administrative functioning are also strategies of the University in pursuance of its vision. Sambalpur University has been striving for excellence by maximizing its research outputs as well as ensuring the quality of research. Side by side, it has created an atmosphere on the campus, which is least distracting to the students and very conducive to learning. As is well known, the three 'M's: Men/Women, Materials and Methods in all pedagogic programmes are needed for quality assurance. Recruitment of qualified teachers, well-thought syllabuses and effective teaching have combined to help this institution move towards the goals of excellence. All-pronged efforts have been made to ensure the strides towards goal of excellence. University is actively participating in community service through N.S.S. programmes and also offering consultancy on local projects relating to biodiversity, waste management, organic manure development, carbon sequestration and EIA. Students of university have formed a voluntary service organization called '*Sanskara Kendra*' under the auspices of which they are in teaching children of the nearby villages. Extension lectures in the nearby schools by University teachers on popular and contemporary topics like Global Warming, Climate Change, and Gender Equity etc. The faculties of Sambalpur University have undertaken research in various laboratories of the universities outside India, and have made the University internationally known through their works. Many s faculties and scholars have been collaborating with their counterparts from foreign universities in various fields of research.

<http://www.suniv.ac.in>

8. Future Plans of action for next academic year

- Accumulation and synthesis of quality parameters from different stakeholders of the university in order to participate in the ranking framework of institutions.
- Restricting of the PG curriculum to make the students more competent and employable.
- Timely completion of the academic session according to the academic calendar.
- To collaborate and sign MOUs with reputed National and International Institutions/organizations
- To enhance and upgrade the resources of laboratory facilities for creating an advanced research environment.
- To organize sensitization programmes to motivate faculties to apply for extramural research findings from various funding agencies.
- Augmentation of the physical stock and e-resources of Central library.
- Complete automation of the Central Library.
- Organization of workshop on research methodology and research ethics for the M.Phil. and Ph.D. students at regular intervals.
- To initiate Non-Credit Courses in collaboration with Odisha State Open University to inculcate soft skills among the students for the enhancement of employability.
- Suggested installing fire extinguishers in the departments, administrative buildings, and hostels.
- Proposed to publish a book to showcase the cultural heritage of Western Odisha.
- Organization of National and International Seminar/ Workshops/ Conferences in the PG Departments.
- SU plans to increase ICT enables teaching atmosphere and use of the e-content materials developed by MOOCs and SWAYAM to provide the best teaching during the COVID-19 pandemic.
- Enhancement of the quality and quantity of research publications in National and International Journals.
- Plantation of trees in the University campus
- Strengthening the Alumni database and their contribution at the departmental level.
- Filling of academic and non-academic vacant posts.
- Strengthening University-Industry Partnership Programme and contributing to the process of transforming inventions to innovations.
- University plans to organize workshop on Outcome Based Education System. This will be helpful to prepare the departments toward adopting Outcome Based Education in the University.

Signature:

Behera
21/8/21

Name: Prof. Pradipta Kumar Behera
Coordinator, IQAC, Sambalpur University

Signature

21/08/2021

Name: Prof. Sanjiv Mittal
Chairperson, IQAC, Sambalpur University