

*Annual Quality Assurance Report
for the Period
1st June 2018 to 31st May 2019*



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
(Tick appropriate)
 - **Type of Institution: Co-education/Men/Women** : Co-education
 - **Location : Rural/Semi-urban/Urban** : Semi-Urban

- **Financial Status: Centrally funded/state funded/Private : State**
(please specify)
- **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 : www.suniv.ac.in

Web-link of the AQAR (previous aca. year) : [https://www.suniv.ac.in/IQAC/AQAR\(2017--18\).pdf](https://www.suniv.ac.in/IQAC/AQAR(2017--18).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: <https://www.suniv.ac.in/docs/academic-calendar-18-19.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
One Day Seminar on Emerging Trends in Quality Education and Research in University	17/08/2018 (01 day)	60
One Day Seminar on Emerging Trends in Quality Education and Research in University	08/09/2018 (01 day)	78

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
Chemistry	DRS	UGC	2013	5 Yrs
Economics	DRS	UGC	2014	5 Yrs
Chemistry	FIST	DST	2013	5 Yrs
Physics	FIST	DST	2013	5 Yrs
Biotechnology and Bioinformatics	FIST	DST	2018	5 Yrs

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?

No

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

- The IQAC conducted an academic performance audit of each Department/ School for the year 2018-19.
- IQAC recommended the university to host the Central Zone Youth Festival which is conducted by the Association of Indian Universities (AIU), New Delhi. A programme of this kind is essential as Western Odisha has a rich cultural heritage.
- IQAC proposed harnessing solar energy to reduce environmental degradation and maintain energy sustainability. University has a huge potential for solar energy because of its locational advantage.
- IQAC advised the introduction of the University Anthem to create a sense of belongingness and harmony among students, teachers, staff, and other stakeholders.
- IQAC advised to apply for funding from World Bank sponsored OHEPPE project of Government of Odisha.

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"> • Street Lights and LED to reduce electrical consumption and to be more environment-friendly. • Repair of staff quarters and different buildings on the campus. • Procurement of equipment for Ladies Gym • Functioning of SC/ST/OBC Student Hostel (200 seated). • Timely completion of the academic session according to the academic calendar. • Augmentation of the stock of Central library. • Generation of funds for research. • Strengthen the Alumni Associations of the Departments and the University. • Upgradation of existing research laboratories and construction of new laboratories. • Organization of National and International Seminar/ Workshops/ Conferences in the PG Departments. • Series of computer training programmes to be conducted for students and teachers of SU. • To train and encourage the faculties to apply to different funding agencies for projects/funds. • To bring M.Phil. Course under common academic session. • To encourage the faculty to register themselves in Google scholar and other research portals • Conduct of Induction and Orientation Programme both at Departmental and University levels. • Construction of University Sports Complex 	<ul style="list-style-type: none"> • University initiated an interdisciplinary research project on 'River Mahanadi' from its own fund as suggested by the NAAC peer team in their last visit. • New M.Sc. course in Home Science (Food and Nutrition) has been started. • Street Lights and LEDs have been installed. This cost-effective green energy is a step towards economized consumption of electricity. • Repair and renovation of staff quarters • Equipment for Ladies Gym has been procured. • Constructions of four labs in different departments have started. • Three of our students represented the Indian National hockey team and one in Taekwondo • Series of computer training programmes conducted for students and teachers of SU. • Civil Service Coaching conducted by the University. • The SC/ST/OBC Student Hostel has become functional. • University enhanced the student intake capacity of the departments to increase the Gross Enrolment Ratio (GER) of the university. • The Faculty members applied for research projects to various funding agencies to generate resources for research. • UGC unassigned grants were released to several departments to conduct interdisciplinary Seminars/ Workshops/ Conferences. Several departments organized National and International Level programmes under the scheme. • University continued the timely distribution of certificates. • Orientation on Research Methodology was conducted for M.Phil. and Ph.D. students of the university.

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: 2018-19 **Date of Submission:** 20/03/2019

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	
MBA(Agri-Business)	MBA(ABM)	27.02.2019	
M.Sc. Biotechnology	MSBT	12. 04. 2018	
M.Phil. Biotechnology	MPBT	12. 04. 2018	
M.Sc. Bioinformatics	MSBI	12. 04. 2018	
MA Economics	MAECO	19.04.2018	
Integrated B.Ed-M.Ed	BEDMED	Introduced in 2018-2019	
MA English	MAENG	29.03.2018	
Master in Performing Arts	MPA	04.03.2018	
Ph.D. Food Science & Tech.	PDFST	20.03.2018	
M.Tech Food Science & Technology	MTFST	20.03.2018	
M.Sc Food Science	MSFS	20.03.2018	
M.Sc Food Science & Nutrition	MSFSN	20.03.2018	
MA History	MAHIST	2018	
M.Phil. History	MPHIST	2018	
P.G. HOME SCIENCE	MAHS	2018-19	
M.Phil. HOME SCIENCE	MPHS	2018-19	
MA/MSc Mathematics	MSMATH	20.03.2018	
Master in Business Administration	MBA	27.02.2019	
M.Sc. Physics	MSPHY	24.04.2018	
MA Political Science	MAPS	18.03.2018	
M.Phil Political Science	MLPS	18.03.2018	
M.Phil Public Administration	MLPA	18.03.2018	
Masrer of Social Work	MASW	2017-2018	
M.Phil in Social Work	MPSW	Introduced in 2018-2019	
MA Sociology	MASOC	24.04.2018	
B. Tech ECE	SBTECE	20-03-2019	
M. Tech CSY	SMTCSY	20-03-2019	
M. Tech ESD	mpa	20-03-2019	
B-TECH (EEE)	SBTEEE	27.05.2019	
B. Tech CSE	SBTCSE	20-03-2019	
M. Tech CSE	SMTCSE	20-03-2019	
MCA	SMCA	20-03-2019	
M. Sc CS	SMSCCS	20-03-2019	
M.Sc. Electronics	SMSCSEL	27.05.2019	
M. Phil CS	SMPCS	20-03-2019	
PhD CSE	SPHCS	20-03-2019	
M.Tech in Environmental Science & Engineering	MTENVE	Jul-18	
M.Sc. in Environmental Science	MSENV	Jul-18	
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 Anthropology (MAATH)	1991	AN.C-414, AN.C-424	1991
M.Phil Anthropology (MPATH)	1991	614	2010
M.Sc. Biotechnology (MSBT)	2002	Industrial Biotechnology (BT-	12. 04. 2018

		426)	
M.Sc. Biotechnology (MSBT)	2002	Cell Culture Techniques (BT-534)	12. 04. 2018
M.Sc. Biotechnology (MSBT)	2002	Pharmaceutical Biotechnology (BT-536D)	12. 04. 2018
M.Sc. Bioinformatics (MSBI)	2006	Molecular Modelling and Simulations (BI-533)	12. 04. 2018
M.Sc. Bioinformatics (MSBI)	2002	Data warehouse and Data Mining (BI-535)	12. 04. 2018
M.Sc. Bioinformatics (MSBI)	2002	Computer Added Drug Design (BI-536)	12. 04. 2018
M.Sc. Bioinformatics (MSBI)	2002	NGS and Microarray Data Analysis (BI-543C)	12. 04. 2018
MA English (MAENG)	2007	ENG 433	2007
MA HINDI (MAHIN)	2010	PG HNC	2010
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
MA in Library & Information Sciences (MLIS)	1985	MLIS-426 Digital Library and Information Systems	01.08.2017
MA in Library & Information Sciences (MLIS)	1985	MLIS-430-A: Electronic Resource Management	01.08.2017
MA in Library & Information Sciences (MLIS)	1985	MLIS-430-B: Marketing of Information and Knowledge Management	01.08.2017
M.Sc. Microbiology (MSMB)	23.02.2017	MMB	23.02.2017
MBA	2018-19	MBA	2018-19
MPA	June,2010	MPA(Dance & Drama)	June,2010
MA in Political Science (MAPS)		Human Rights	18.03.2018
MSW	2007	MSW-415 B	2012-2013
M.Sc. Physics (MSPHY)	1969	PHY 414, PHY 416, PHY 425	2018
M.Phil. Physics (PMPHY)	1980	PHY 614	2018
Ph.D. Physics (PDPHY)	1984	PHY 614	2018
Integrated B.Ed-M.Ed. (BEDMED)	2018-2019	BEDMED	2018-19
B-TECH (SBTEEE)		Electrical Machine-I (EEE202)	16-07-2017
B-TECH (SBTEEE)		Network Analysis and Synthesis (EEE201)	16-07-2017
B-TECH (SBTEEE)		Electrical Machine-II (EEE205)	16-07-2017
B-TECH (SBTEEE)		Power Station Engineering (EEE301)	16-07-2017
B-TECH (SBTEEE)		Control System Engineering-I (EEE302)	16-07-2017
B-TECH (SBTEEE)		Power Electronics (EEE303)	16-07-2017
B-TECH (SBTEEE)		Electrical Power	16-07-2017

		Transmission and Distribution Systems (EEE306)	
B-TECH (SBTEEE)		Electrical and Electronic Measurements (EEE307)	16-07-2017
B-TECH (SBTEEE)		Control System Engineering – II (EEE308)	16-07-2017
B-TECH (SBTEEE)		Electric Drives and Traction (EEE309)	16-07-2017
B-TECH (SBTEEE)		Power System Operation and Control (EEE401)	16-07-2017
B-TECH (SBTEEE)		Renewable Energy Systems (EEE402)	16-07-2017
B-TECH (SBTEEE)		Flexible AC transmission systems (EEE403)	16-07-2017
B-TECH (SBTEEE)		Power Quality (EEE405)	16-07-2017
B-TECH (SBTEEE)		Power System Protection (EEE407)	16-07-2017
B-TECH (SBTEEE)		Entrepreneurial Management (HSC483)	16-07-2017
B. Tech CSE (SBTCSE)		Advanced Database (CSE E28)	20-03-2019
B.TECH ECE (SBTECE)		Image and Video Processing(ECE119)	16-07-2017
B.TECH ECE (SBTECE)		Adaptive Signal Processing	16-07-2017
B.TECH ECE (SBTECE)		Speech and Audio processing	16-07-2017
B.TECH ECE (SBTECE)		Telephone Switching and Network	16-07-2017
B.TECH ECE (SBTECE)		Mixed Signal Design(ECE115)	16-07-2017
M. Tech CSE (MTSCE)		High Performance Computing (CS 6E12)	20-03-2019
M. Tech CSE (MTSCE)		Software define network (CS 6E16)	20-03-2019
M. Tech CSE (MTSCE)		Real time system (CS 6E21)	20-03-2019
M. Tech CSE (MTSCE)		Stochastic Process (CS 6E28)	20-03-2019
M. Tech CSE		Time Series Analysis (CS 6E29)	20-03-2019
MCA		Python and R Lab (MC 517)	20-03-2019
MCA		Cyber Security (MC 543)	20-03-2019
MCA		Object Oriented Analysis and Design (MC 54E3)	20-03-2019
M. Sc CS (SMSCS)		Discrete Mathematics (CS 511)	20-03-2019
M. Sc CS (SMSCS)		Data Structures Lab. (CS 527)	20-03-2019
M. Sc CS (SMSCS)		Software Engineering Lab (CS 528)	20-03-2019
M. Sc CS (SMSCS)		Web Technology (CS 534)	20-03-2019
M. Sc CS (SMSCS)		Web Technology Lab. (CS 535)	20-03-2019
M. Sc CS (SMSCS)		Open Source Lab. (CS 536)	20-03-2019
M. Sc CS (SMSCS)		Cyber Security (CS 54E5)	20-03-2019
M. Phil CS (SMPCS)		Internet of Things	20-03-2019
M. Phil CS (SMPCS)		Machine learning	20-03-2019
M. Phil CS (SMPCS)		Big Data Analytics	20-03-2019
M. Phil CS (SMPCS)		Neural Networks & Deep	20-03-2019

		Learning	
M. Phil CS (SMPCS)		Digital Image Processing	20-03-2019
M. Phil CS (SMPCS)		Natural Language Processing	20-03-2019
M. Phil CS		Grid and Cloud Computing	20-03-2019
PhD CSE (SPDCSE)		Combinatorial Optimization	20-03-2019
PhD CSE (SPDCSE)		Neural Networks & Deep Learning	20-03-2019
PhD CSE (SPDCSE)		Probability & Stochastic Process	20-03-2019
PhD CSE (SPDCSE)		Natural Language	20-03-2019
PhD CSE (SPDCSE)		Computational Intelligence	20-03-2019

1.2 Academic Flexibility

1.2.1 New programmes/courses introduced during the Academic year

Programme/Course	Date of introduction
M. Phil Biotechnology	01.01.2018
M.Sc. Food Science and Nutrition	2018-2019
M.Sc. Microbiology/MMB	23.02.2017
Integrated B.Ed.-M.Ed.	2018-19
M.Phil in Social Work	2018-19
Advanced Database (CSE E28)	20-03-2019
High Performance Computing (CS 6E12)	20-03-2019
Software define network (CS 6E16)	20-03-2019
Real time system (CS 6E21)	20-03-2019
Stochastic Process (CS 6E28)	20-03-2019
Time Series Analysis (CS 6E29)	20-03-2019
Python and R Lab (MC 517)	20-03-2019
Cyber Security (MC 543)	20-03-2019
Object Oriented Analysis and Design (MC 54E3)	20-03-2019
Discrete Mathematics (CS 511)	20-03-2019
Data Structures Lab. (CS 527)	20-03-2019
Software Engineering Lab (CS 528)	20-03-2019
Web Technology (CS 534)	20-03-2019
Web Technology Lab. (CS 535)	20-03-2019
Open Source Lab. (CS 536)	20-03-2019
Internet of Things	20-03-2019
Machine learning	20-03-2019
Big Data Analytics	20-03-2019
Neural Networks & Deep Learning	20-03-2019
Digital Image Processing	20-03-2019
Natural Language Processing	20-03-2019
Grid and Cloud Computing	20-03-2019
Combinatorial Optimization	20-03-2019
Neural Networks & Deep Learning	20-03-2019
Probability & Stochastic Process	20-03-2019
Natural Language	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.

Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
M.Sc. Food Science		PG			23.03.2018
M.Sc. Food Science and Nutrition		PG			23.03.2018

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	29
Cell Culture Techniques (BT-534)	12. 04. 2018	29
Pharmaceutical Biotechnology (BT-536D)	12. 04. 2018	29
Molecular Modeling and Simulations (BI-533)	12. 04. 2018	30
Data warehouse and Data Mining (BI-535)	12. 04. 2018	30
Computer Added Drug Design (BI-536)	12. 04. 2018	30
NGS and Microarray Data Analysis (BI-543C)	12. 04. 2018	30
MSC FS	02.08.2018	20
MSC FSN	02.08.2018	19
Communicative English	01.01.2019	1
Information Technology	01.01.2019	3
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	
Agri MBA Summer Training	11	
Field Work in Antropology	16	
M.Sc. BT-Project Work (BT-545)	14	
M.Sc. BI-Project Work (BI-545)	13	
M. Phil – Project Work (BT-622)	8	
M.Sc. Applied Chemistry Industry Project	15	
M.Sc. Computer Science Project	34	
Field mapping and petrological studies in and around Gunderpur area	24	
Economic Geology field project in and around Lajkura Coal mine and Hirakhand Bundia underground mines	24	
Field mapping in and around Sindurpank	24	
Internship at OMDC (Barbil area)	10	
MA Economics Project	12	
M.Tech Food Science	5	
M.Sc. Food Science	17	
M.Sc. In Microbiology	14	
MA in Library and Information Science	37	
MPhil in Library Science	11	
MBA Summer Intership		
MA Political Science	32	
Rural Education and Youth Empowerment	9	
MA Sociology	21	
MA/MSc Statistics	16	
MPhil Staistics	4	
B. Tech CSE	11	
MCA	29	
B. Tech ECE	2	
B. Tech EEE	6	
M.SC. IN ENV.SCIENCE	24	
M.TECH. ENVT. SCI. AND ENGG	18	
M.PHIL. ENV.SCIENCE	14	

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?				
<p>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.</p>				
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	44	14	
MA Anthropology	16	40	17	
M.Sc. Biotechnology	32	200	32	
M.Sc. Bioinformatics	32	65	31	
M.Phil. Biotechnology	12	40	12	
M. Sc. Chemistry	32	1053	32	
M. Sc. Applied Chemistry	15	55	15	
M. Phil. Chemistry	16	52	15	
M.Sc. Computer Science	30	195	30	
M.Sc. Applied Geology	16	150	16	
M.Phil. Applied Geology	7	15	7	
MA Economics	40	170	40	
M.Phil. Economics	7	35	7	
BED-MED	50		50	
MA English	24	210	24	
M.Sc. Environmental Science	24	177	24	
M.Tech. Environmental Science and Technology	24	28	18	
M.Phil. Environmental Science	14	33	14	
M.Tech in Food Science and Technology	20	16	4	
M.Sc. Food Science	20	12	20	
M.Sc. Food Science and Nutrition	20	38	19	
M.A History	32	200	32	
LL.B	24	50	24	
MA Library and Information Science	16	100	16	
M.Sc. Life Science	32	1600	32	

M.Sc. Microbiology	16	100	16
MA/M.Sc. Mathematics	48	576	48
MBA	90	180	70
MPA	32	38	20
M.A. Odia	48	232	48
M.Phil. Odia	6	88	6
M.Sc. Physics	40	848	40
M.Phil Physics	10	23	10
MA Political Science	32	215	32
M.Phil. Political Science	8	60	8
MSW	32	35	17
M.Phil. in Social Work	6	25	6
MA Sociology	24	100	24
M.Phil. Sociology	6	100	6
M.Sc. Statistics	20	250	20
B. Tech CSE	90	Applied through OJEE WEB counselling	67
B. Tech ECE	60		13
B. Tech EEE	60		15
B. Tech CSE(Lateral Entry)	12		1
B. Tech ECE(Lateral Entry)	12		2
B. Tech EEE(Lateral Entry)	12		18
M. Tech Computer Science & Engg.	32	15	8
M. Tech Communication System Engg.	32	7	1
M. Tech Embedded System Engg.	32	4	0
Master in Computer Application	32	42	30
M. Sc Computer Science	32	23	15
M. Sc Electronics	32	19	19
M. Phil Computer Sciece	8	10	7
M. Phil Electronics	8	7	1

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
2018-19	189	1419	05	123	26

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
128	81	LCD Projector,	21	0	MOOC, NPTEL, e-PG Pathshala, INFLIBNET

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

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:

- 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
1608	128	0.08

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	128	57	12	101

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	Prof. Tattwamasi Paltasingh	Professor	Outstanding educator and scholar, National Foundation for Entrepreneurship Development, Tamilnadu, India
2018	Prof. Sanjat Kumar Sahu	Professor	Certificate of Felicitation (towards Academic

			Wisdom, Commendable Research and Outstanding Contribution in the field of Environmental Science) by Chhattisgarh Council of Science and Technology, Chhattisgarh
--	--	--	--

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	19.08.2019	01.11.2019
MA Anthropology	MAATH	Semester	31 st May	05.07.2019
M.Phil. Anthropology	PMATH	Semester	31 st May	16.11.2019
M.Sc. Biotechnology	MSBT	Semester	13.04.2018	02.05.2018
M.Sc. Bioinformatics	MSBI	Semester	13.04.2018	02.05.2018
M.Phil. Biotechnology	MPBT	Semester	22.01.2019	28.01.2019
M.Sc. in Chemistry	MSCH	Semester	11.05.2019	27.06.2019
M. Sc. In Applied Chemistry	MSAC	Semester	11.05.2019	27.06.2019
M.Phil. Chemistry	MPCH	Semester	24.08.2019	26.09.2019
M.Sc. Computer Science	MSCS	Semester	Apr-18	09-08-2018
M-Phil Computer Science	MPCS	Semester	Dec-17	10-07-2018
MSc Applied Geology	MSAG	Semester	30.04.2019	02.07.2019
Mphil Applied Geology	MPAG	Semester	09.02.2019	25.04.2019
Mtech Geospatial Technology	MTGT	Semester	5.10.2019	14.11.2019
MA Economics	MAECO	Semester	25/6/2019	17.07.2019
MBA (Financial Management)	MFC	Semester	21-07-2019	11-09-2019
M. Phil. Economics	MPECO	Semester	29-03-2019	12-04-2019
M A English	MAENG	Semester	19.04.2018	15.06.2018
M Phil English	MPENG	Semester	21.12.2018	29.01.2019
M.Tech. Food Science	MTFS	Semester	06.05.2018	26.05.2018
M.Sc. Food Science	MSFS	Semester	06.05.2018	26.05.2018
PG HINDI	PGHIN	Semester	06-05-2019	19.06.2019
History	MAHIS	Semester	Jun-18	15.07.2019
MA in Home Science	MAHS	Semester	23.06.2018	13.07.2018
M.Phil. In Home Science	MPHS	Semester	22.06.2018	07.09.2018
LL.M	LLM	Semester	27.04.2018	18.06.2018
MA in Library & Information Science	MLIS	Semester	19-04-2018	18-06-2018
M Sc Life Sciences,	MSLS	Semester	06.05.2019	24.06.2019
M Sc. Microbiology	MSMB	Semester	06.05.2019	21.09.2019
M Phil Life Sc.	MPLS	Semester	31.07.2019	22.08.2019
M.Sc. Mathematics	MSMATH	Semester	03.07.2019	27.08.2019
M.Phil in Mathematics	MPMATH	Semester	26.02.2019	02.03.2019
Master of Business administration	MBA	Semester	2018-19	2018-19

Master in Performing Arts	MAP	Semester	02-05-2019	20-07-2019
M.Sc. In Physics	MSPHY	Semester	11.05.2019	26.06.2019
M.Phil. In Physics	MPPHY	Semester	02.03.2019	08.03.2019
MA Political Science	MAPS	Semester	April, 2019	27.6.2019
M.Phil in Political Science	MLPS	Semester	December, 2018	06.06.2019
Master in Social Work	MSW	Semester	31 st May	18.06.2019
MA in Sociology	MASOC	Semester	Apr-19	02.07.2019
Mphil in Sociology	MPSOC	Semester	20-12-2018	22.06.2019
MA/MSc Statistics	MSSTAT	Semester	23.06.2018	29.06.2018
Mphil in Statistics	MPSTAT	Semester	20.12.2018	07.01.2019
B. Tech. Computer Science and Engineering	SBTCSE	Semester	12-05-2019	19-06-2019
B. Tech. Electronics and Communication Engg.	SBTECE	Semester	13-05-2019	19-06-2019
B. Tech. Electrical and Electronics Engineering	SBTEEE	Semester	14-05-2019	19-06-2019
Master in Computer Application	SMCA	Semester	14-05-2019	19-06-2019
M. Sc. Computer Science	SMSCCS	Semester	14-05-2019	19-06-2019
M. Sc. Electronics	SMSCEL	Semester	26-05-2019	19-06-2019
M. Tech. Computer Science and Engineering	SMTCSE	Semester	30-06-2019	10-07-2019
M. Tech. Communication System Engineering	SMTCSY	Semester	15-05-2019	19-06-2019
M. Phil. Computer Science	SMPCS	Semester	06-09-2019	01-10-2019
M. Phil. Electronics	SMPEL	Semester	08-09-2019	01-10-2019
M.Sc. In Environmental Science	MSENV	Semester	May-19	10.07.2019
M.Phil. In Environmental Science	MPENV	Semester	Dec-18	11.06.2019
M. Tech in Environmental Science and Engineering	MTENV	Semester	MAY, 2019	08.01.2020

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	1598	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 and 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 Percentage
SBTCSE	Computer Science and Eng.	29	28	96.6
SBTECE	Electronics and Communication	12	11	91.6
SBTEEE	Electrical and Electronics	14	12	85.6
MAATH	Anthropology	37	31	83.45
MSAC	Applied Chemistry	15	13	86.6
MBA	Business Administration (MBA)	66	50	75.72
MBA (ABM)	Business Administration (MBA in Agri-Business)	10	10	100
MSBT	Biotechnology	15	15	100
MSBI	Bioinformatics	14	13	93.33
MSCH	Chemistry	40	35	87.5
MCA	Computer Application (MCA)	29	24	82.7
MSCS	Computer Science	34	33	97.05
SMSCSE	Computer Science (SUIT)	18	18	100
MSAG	Applied Geology	24	24	100
MAECO	Economics	47	35	74.5
MSELEC	Electronics	15	15	100
MAENG	English	25	25	100
MSENV	Environmental Science	23	23	100
MBA(EXE)	Executive MBA	9	8	88.88
MSFSN	Food Science and Nutrition	50	50	100
MAHIN	Hindi	30	29	96.67
MAHIS	History	37	33	89.17
MSHS	Home Science (HDFS)	15	15	100
LL.M	Law	21	20	95.2
MLIS	Library & Inform. Science	22	22	100
MSLS	Life Sciences	38	38	100
MSMB	Microbiology	16	16	100
MSMATH	Mathematics	47	41	86.48
MFC	MBA (Financial Management)	17	12	70.6
MSW	Master Social Work	16	16	100
MAOD	Odia	47	47	100
MPA	Performing Arts	24	24	100
MSPHY	Physics	37	36	97.3
MAPS	Political Science	42	42	100
MASOC	Sociology	26	25	96.15
MSSTAT	Statistics	16	15	93.75
SMTCSSE	Computer Science and Engineering	11	11	100
SMTCEE	Communication System Engineering	3	3	100
MTENVE	Environmental Science and Engg.	12	11	91.66
MTFST	Food Science and Technology	7	7	100
MTGEOT	Geospatial Technology	11	11	100
MPATH	Anthropology	8	8	100

MPBT	Biotechnology	9	9	100
MPBA	Business Administration	16	16	100
MPCH	Chemistry	29	28	96.5
MPCS	Computer Science	5	5	100
SMPCS	Computer Science (SUIIT)	7	7	100
MPAG	Applied Geology	7	7	100
MPECO	Economics	7	6	87.5
MPELEC	Electronics	1	1	100
MPENG	English	8	8	100
MPENV	Environmental Science	14	14	100
MPHIS	History	12	6	50.0
MPLIS	Library & Inform. Science	4	4	100
MPLS	Life Sciences	14	14	100
MPMATH	Mathematics	11	9	81.8
MPOD	Odia	15	15	100
MPPHY	Physics	10	10	100
MPPS	Political Science	9	9	100
MPPA	Public Administration	5	5	100
MPSW	Social Work	6	6	100
MPSOC	Sociology	7	7	100
MPSTAT	Statistics	5	5	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
National	Prof. Biswajit Satpathy	Best Paper Award	2018	Xavier University, Bhubaneswar, Odisha
National	Dr. L. Mishra	ICSSR Minor Project	29-12-2017	ICSSR
International	Dr. P.K Behera & Dr. Neena Thakur	IPPA, Vietnam	23-28 Sept. 2018	IPPA

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
Short Term for Ph.D	6 Months	ICSSR
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
BSR Fellowship (5)	5 years	UGC
Project Fellow (3)	3 years	DST, India
Project Fellow (1)	3 years	DST, Odisha
Project Fellow (1)	3 years	TRIFED
CSIR NET JRF	12.09.2018-11-09-2023	CSIR
CSIR NET JRF	15.02.2019-14.02.2024	CSIR
DST INSPIRE SRF	29.07.2016-28.07.2021	DST

DST INSPIRE SRF	15.12.2016-14.12.2021	DST
RGNF	5 Years	UGC
NFSHE	5 Years	UGC
NFSHE	5 Years	UGC
MANF	5 Years	UGC
NFSHE	5 Years	UGC
RGNF	5	Ministry of Tribal Affairs, Govt. Of India
JRF (RGNF)	3	UGC
SRF (RGNF)	1	UGC
JRF	2 Years	DST, Odisha
JRF	3 Years	DST, India
SRF	2 Years	UGC, New Delhi
SRF	1 year	DST, Odisha
SRF	02 Years	UGC/DST
Inspired	05 Years	DST
JRF	02 (Two) Years	UGC
SRF	03 (Three) Years	UGC
SRF	5 Yrs	DST, Govt. of India
SRF	5 Yrs	UGC, RGNF
SRF	3 Yrs	BPRF, Govt of Odisha
JRF	5 Yrs	MANF, Govt. of India
JRF, NFST	2018-2023	Ministry of Tribal Affairs
SRF, NFST	2015-2020	Ministry of Tribal Affairs
ICSSR, Research Assistant	2018-2020	ICSSR
ICSSR, Field Investigator	2018	ICSSR
JRF (1)	5 Years	UGC
OURIIP (1)	4 Years	Odisha State Higher Education Council (OSHEC)
JRF	05 YEARS	DST; NEWDELHI
SRF	02 YEARS	DST;NEWDELHI
DST –INSPIRE(SRF)	05YEARS	DST, NEW DELHI
RGNF(JRF)	05YEARS	UGC, NEW DELHI

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	ICCSR, SERB-DST, New Delhi, UGC, DST, Govt. of Odisha,	109.74	73.12
Minor Projects	0		0	0
Interdisciplinary Projects	0		0	0
Industry sponsored Projects	3		--	--
Projects sponsored by the University	0		0	0
Students Research Projects (<i>other than compulsory by the University</i>)	3-5		224.0	224.0
International Projects	0		0	0
Any other (DRS, FIST etc.)	5		10.0	10.0
Total				343.74

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)	
Gandhi Darshan Aur Hindi Sahitya (National Seminar)	HINDI		26-27 MARCH 2019	
National Conference on “Recent advances in Biological Sciences”	School of Life Sciences		3-4 th April 2019	
National Seminar	MBA		2018	
Jateeya Bhasa Sammilani	P.G. Department of Odia		23-26.02.2020	
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
Molecular docking studies between components of Eucalyptus Essential oil and homologically target protein	Dr. (Mrs.) Smaranika Pattnaik	International Conference BIOSPECTRUM-2018 by University of Engineering and Management, Kolkata	28.07.2018	Best oral paper presentation award
Sustainability of workforce through worklife	Best Paper Award	Xavier University, Bhubaneswar, Odisha	2018	Research Scholar
Outstanding Educator and Scholar Award	Prof. Tattwamasi Paltasingh	National Foundation for Entrepreneurship Development (NFED), Tamilnadu, India	05 th September 2019	Education
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			3	
School of Chemistry			9	
Department of Earth Science			1	

Department of Economics	2
Department of English	5
Department of Environmental Science	3
Department of History	4
Department of Home Science	1
Department of Law	3
Department of Library and Information Science	1
School of Life Science	9
Department of Mathematics	1
Department of Business Administration	11
Department of Odia	7
Department of Physics	4
Department of Political Science	2
Department of Statistics	2

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	60	1.1
International	Sambalpur University	153	2.2

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	4
BT & BI	2
Earth Science	9
Food Science and Technology	4
Home Science	4
Law	2
Library and Information Science	1
Life Science	2
Odia	11
Political Science	2
Sociology	1
Statistics	3
SUIT	4

3.4.4 Patents published/awarded during the year

Patent Details	Patent status Published/Filed	Patent Number	Date of Award
Nil			

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
Medicinal Plants in Primary Health Care: A Traditional Knowledge	Rashmi Pramanik & S.C. Murmu	Asian Resonance	2018		Sambalpur University	9
Elucidation of the anticancer potential and tubulin isotype-specific interactions of β -sitosterol.	Pradhan M, Suri C, Choudhary S, Naik PK, Lopus M,	<i>Journal of Biomolecular Structure and Dynamics</i> . 36(1):195-208	2018	Scopus	Sambalpur University	17

Comparative evaluation of anti-angiogenic effects of noscapine derivatives.	Meher RK, Naik MR, Bastia B, Naik PK,	<i>Bioinformation.</i> 14(5): 236-240	2018	Scopus	Sambalpur University	3
Evaluation of antioxidant capacities and total polyphenols in various edible parts of <i>Capparis spinosa</i> L. collected from trans-Himalayas.	Bhoyar MS, Mishra GP, Naik PK, Singh SB,	<i>Defense Life Sciences Journal.</i> 3(2): 140-145	2018	Scopus	Sambalpur University	5
Computer-assisted drug designing of triazole derivative of noscapine as tubulin-binding anticancer drug	Kumari P, Dixit V, Tiwari A K, Saxena S, Vishvakarma N K, Naik P K, Shukla D	<i>Asian J. Pharmaceut. Clin. Res.</i> 11, 69-75	2018	Scopus	Sambalpur University	2
Induction of bioactive compounds in a co-cultured strain of <i>Micromonosperma chinospora</i> (DST-4) isolated from secluded Hirakud dyke soil.	Pattnaik S	<i>Indian Journal of Biotechnology.</i> 17(4): 586-594	2018	Scopus	Sambalpur University	0
Dermal application of lactic acid based cream of a non pathogenic <i>Kocuria marina</i> (BMKO1) strain against <i>Epidermophyton floccosum</i> (MTCC 613) symptomatic excision mice model.	Dash S S and Pattnaik S,	<i>Journal of Drug Delivery and Therapeutic.</i> 9(1-s):113-120	2019	Scopus	Sambalpur University	0
Inefficacy of Plasmid Curing Agents to Eliminate Plasmids in a MDR Strain of <i>Citrobacter</i> sp. (BMSCT1).	Padhan M, Pattnaik S,	<i>International Journal of Contemporary Microbiology.</i> Vol.5, No. 1	2019	Scopus	Sambalpur University	0
Enhanced Dielectric and Ferroelectric Properties of Surface Hydroxylated Na _{0.5} Bi _{0.5} TiO ₃ (NBT) -Poly (vinylidene fluoride) (PVDF) Composites	S. Moharana, S. Sai, R. N. Mahaling	J. Adv. Dielectrics	2018-19	Scopus	Sambalpur University	2
<i>Single or both site doped BiFeO₃-Which is better candidate for profound electronic device applications</i>	M. K. Mishra, R. N. Mahaling	Chinese J. Phys.	2018-19	Scopus	Sambalpur University	3
Studies on the synthesis of spiroheterocycles and their derivatives using dimedone as synthetic precursor	P. Majumdar, P. P. Mohanta, S. Sahu, A. K. Behera	Synth. Commun.	2018-19	Scopus	Sambalpur University	2
<i>Solvent Effect on the Potential Energy Surfaces of the F⁻ +</i>	L. Satpathy, P. K. Sahu, P. K. Behera, B. K.	J. Phys. Chem. A	2018-19	Scopus	Sambalpur University	

<i>CH₃CH₂Br</i> Reaction	Mishra					
<i>Aggregation Behavior of pHLIP in Aqueous Solution at Low Concentrations: A Fluorescence Study.</i>	B. D. Rao, H. Chakraborty, S. Keller, A. Chattopadhyay	J. Fluoresc.	2018-19	Scopus	Sambalpur University	
<i>Thorough understanding of kinetics and mechanism of adsorption of Heavy Metals on a Pyrophyllite Mine Waste based geopolymer</i>	L. Panda, S. S. Rath, D. S. Rao, B. Das, P. K. Misra	J. Mol. Liq.	2018-19	Scopus	Sambalpur University	
<i>Separation and recovery of Sc(III) from Mg–Sc alloy scrap solution through hollow fiber supported liquid membrane (HFLM) process supported by Bi-functional ionic liquid as carrier</i>	P. K. Parhi, S. S. Behera, R. K. Mohapatra, T. R. Sahoo, P. K. Misra, D. Das	Sep. Sci. Tech.	2018-19	Scopus	Sambalpur University	
<i>Perovskite Solar Cells with S,Si-Heteropentacene Based Hole Conductor Yield High Open Circuit Voltage of 1.55 V</i>	N. Arora, M. I. Dar, C. Steck, A. Mishra, M. Alotaibi, P. Bäuerle, S. M. Zakeeruddin, M. Grätzel	Eur. J. Inorg. Chem.	2018-19	Scopus	Sambalpur University	
<i>Influence of surface modification and dispersive additives on dielectric and electrical properties of BiFeO₃/poly (methyl methacrylate) composite films</i>	S. Moharana, M. K. Chopkar, R. N. Mahaling	J. Electron. Mater.	2018-19	Scopus	Sambalpur University	2
<i>Solvent modulated optical tuning for discrimination of Hg²⁺, Zn²⁺ and Cu²⁺ ions by a coumarin-functionalized azine receptor</i>	S. K. Padhan, P. Rana, N. Murmu, B. R. Swain, S. N. Sahu	Ind. J. Chem. B	2018-19	Scopus	Sambalpur University	
<i>Sequential displacement strategy for selective and highly sensitive detection of Zn²⁺, Hg²⁺ and S²⁻ ions: An approach toward a molecular keypad lock</i>	S. K. Padhan, P. Rana, N. Murmu, B. R. Swain, S. N. Sahu	Spectrochimica Acta A	2018-19	Scopus	Sambalpur University	
<i>Enhanced dielectric properties of poly (vinylidene fluoride) composites filled with polystyrene 2% divinyl benzene modified</i>	S. Moharana, M. K. Mishra, B. Dash, R. N. Mahaling	Mater. Res. Innov.	2018-19	Scopus	Sambalpur University	1

<i>Graphite Nanopowders</i>						
<i>Membrane Composition Modulates Fusion by Altering Membrane Properties and Fusion Peptide Structure</i>	G. Meher, H. Chakraborty	J. Mem. Biol.	2018-19	Scopus	Sambalpur University	
<i>Green Synthetic Route of Carbon Quantum Dot reinforced Graphene Oxide-Poly (vinylidene fluoride-co-hexafluoropropylene) Nanocomposites: Towards High Dielectric constant and Suppressed Loss</i>	S. Moharana, R. N. Mahaling	J. Appl. Polym. Sci.	2018-19	Scopus	Sambalpur University	2
<i>Synthesis and Characterization of Novel N-Benzylbenzimidazole Linked Pyrimidine Derivatives as Anticancer Agents</i>	G. K. Padhy, J. Panda, A. K. Behera	Ind. J. Pharma. Edu. Res.	2018-19	Scopus	Sambalpur University	4
<i>Effect of solvent polarity on the potential energy surface in the S_N2 reaction of F⁻ + CH₃Cl</i>	L. Satpathy, S. Sahoo, P. K. Sahu, P. K. Behera, B. K. Mishra	Comput. Theor. Chem.	2018-19	Scopus	Sambalpur University	
<i>Effect of Localization of Ofloxacin (OFX) on Fluorescence Quenching in Micellar Medium</i>	P. Padhan, P. K. Behera	Int. J. Photochem.	2018-19	Scopus	Sambalpur University	
<i>Recognition of the surface characteristics and electrical properties of a nanocrystalline hydroxyapatite synthesized from Pilaglobosa shells for versatile applications</i>	B. Nayak, P. Misra	Mater. Chem. Phys.	2018-19	Scopus	Sambalpur University	
<i>Substituted benzylideneanilines: A family of solvatochromic probes</i>	P. Suna, S. Panigrahi, P. K. Misra	Spectrochimica Acta A	2018-19	Scopus	Sambalpur University	
<i>Efficient Multiprocessor Scheduling Using Water Cycle Algorithm</i>	Nayak, S.K., Padhy, S.K., Panda, C.S.	Advances in Intelligent Systems and Computing	2018	Scopus(03), Research Gate(07)	Sambalpur University, Sambalpur, India	10
<i>Dynamic task scheduling problem based on grey Wolf optimization algorithm</i>	Nayak, S.K., Panda, C.S., Padhy, S.K.	2019 2nd International Conference on Advanced Computational and Communication	2019	Scopus(01), Research Gate (01)	Sambalpur University, Sambalpur, India	2

		Paradigms				
An Appraisal of the Permian Palaeobiodiversity and geology of Ib River Basin, eastern coastal area, India. (Published by Elsevier).	Shreerup Goswami, Anju Saxena, Kamal Jeet Singh, Shaila Chandra, Christopher J. Cleal	1. Journal of Asian Earth Sciences, 157: 283-301	2018	Scopus	Department of Earth Sciences, Sambalpur University	15
Biostratigraphy and floristic evolution of coal swamp floras of a part of Talcher basin, India: a window on a Permian temperate ecosystem	Shreerup Goswami, Das K, Sahoo M, Bal S, Pradhan S, Singh KJ and Saxena A	Arabian Journal of Geosciences 11:524	2018	Scopus	Department of Earth Sciences, Sambalpur University	6
Palynology of the cyclolobus walkeri bed, gungri formation (late Permian), Spiti valley, northwest Himalaya, India.	Ram-Awatar, Rajni Tewari, Saurabh Gautam, Shreerup Goswami, Michael Brookfield, Deepa Agnihotri and Jeremy Williams	Journal of the Palaeontological Society of India	2018	Scopus	Department of Earth Sciences, Sambalpur University	
Acoustic environment in the bus: an empirical study.	Bijay K. Swain and Shreerup Goswami	Pollution, 4 (2): 327-333	2018	Scopus	Department of Earth Sciences, Sambalpur University	
Climate Indicators: Foot Prints of Past Climate	M. Sahoo, S. Bal, P.K. Mohanty and Shreerup Goswami	Everyman's Science, 53 (6): 357-362	2019	Scopus	Department of Earth Sciences, Sambalpur University	
Late Ordovician Mass Extinction	Sanghamitra Pradhan and Shreerup Goswami.	Everyman's Science, 54 (1): 11-17	2019	Scopus	Department of Earth Sciences, Sambalpur University	
The P3 kimberlite and P4 lamproite, Wajrakarur Kimberlite Field, India: Mineralogy, and major and minor element compositions of olivines as records of their phenocrystic versus xenocrystic origin	Azhar M. Shaikh, Satya P. Kumar, Suresh C. Patel, S. S. Thakur, S. Ravi, D. Behera	Mineralogy and Petrology 112 (2), 609-624	2018		Department of Earth Sciences, Sambalpur University	18
Groundwater Quality Assessment around Baripada Area, Mayurbhanj District, Odisha, India	Nandita Mahanta, H.K. Sahoo., P. Barik., P.S. Mahanta	Environmental Geochemistry	2018	-	Department of Earth Sciences, Sambalpur University	
Structural Legacy, Inefficiency, and Weakening Social Securities: A Study of NREGS in a	R. K. Kumbhar	The Long Road to Social Security	2013		Sambalpur University	3

Panchayat in Odisha						
Socio-Economic Survey of Villages in and around Chilika	K Samal, S Meher, K Meher, L Mishra	Naba Krushna Choudhury Centre for Development Studies, Orissa, Bhubaneswar	1999		N.C.D.S., Bhubaneswar	21
Including agriculture in sustaining economic growth of India	TK Das, L Mishra	The IUP Journal of Applied Economics	2010		Sambalpur University	3
Exchange rate pass-through to domestic prices: The Indian Experience	G Mendali, S Das	Fourth IIFT Conference on empirical issues in international trade and ...	2014		Sambalpur University	3
Falling Sex Ratio and Health Deprivation of Women in India: An Interface between Resources, Culture and Gender	K Sarap, S Das, M Nagla	Sociological Bulletin, Journal of the Indian Sociological Society	2013		Sambalpur University	2
Morbidity, Household Spending and the Burden of Health Care on the Urban Poor in Orissa	S Das	Journal of Health Management	2012		Sambalpur University	1
Step an Procedure of Educational Research: A Review	J. Khamari	Annals Of Education	2018		Education Department, Sambalpur University	
Tools and Technique of data collections	J. Khamari	Annals Of Education	2018		Education Department, Sambalpur University	
Culture as a means of promoting learning	J. Khamari	Annals Of Education	2018		Education Department, Sambalpur University	
Social stratification – concept form and functions	J. Khamari	Annals Of Education	2018		Education Department, Sambalpur University	
Reasoning ability as a determinant of teaching aptitude – A study on Teacher Trainee Student of Durg- Bhilai Reason	J. Khamari	Research Journal of Educational Sciences	2018		Education Department, Sambalpur University	
Violation of women human right in Odisha – Education and Politics	J.Khamri	International Journal of Applied Research	2019		Education Department, Sambalpur University	
Mother Tongue discovered: Translation Culture and Power	A K Mohapatra	Translation Today	2018		Sambalpur University	
Unheard voices in the house: A Study of <i>Fire on the Mountain</i>	S Tripathy	SETU	2018		Sambalpur University	
Salman Rushdie’s “A dream of Glorious Return”: The Text that	Aloka Patel	Accepted for Publication in <i>a/b: Auto/Biography</i>	2019		Sambalpur University	

Slides...		<i>Studies</i>				
Colonising Nature, Colonising Women: Some thoughts on women and landscape in English Literary Texts	Aloka Patel	<i>Women in Text</i>	2018		Sambalpur University	
Mapping Self and the Times: Satchidananda Routray's <i>Uttara Kaksha</i> ". <i>The Unbilled Hour</i> . Ed. Bijay K Danta	Ashok K Mohapatra	<i>The Unbilled Hour</i> . Ed. Bijay K Danta	2018		Sambalpur University	
A Comparative study on alcoholic and non-alcoholic person with RDA in our locality (Kapasaria, West Bengal)	Souvik Tewari, Shweta Parida, S. Das & T.K.Ghosh	The Pharma Innovation Journal	2019		Sambalpur University	
Prevention of Chronic Liver Disease by Applying Therapeutic Diet	Souvik Tewari, Shweta Parida, Shimar Mishra & Nirmalya Sinha	The Pharma Innovation Journal	2019		Sambalpur University	
Optimization of Nutritious Mulberry blended Herb Juices using Response Surface Methodology	Shweta Parida, Kalpana Rayaguru & Jogeswar Panigrahi	Journal of Agril. Engg. and Food Tech.	2018		Sambalpur University	
Diet and Nutritional Status of Lactating Mothers with Special Emphasis on Maternal Risk Factors	Dr. Chandrashree Lenka	International Journal of Applied Home Science	2018		Sambalpur University	
Food Habits and Nutritional Profile Of Menopausal Women- A Study in Urban Area	Dr. Chandrashree Lenka	International Journal of Food Science & Nutrition	2018		Sambalpur University	
Gotipua-A Traditional Folk Dance of Odisha.	Dr. Chandrashree Lenka	National Journal of Multidisciplinary Research & Development	2018		Sambalpur University	
Health Problems of Farm Women in Rural Odisha	Dr. Chandrashree Lenka	International Journal of	2018		Sambalpur University	
Attitude of Adolescent Girls towards Marriage and Family Life	Dr. Chandrashree Lenka	Applied Home Science	2018		Sambalpur University	
Nutritional Analysis of some Uncommon Vegetables of Odisha.	Dr. Chandrashree Lenka	National Journal of Multidisciplinary Research & Development	2018		Sambalpur University	
Role of Rag pickers in Municipal Solid Waste Management-A case study in Bhubaneswar city ,Odisha	Chandrashree Lenka	International Journal of Food Science & Nutrition	2018		Sambalpur University	
A study on job satisfaction of Anganwadi workers in	Chandrashree Lenka	International Journal of Scientific Research and review	2018		Sambalpur University	

Bargarh District of Odisha.						
Impact of mining on socio economic and health status of indigenous people-A case study of Keonjhar.	Ms Lipsa Dash	International Journal of Applied Social Science	2018		Sambalpur University	
Environmental awareness and waste disposal practices of Home makers of Jyotivihar campus of Sambalpur University.	Trupti Pradhan	International Journal of Applied Social Science	2018		Sambalpur University	
Conversions to other religions vis-a-vis Conflict of matrimonial law in India: A Socio-Legl Study	Sahu Meena Ketan	Saudi Journal of Al-Qanun:Scholas International Journal of Law, Justice and Justice, Dubai, UAE	2018		Sambalpur University	
Party Centric New Democratic Dynasty: A Challenge to Indian Republican Value	Prayas Dansana	International Journal of Applied Social Science	2019		Sambalpur University	
Acrimonious Facts about Simultaneous Election in Odisha	Prayas Dansana	International Journal of Applied Social Science	2019		Sambalpur University	
The effects of Dimensions of Organizational Structure on Innovation among Academic Business School Libraries in India: An Empirical Study. 9 (2), 2019, p. 587-589	CHAMPESWAR MISHRA & BULU MAHARANA	International Journal of Scientific and Research Publications (ISSN:2250-3153)	2019	Google Scholar	SAMBALPUR UNIVERSITY	1
Familiarity of Web 2.0 and its Application in Learning: A Case Study of Seven Indian Universities. 55 (4), 2018, p. 194-203	SABITRI MAJHI & BULU MAHARANA	<i>SRELS Journal of Information Management (ISSN: 0972-2467)</i>	2018	ICI	SAMBALPUR UNIVERSITY	0
Perception of Scholarly publishing in the Open Access Routes: S Survey of LIS Professionals in Odisha. Art. No. 2117, 2018.	MAJHI, S, BARAL, S & MAHARANA, B	<i>Library Philosophy & Practice</i> (ISSN: 1522-0222) SCOPUS Indexed	2018	Scopus	SAMBALPUR UNIVERSITY	0
Impact of Electronic Information resources on users of selected engineering college libraries of Odisha. 7 (2), 2018,p. 30-38	PADHI, A & MAHARANA, B	<i>International Journal of Library & Information Science</i> (ISSN: 2277-3533)	2018	Google Scholar	SAMBALPUR UNIVERSITY	0
Information Literacy Skill: An Evaluative Study on the Students of LIS Schools in Odisha. 10 (1), P. 15-	PATI, B & MAJHI, S	International Journal of Digital Literacy and Digital Competence	2019	Google Scholar	SAMBALPUR UNIVERSITY	1

33						
Pragmatic Implications of Embedded Librarianship in Academics: A Review of Eminent Literatures	PATI, B & MAJHI, S	Library Hi tech news. https://doi.org/10.1108/LHTN-08-2018-0052 ISSN (online) : 0741-9058	2019	Scopus	SAMBALPUR UNIVERSITY	5
Incomplete balancing and Lucas –balancing numbers	Dr. Prasanta Ku. Ray	Mathematical Reports	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	12
A brief remark on balancing Wilferich primes	Dr. Prasanta Ku. Ray	Mathematica	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	--
Positive Integer Solutions of Certain Diophantine equations, Proceeding	Dr. Prasanta Ku. Ray	Mathematical Sciences	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	2
On Lucas balancing Zeta functions	Dr. Prasanta Ku. Ray	Acta et Commentation Universitatis Tartuensis de Mathematica	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	1
Regularized Products Over balancing and Lucas-balancing numbers	Dr. Prasanta Ku. Ray	<i>Indian Journal of Mathematics</i>	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	--
Period of balancing numbers modlu product of consecutive lucas-balancing numbers	Dr. Prasanta Ku. Ray	Mathematica	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	--
On arithmetic functions of balancing and Lucas balancing numbers	Dr. Prasanta Ku. Ray	Article in press, Mathematical Communications	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	--
Higher-order identities for the second order sequence Scientific Annals of the Alexandru Ioan University of Iasi (New Series)	Dr. Prasanta Ku. Ray	TOM LZIV	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	--
On Oscillatory non linear fourth order difference equations with delays	Dr Arun Kumar Tripathy	Mathematica Bohemica	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	3
Non oscillation criteria for a class of second order neutral delay dynamic equations	Dr Arun Kumar Tripathy	DCDIS: Series A-Mathematical Analysis	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	--
Oscillation of sub linear second order neutral differential equations via Riccati transformation	Dr Arun Kumar Tripathy	Springer Proceeding in Mathematics & Statistics	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	--
Hyers-Ulam stability of first order linear difference operators on Banach space	Dr Arun Kumar Tripathy	J.Adv Math.	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	--

Oscillation of a class of neutral delay dynamic equations of fourth order	Dr Arun Kumar Tripathy	Global Stoch.Anal	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	3
Oscillation of unforced impulsive neutral delay differential equations of first order	Dr Arun Kumar Tripathy	Commu.Appl.Anal	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	--
Sufficient conditions for oscillation and nonoscillation of a class of second order neutral differential equations	Dr Arun Kumar Tripathy	Adv.Dyn.Syst.Appl.	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	2
Oscillation criteria for three dimensional linear difference systems	Dr Arun Kumar Tripathy	Appl.Anal.Dis.Math	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	--
On Oscillatory Fourth Order Non Linear Neutral Differential Equation-III	Dr Arun Kumar Tripathy	Mathematica Slovaca	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	4
Third order differential subordination and differential superordination results for analytic functions involving the Srivastav-Attiya operator	Dr P.Gochhayat	App Math Inf Sci12 No.3	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	12
Certain Sub-Classes of harmonic multivalent functions involving Integral Operator	Dr P.Gochhayat	Int.J.Open Problems in Complex Analysis	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	--
On certain harmonic mappings with same fixed co-efficients	Dr P.Gochhayat	Montsh.Math.doi 10.1007/00605-018-1228-1	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	--
A subclass of harmonic univalent mapping with restricted analytic part	Dr P.Gochhayat	Comm.Korean Math.Soc	2018	Scopus	Deptt. Of Mathematics, Sambalpur University	1
Hybrid collocation methods for eigen value problem of a compact integral operator with weakly singular kernel	Dr(Mrs)B.L.Pa nigrani	<i>Applied Mathematics and Computation</i>	2018	<i>Scopus</i>	Deptt. Of Mathematics, Sambalpur University	2
Discrete Legendre collocation methods for Fredholm Hammerstein integral equation with singular kernel	Dr(Mrs)B.L.Pa nigrani	<i>CCIS Series conference Proceeding</i>	2018	Scopus		
Error analysis of Jacobi spectral collection methods for Fredholm Hammerstein Integral equations with weakly singular kernel	Dr(Mrs)B.L.Pa nigrani	International Journal of Computer Mathematica	2018	<i>Scopus</i>	Deptt. Of Mathematics, Sambalpur University	
Legendary spectral	Dr(Mrs)B.L.Pa	<i>International</i>	2018	<i>Scopus</i>	Deptt. Of	

projection methods for Hammerluin integral equations with weakly singular Kernel	nigrahi	<i>Journal of Applied and computational mathematics</i>			Mathematics, Sambalpur University	
Incomplete balancing and Lucas –balancing numbers	Dr. Prasanta Ku. Ray	Mathematical Reports	2018	Scopus	Sambalpur University	9
A brief remark on balancing Wilferich primes	Dr. Prasanta Ku. Ray	Mathematica	2018	Scopus	Sambalpur University	6
Positive Integer Solutions of Certain Diophantine equations, Proceeding	Dr. Prasanta Ku. Ray	Proceeding of Mathematical Sciences	2018	Scopus	Sambalpur University	26
On Lucas balancing Zeta functions	Dr. Prasanta Ku. Ray	Acta et Commentation Universitatis Tartuensis de Mathematica	2018	Scopus	Sambalpur University	6
Regularized Products Over balancing and Lucas-balancing numbers	Dr. Prasanta Ku. Ray	<i>Indian Journal of Mathematics</i>	2018	Scopus	Sambalpur University	9
Period of balancing numbers modulu product of consecutive lucas-balancing numbers	Dr. Prasanta Ku. Ray	Mathematica	2018	Scopus	Sambalpur University	6
On arithmetic functions of balancing and Lucas balancing numbers	Dr. Prasanta Ku. Ray	Mathematical Communications	2018	Scopus	Sambalpur University	18
Higher-order identities for the second order sequence	Dr. Prasanta Ku. Ray	Scientific Annals of the Alexandru Ioan Cuza University (New Series)	2018	Scopus	Sambalpur University	
On Oscillatory non linear fourth order difference equations with delays	Dr Arun Kumar Tripathy	Mathematica Bohemica	2018	Scopus	Sambalpur University	11
Non oscillation criteria for a class of second order neutral delay dynamic equations	Dr Arun Kumar Tripathy	DCDIS: Series A-Mathematical Analysis	2018	Scopus	Sambalpur University	--
Oscillation of sub linear second order neutral differential equations via Riccati transformation	Dr Arun Kumar Tripathy	Springer Proceeding in Mathematics & Statistics	2018	Scopus	Sambalpur University	26
Hyers-Ulam stability of first order linear difference operators on Banach space	Dr Arun Kumar Tripathy	J.Adv Math.	2018	Scopus	Sambalpur University	--
Oscillation of a class of neutral delay dynamic equations of fourth order	Dr Arun Kumar Tripathy	Global Stoch.Anal	2018	Scopus	Sambalpur University	10
Oscillation of unforced impulsive neutral delay differential equations of first order	Dr Arun Kumar Tripathy	Commu.Appl.Anal	2018	Scopus	Sambalpur University	19

Sufficient conditions for oscillation and nonoscillation of a class of second order neutral differential equations	Dr Arun Kumar Tripathy	Adv.Dyn.Syst.Appl.	2018	Scopus	Sambalpur University	1
Oscillation criteria for three dimensional linear difference systems	Dr Arun Kumar Tripathy	Appl.Anal.Dis.Math	2018	Scopus	Sambalpur University	26
On Oscillatory Fourth Order Non Linear Neutral Differential Equation-III	Dr Arun Kumar Tripathy	Mathematica Slovaca	2018	Scopus	Sambalpur University	23
Third order differential subordination and differential superordination results for analytic functions involving the Srivastav-Attiya operator	Dr P.Gochhayat	App Math Inf Sci12 No.3	2018	Scopus	Sambalpur University	38
Certain Sub-Classes of harmonic multivalent functions involving Integral Operator	Dr P.Gochhayat	Int.J.Open Problems in Complex Analysis	2018	Scopus	Sambalpur University	--
On certain harmonic mappings with same fixed co-efficients	Dr P.Gochhayat	Montsh.Math.doi 10.1007/00605-018-1228-1	2018	Scopus	Sambalpur University	37
A subclass of harmonic univalent mapping with restricted analytic part	Dr P.Gochhayat	Comm.Korean Math.Soc	2018	Scopus	Sambalpur University	15
Hybrid collocation methods for eigen value problem of a compact integral operator with weakly singular kernel	Dr(Mrs)B.L.Pa nigrahi	<i>Applied Mathematics and Computation</i>	2018	Scopus	Sambalpur University	
Discrete Legendre collocation methods for Fredholm Hammerstein integral equation with singular kernel	Dr(Mrs)B.L.Pa nigrahi	<i>CCIS Series conference Proceeding</i>	2018	Scopus	Sambalpur University	
Error analysis of Jacobi spectral collection methods for Fredholm Hammerstein Integral equations with weakly singular kernel	Dr(Mrs)B.L.Pa nigrahi	<i>International Journal of Computer Mathematica</i>	2018	Scopus	Sambalpur University	
Legendary spectral projection methods for Hammerstein integral equations with weakly singular Kernel	Dr(Mrs)B.L.Pa nigrahi	<i>International Journal of Applied and computational mathematics</i>	2018	Scopus	Sambalpur University	
Justification of e-Governance in Education: A Multicriteria Decision Approach	D K Mahalik	International Journal of Applied Industrial Engineering, ISSN:	2018	Scopus	Sambalpur University	

Measuring the performance of banks using combination of AHP-VIKOR analysis	D K Mahalik	International Journal of Business, Management and Allied Sciences (IJBMAS)	2018	Scopus	Sambalpur University	
Evaluating and Ranking the Performance of Banks Using Vikor Analysis	D K Mahalik		2018		Sambalpur University	
Bulk viscosity of the neutron star matter under the influence of direct URCA reactions	B.Behera, T.R. Routray, X. Vinas, D.N. Basu, M. Centelles S. P. Pattanaik and K. Madhuri	Proceeding of DAE international symposium on Nuclear Physics	2018	Scopus	Sambalpur University	
ADDENDUM: Influence of Nuclear matter equation of states on the g-mode instability using the finite range simple effective interaction.	B.Behera, T.R. Routray, X. Vinas, D.N. Basu, M. Centelles S. P. Pattanaik and K. Madhuri	J. Physics. G: Nucl. Part. Phys	2018	Scopus	Sambalpur University	
Influence of interaction density calculated by thermodynamical method and Dynamical method on crystal fraction of moment of inertia of neutron star using R_s and G_s sky interactive.	T.R.Routray, D.N. Basu, S.P. Pattanaik and K. Madhuri	Proceeding of DAE international symposium on Nuclear Physics	2018		Sambalpur University	
Role of Nuclear matter saturation properties in the predictions of finite nuclei.	T.R.Routray, X.Vinas, P. Bano, M. Centelles, S.P. Pattanaik and L.M. Robledo	Proceeding of DAE international symposium on Nuclear Physics	2018		Sambalpur University	
Intensity of Gravitational wave emitted by pulsar neutron stars due to g-mode oscillation.	T.R. Routray, X. Vinas, D.N. Basu, S.P. Pattnaik, M. Centelles, K. Madhuri and B. Behera	Proceeding of DAE international symposium on Nuclear Physics	2018		Sambalpur University	
Dielectric, impedance and modulus spectroscopy of $BaBi_2Nb_2O_9$	Sunanda K. Patri, P. L. Deepti, R. N. P. Choudhary and Banarji Behera	Journal of Electroceramics	2018	Scopus	Sambalpur University	
Effect on Electrical Properties of Gd-Doped $BiFeO_3$ - $PbZrO_3$	S. K. Satpathy, N. K. Mohanty, A. K. Behera, B. Behera	Iranian Journal of Science and Technology, Transactions A: Science	2018	Scopus	Sambalpur University	
Dielectric, Electrical and Conduction Mechanism Study of $0.6BiFeO_3$ - $0.4PbTiO_3$	Truptimayee Sahu and Banarji Behera,	Transactions on Electrical and Electronic Materials	2018	Scopus	Sambalpur University	3
Electrical properties of Y-type hexaferrite	Bibhuti B. Sahu, S.K.	Journal of Advanced Dielectrics	2018	Scopus	Sambalpur University	1

	Patri, Banarji Behera and B. Maharana					
Role of Gd-doping in conduction mechanism of BFO-PZO nanocrystalline composites: Experimental and first-principles studies	Ambika Ray, Tanmoy Basu, Banarji Behera, Mathan Kumar, Ranjit Thapa, P. Nayak	Journal of Alloys and Compounds	2018	Scopus	Sambalpur University	13
Modification of structural and dielectric properties of polycrystalline Gd-doped BFO-PZO	Ambika Ray, Banarji Behera, Tanmoy Basu, Saumitra Vajandar, Santosh Kumar Satpathy	Journal of Advanced Dielectrics	2018	Scopus	Sambalpur University	2
Fabrication, electrical and magnetic properties of 0.7(BiGd _x Fe _{1-x} O ₃)-0.3(PbTiO ₃) ceramics	Krishna Auromun, Sugato Hajra, Banarji Behera and R.N.P. Choudhary	Journal of the Chinese Advanced Materials Society (JCAMS)	2018	Scopus	Sambalpur University	1
Structural and electrical properties of 0.7(BiSm _x Fe _{1-x} O ₃)-0.3(PbTiO ₃) composites	Krishna Auromun, Suga to Hajra, R. N. P. Choudhury, Banarji Behera	Applied Physics A	2019	Scopus	Sambalpur University	8
Influence of NaNbO ₃ on the structural, optical and dielectric properties of 0.05(K _{0.5} Bi _{0.5} TiO ₃)-0.95(NaNbO ₃) composites ceramics	S. K. Mohanty, Hari Sankar Mohanty, Banarji Behera, Debi P. Ojha, S. Behera, Piyush R. Das	Journal of Materials Science: Materials in Electronics	2019	Scopus	Sambalpur University	3
Dielectric, electrical and magnetic study of rare-earth-doped bismuth ferrite lead titanate	Truptimayee Sahu & Banarji Behera	Applied Physics A	2,019	Scopus	Sambalpur University	2
<i>Calculating charged particle observables using modified Wood Saxon model in HIJING for U+U collisions at $\sqrt{s_{NN}} = 193$ GeV</i>	S.K. Tripathy, M. Younus, Z. Naik, P.K. Sahu	Nuclear Physics A	2018	Scopus	Sambalpur University	
J Selection Rule and Reduced Matrix Elements of K-Isomer Decay: K=6+ Isomer Decay of 170Hf to the Ground Band	B.B. Sahu ¹ , Z. Naik [†] and C.R. Praharaj ³	Proceeding of DAE international symposium on Nuclear Physics	2018		Sambalpur University	
Structural Description, spectral analysis and reactivity descriptors of Nematogens containing Cyano group- A comparative quantum chemical computational	Seema Prasad, D.P.Ojha	Mol. Cryst. Liq. Cryst. UK.	2018	Scopus	Sambalpur University	0

approach.						
Molecular Structure, Vibrational Spectroscopic and chemical reactivity of Nematogenic p-n-Alkylbenzoic acids- A comparative computational analysis.	Seema Prasad, D.P.Ojha	Mol. Cryst. Liq. Cryst. UK.	2018	Scopus	Sambalpur University	0
Molecular Structure, Vibrational Spectroscopic, Electronic Properties and chemical stability of p-n-Alkylbenzoic acids(nBAC)- A comparison using DFT and HF methods.	Seema Prasad, D.P.Ojha	Acta Physica Polonica, Poland-A	2018	Scopus	Sambalpur University	
Geometric Structures, Vibrational Spectroscopic and global reactivity descriptors of Nematogens containing strong polar group - A comparative analysis using DFT , HF and MP2 methods.	Seema Prasad, D.P.Ojha	Mol. Cryst. Liq. Cryst. UK.	2018	Scopus	Sambalpur University	2
Optimized molecular geometries, Vibrational Spectra and Frontier molecular Orbital of Fluorinated liquid crystals-A comparative Quantum Chemical Calculations.	Seema Prasad, D.P.Ojha	Mol. Cryst. Liq. Cryst. UK.	2018	Scopus	Sambalpur University	1
Structural and Electrical properties of Bi ₃ TiVO ₉ Ferroelectric Ceramics	Prabhasini Gupta, Rajib Padhee, P. K. Mahapatra, R. N. P. Choudhary and Satyabati Das	<i>Journal of Alloys and Compounds</i>	2018	Scopus	Sambalpur University	25
Effect of Gd on dielectric and piezoelectric properties of lead zirconate titanate ferroelectric ceramics	S. C. Panigrahi, Piyush R. Das, R. Padhee and R. N. P Choudhary	<i>Ferroelectrics</i>	2018	Scopus	Sambalpur University	
Dielectric Relaxation Behavior of Exfoliated Graphite Nanoplatelets Filled Ethylene Vinyl Acetate Copolymer and Ethylene Propylene Diene Terpolymer Blend	Nimai Charan Nayak, Bikash Kumar Dash, Bichitrananda Parida, and R. Padhee	<i>Journal of Materials Science: Materials in Electronics</i>	2018	Scopus	Sambalpur University	
Dielectric and	Varsa Purohit,	<i>Ceramics</i>	2018	Scopus	Sambalpur	50

Impedance Spectroscopy of Bi(Ca _{0.5} Ti _{0.5})O ₃ Ceramic	Rajib Padhee and R. N. P. Choudhary	<i>International</i>			University	
Structural and Electrical Properties of Bi(Mg _{0.5} Ti _{0.5})O ₃ Ceramic	Varsa Purohit, Rajib Padhee and R. N. P. Choudhary	<i>Journal of Materials Science: Materials in Electronics</i>	2018	Scopus	Sambalpur University	22
Ferroelectric and Optical properties of 'Ba' doped new double Perovskites	B. N. Parida, Niranjana Panda, R. Padhee and R. K. Parida	<i>Phase Transitions</i>	2018	Scopus	Sambalpur University	
Structural and Electrical characteristics of Bi ₂ YTiVO ₉ Ceramic	Prabhasini Gupta, Rajib Padhee, P. K. Mahapatra, R. N. P. Choudhary	<i>Materials Research Express</i>	2018	Scopus	Sambalpur University	
Nanosensing of pesticides by zinc oxide quantum dot: an optical and electrochemical approach for the detection of pesticides in water	Dibakar Sahoo, Abhishek Mandal, Tapas Mitra, Kaushik Chakraborty, Munmun Bardhan, Anjan Kumar Dasgupta	Journal of agricultural and food chemistry	2018	Scopus	Sambalpur University	49
Sensing of Different Human Telomeric G-Quadruplex DNA Topologies by Natural Alkaloid Allocryptopine Using Spectroscopic Techniques	P Mandal, D Sahoo, S Saha, J Chowdhury	The Journal of Physical Chemistry B	2018	Scopus	Sambalpur University	4
Probing the reverse micelle environment with a cationic dye by varying oil and water content of micelles	Abbas Rahdar, Mousa Aliahmad, Adeleh Moradi Kor, Dibakar Sahoo	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2019	Scopus	Sambalpur University	8
An Inventory Production Policy for a Single Parameter Weibull Deteriorating Item With Exponential Demand and Shortages	Sahu, S.	International Journal of Scientific Research in Computer Science Applications and Management Studies,	2018		Sambalpur University	
A Deteriorating Inventory Model With Linear, Exponential Demand With Shortage,	Sahu, S.	International Journal of Research in Humanities, Arts and Literature	2018		Sambalpur University	
Retail-Chain Multi-Item Optimization: A Mixed Integer Non-Linear (MINL) Heuristic Approach,	Pattnaik, M.	Singaporean Journal of Business Economics and Management Studies (SJBEM),	2018		Sambalpur University	
Impact Of Publicity Effort And Variable Ordering Cost In Multi-Product Order	Pattnaik, M.	Log Forum,	2018		Sambalpur University	

Quantity Model Of Units Lost Sales Due To Deterioration,.						
On the use of super population model in two occasion successive sampling under non-response.	International Journal of Mathematics & Statistics,	Khetan, M., Singh, G. N. and Verma, P. (2018):	2018		Sambalpur University	
Stock Market Growth Link in Asian Emerging Countries: Evidence from Granger Causality and Co-integration Tests,	Advances in Growth Curve and Structural Equation Modeling,	Monalisha Pattnaik, P. Gahan	2018		Sambalpur University	
Generalized exponential methods of imputation in estimation of current population mean in two-occasion successive sampling.	International Journal of Statistics & Economics	Khetan, M., Singh, G. N. and Verma, P.	2018		Sambalpur University	
Moisture sorption isotherms and thermodynamic properties of sorbed water of chironji (<i>Buchanania lanzan</i> Spr eng.) kernels at different storage conditions	Sahu, S.N., Tiwari, A., Sahu, J.K., Naik, S.N., Baitharu, I. and Kariali, E	<i>Journal of Food Measurement and Characterization.</i>	2018	Google Scholar & Scopus	Sambalpur University	4
Erythrocyte cAMP in Determining Frequency of Acute Pain Episodes in Sickle Cell Disease Patients from Odisha State, India	Jit BP, Mohanty PK, Pradhan A, Purohit P, Das K, Patel S, Meher S, Sinha S, Mohanty JR, Behera RK and Das P	<i>Hemoglobin</i>	2019	Google Scholar	Sambalpur University	3
Sputum proteomics Reveals a shift in Vitamin D-binding protein and Antimicrobial protein Axis in tuberculosis patients	Bishwal SC, Das MK, Badireddy VK, Dabral D, Das A, Mahapatra AR, Sahu S, Malakar D, Singh II, Mazumdar H, Patgiri SJ, Deka T, Kapfo W, Liegise K, Kupa R, Debnath S, Bhowmik R, Debnath R, Behera RK, Pillai MG, Deuri P, Nath R, Khalo KP, Sing WA, Pandit B, Das A, Bhattacharya	<i>Scientific Reports</i>	2019	Google Scholar	Sambalpur University	13

	S, Behera D, Saikia L, Khamo V and Nanda RK					
Association of fetal hemoglobin level with frequency of acute pain episodes in sickle cell disease (HbS-only phenotype) patients, Diseases,	Jit BP, Mohanty PK, Purohit P, Das K, Patel S, Meher S, Mohanty JR, Sinha S, Behera RK and DasP	<i>Blood Cells, Molecules</i>	2019	Google Scholar	Sambalpur University	5
Comparison of soil characteristics and carbon content of contrastingly different moist-mixed deciduous and evergreen mangrove forest in Odisha, India	Pattnayak S, Kumar M, Sahu SC, Dhal NK and Behera RK	<i>Geology, Ecology, and Landscapes</i>	2019	Google Scholar	Sambalpur University	3
Effect of nickel on some biochemical parameters of tissues like liver, kidney, brain and ovary of the fresh water fish <i>Oreochromis mossambicus</i>	Patnaik A., Bhoi S. and Behera R.	<i>International Journal of Research and Analytical Reviews</i>	2018	Google Scholar	Sambalpur University	----
Negative effect of phosphogypsum over the physiological activities of earthworm <i>Eisenia fetida</i> ,	Behera A.K. and Patnaik A. (2018)	<i>Applied Ecology and Environmental Research</i>	2018	Google Scholar	Sambalpur University	3
Molecular diversity of <i>Lampitoma mauritii</i> and <i>Perionyx excavatus</i> across North Eastern Ghats of Odisha using RAPD markers,	Sankar A.S., Patnaik A. and Agrawal P.	<i>Research & Reviews: A Journal of Life Sciences</i>		Google Scholar	Sambalpur University	----
Setal-epidermal, muscular and enzymatic anomalies induced by certain agrochemicals in the earthworm <i>Eudrilus eugeniae</i> (Kinberg)	Samal S, Mishra, C S K, Sahoo S	<i>Environ Sci Pollut Res</i>	2019	Google Scholar	Sambalpur University	11
Evaluating the effect of monocrotophos and glyphosate on microbial population and certain important exoenzyme activities in soil	Samal S, Sahoo S Mishra, C S K	<i>J. Environ. Biol</i>	2019	Google Scholar	Sambalpur University	---
Setal anomalies in the tropical earthworms <i>Drawida willsi</i> and <i>Lampito mauritii</i> exposed to elevated concentrations of certain agrochemicals: an electron	Samal S, Samal R, Mishra, C S K, Sahoo S	<i>Environmental Technology & Innovation</i>	2019	Google Scholar	Sambalpur University	1

micrographic and molecular docking approach,						
A Study on Socio-economic aspects of Betel Vine Cultivation of Bhogarai area of Balasore District, Odisha.	Patra B, Pradhan SN	<i>Journal of Experimental Science</i>	2018	Google Scholar	Sambalpur University	---
Eco-physiological Evaluation of the Betel Vine Varieties Cultivated in Bhogarai area of Balasore District, Odisha, India for disease management and increasing crop yield.	Patra B, Pradhan SN, Das MT & Dey SK	<i>International Journal of Recent Scientific Research</i>	2018	Google Scholar	Sambalpur University	----
Impact of soil physico-chemical properties on distribution of earthworm populations across different land use patterns in Southern India	Sankar S.A. and Patnaik A.	The Journal of Basic and Applied Zoology	2018	Google Scholar	Sambalpur University	6
Molecular diversity of <i>Lampitomauritii</i> and <i>Perionyx excavates</i> across North Eastern Ghats of Odisha using RAPD markers	Sankar A.S., Patnaik A. and Agrawal P.	Research & Reviews: A Journal of Life Sciences	2018	Google Scholar	Sambalpur University	-----
Negative effect of phosphogypsum over the physiological activities of earthworm <i>Eiseniafetida</i>	Behera A.K. and Patnaik A.	Applied Ecology and Environmental Research	2018	Google Scholar	Sambalpur University	3
Effect of nickel on some biochemical parameters of tissues like liver, kidney, brain and ovary of the fresh water fish <i>Oreochromismossambicus</i>	Patnaik A., Bhoi S. and Behera R.	International Journal of Research and Analytical Reviews.	2018	Google Scholar	Sambalpur University	-----
Effects of pesticide, Chloropyriphos on an anecic earthworm <i>Lampitomauritii</i>	Patnaik A. and Panda M	International Journal of Agriculture, Environment and Bioresearch	2018	Google Scholar	Sambalpur University	----
Performance Index- A Metric to analyze and evaluate performance of Hypercube Interconnection Networks	K Karthik, Sudarson Jena and T. Venugopal	International Journal of Recent Technology and Engineering	2018	SCOPUS	SUIIT, Burla	
Resource Access from Primary User Security Issues and Challenges	H Srinivas Murthy, Sudarson Jena	Journal of Advance Research in Dynamical & Control Systems	2018	SCOPUS	SUIIT, Burla	
Corelation based feature selection with	Smita Chormunge,	Journal of Electrical systems and	2018		SUIIT, Burla	

clustering for high dimensional data	Sudarson Jena	Information Technology				
Exchanged folded crossed cube: A new interconnection network for parallel computation	K Bhavani, Sudarson Jena	Information Processing Letters	2018	SCIE, SCOPUS	SUIIT, Burla	
Survey of Energy-Efficient Techniques for the Cloud-Integrated Sensor Network	Kalyan Das, Satyabrata Das, Rabi Kumar Darji, and Ananya Mishra	Journal of Sensors	2018	SCIE, SCOPUS	SUIIT, Burla	
A Computationally Efficient Method for High Order Fuzzy Time Series Forecasting	S. Panigrahi, H.S. Behera	Journal of Theoretical and Applied Information Technology	2018	SCOPUS	SUIIT, Burla	
Automatic generation control of two area power system using modified bacteria foraging algorithm	Ambarish Panda	International Journal of Emerging technologies in Engineering research	2018		SUIIT	
Optimal wind thermal co ordination dispatch of power system using Hybrid algorithm	Ambarish Panda	International Journal of Emerging technologies in Engineering research	2018		SUIIT	
Impact of shunt FACTs devices on voltage secure operation of wind integrated power system	Ambarish Panda	International Journal of recent trends in Engineering and Research	2018		SUIIT	
An efficient scenario based optimal generation scheduling of hydro-thermal system incorporating wind power	Ambarish Panda	International Journal of recent trends in Engineering and Research	2018		SUIIT	
A computational framework for wind power integration in stochastic optimal power flow analysis	Ambarish Panda	American International Journal of research in science, technology, engineering and mathematics	2018		SUIIT	
Investigation of voltage stability of wind farm during contingent scenario incorporating FACTS devices	Ambarish Panda, S Upadhyaya	Journal of emerging technologies and innovative research	2018		SUIIT	
Simulation and Analysis of FBG Demux based WDM System using different Grating Length and Data rate, 118(20), 431-437	T. K Panda, N. K Barpanda, K C Patra	International Journal of Pure and Applied Mathematics, ISSN:1311-8080, Refereed, SCOPUS	2018	SCOPUS	SUIIT	
An Intrusion Debugging Technique Implemented in	N. K Barpanda, P S Rath	Journal of Emerging Technologies and Innovative	2018		SUIIT	

Mobile based Network, 5(6), 316-323		Research, ISSN:2349-5162, Referee, UGC Listed				
Operational Analysis of Grid Integrated Wind Energy Conversion System using Genetic Algorithm, 5(6), 471-475	N. K Barpanda, A Panda	Journal of Emerging Technologies and Innovative Research, ISSN:2349-5162, Refereed, UGC Listed	2018		SUIIT	
A Practical Approach to reduce False alarm rate in Network Intrusion Detection System, 5(6), 387-401	N. K Barpanda, P S Rath	Journal of Emerging Technologies and Innovative Research, ISSN:2349-5162, Refereed, UGC Listed	2018		SUIIT	
Fuzzy Reliability Prediction of Fault-Tolerant Multistage Interconnection Networks, 6(1), 1550-1554	N. K Barpanda	International Journal of Research in Electronics and Computer Engg., ISSN:2348-2281, Refereed, UGC Listed (2018)	2018		SUIIT	
Fuzzy Reliability Prediction of Extra link Multistage Interconnection Networks, 6(1), 1546-1549	N. K Barpanda	International Journal of Research in Electronics and Computer Engg. ISSN: 2348-2281, Refereed, UGC Listed (2018)	2018		SUIIT	
Multi-objective Optimal Power dispatch of Power System Incorporating Wind Power, 7(2), 394-400	N. K Barpanda, A Panda	International Journal of Advance Research in Sc. And Engg, ISSN:2319-8354, Refereed, UGC Listed (Old)	2018		SUIIT	
Image File Encryption using Symmetric Key Algorithms, 7(7), 152-156	N. K Barpanda, M Panda, A Panda	International Journal of Advance Research in Sc. And Engg. ISSN:2319-8354, Refereed, UGC Listed (Old)	2018		SUIIT	
Structural confirmation and spectroscopic study of a biomolecule: Norepinephrine	Dr. V. Mukherjee	Spectrochim. ActaA	2018	SCIE	SUIIT	
Conformational study of octopamine in gas phase and effect of hydrochloride	Dr. V. Mukherjee	Spectrochim. ActaA	2019	SCIE	SUIIT	
Molecular modeling and spectroscopic investigation of a neurotransmitter: Epinephrine	Dr. V. Mukherjee	Journal of Molecular Structure	2019	SCIE	SUIIT	
Characterization of host response to	Atul Nag	Journal of Stored Products Research	2019	SCIE	SUIIT	

bruchids (Callosobruchus chinensis and C. maculatus) in 39 genotypes belongs to 12 Cajanus spp. and assessment of molecular diversity inter se						
Identification, classification & grading of fruits using machine learning & computer intelligence: a review	Prabira Kumar Sethy, Abhijeet Mohapatra Amiya Kumar Rath, Santi Kumari Behera	Journal of Ambient Intelligence and Humanized Computing, Springer	2019	SCIE	SUIT	
Image Processing Techniques for diagnosing diseases of Rice Plant: A Review	Prabira Kumar Sethy, Nalini Kanta Barpanda, Amiya Kumar Rath, Santi Kumari Behera	Proceeding of Computer Science, Elsevier	2019	SCOPUS	SUIT	

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
Medicinal Plants in Primary Health Care: A Traditional Knowledge	Rashmi Pramanik & S.C. Murmu	Asian Resonance	2018	49	9	Sambalpur University
Elucidation of the anticancer potential and tubulin isotype-specific interactions of β -sitosterol.	Pradhan M, Suri C, Choudhary S, Naik PK, Lopus M,	<i>Journal of Biomolecular Structure and Dynamics.</i> 36(1):195-208	2018		17	Sambalpur University
Comparative evaluation of anti-angiogenic effects of noscapine derivatives.	Meher RK, Naik MR, Bastia B, Naik PK,	<i>Bioinformation.</i> 14(5): 236-240	2018		3	Sambalpur University
Evaluation of antioxidant capacities and total polyphenols in various edible parts of <i>Capparis spinosa</i> L. collected from trans-Himalayas.	Bhojar MS, Mishra GP, Naik PK, Singh SB,	<i>Defense Life Sciences Journal.</i> 3(2): 140-145	2018		5	Sambalpur University
Computer-assisted drug designing of triazole derivative of noscapine as tubulin-binding anticancer drug	Kumari P, Dixit V, Tiwari A K, Saxena S, Vishvakarma N K, Naik P K, Shukla D	<i>Asian J. Pharmaceut. Clin. Res.</i> 11, 69-75	2018		2	Sambalpur University
Induction of bioactive compounds in a co-cultured strain of <i>Micromonospermae chinospora</i> (DST-4) isolated from secluded	Pattnaik S	<i>Indian Journal of Biotechnology.</i> 17(4): 586-594	2018		0	Sambalpur University

Hirakud dyke soil.						
Derma application of lactic acid based cream of a non pathogenic <i>Kocuria marina</i> (BMKO1) strain against <i>Epidermophyton floccosum</i> (MTCC 613) symptomatic excision mice model.	Dash S S and Pattnaik S,	<i>Journal of Drug Delivery and Therapeutic.</i> 9(1-s):113-120	2019		0	Sambalpur University
Inefficacy of Plasmid Curing Agents to Eliminate Plasmids in a MDR Strain of <i>Citrobacter</i> sp. (BMSCT1).	Padhan M, Pattnaik S,	<i>International Journal of Contemporary Microbiology.</i> Vol.5, No. 1	2019		0	Sambalpur University
Enhanced Dielectric and Ferroelectric Properties of Surface Hydroxylated Na _{0.5} Bi _{0.5} TiO ₃ (NBT) -Poly (vinylidene fluoride) (PVDF) Composites	S. Moharana, S. Sai, R. N. Mahaling	J. Adv. Dielectrics	2018-19		2	Sambalpur University
<i>Single or both site doped BiFeO₃-Which is better candidate for profound electronic device applications</i>	M. K. Mishra, R. N. Mahaling	Chinese J. Phys.	2018-19		3	Sambalpur University
Studies on the synthesis of spiroheterocycles and their derivatives using dimedone as synthetic precursor	P. Majumdar, P. P. Mohanta, S. Sahu, A. K. Behera	Synth. Commun.	2018-19		2	Sambalpur University
<i>Solvent Effect on the Potential Energy Surfaces of the F⁻ + CH₃CH₂Br Reaction</i>	L. Satpathy, P. K. Sahu, P. K. Behera, B. K. Mishra	J. Phys. Chem. A	2018-19			Sambalpur University
<i>Aggregation Behavior of pHLIP in Aqueous Solution at Low Concentrations: A Fluorescence Study.</i>	B. D. Rao, H. Chakraborty, S. Keller, A. Chattopadhyay	J. Fluoresc.	2018-19			Sambalpur University
<i>Thorough understanding of kinetics and mechanism of adsorption of Heavy Metals on a Pyrophyllite Mine Waste based geopolymer</i>	L. Panda, S. S. Rath, D. S. Rao, B. Das, P. K. Misra	J. Mol. Liq.	2018-19			Sambalpur University
<i>Separation and recovery of Sc(III) from Mg-Sc alloy scrap solution through hollow fiber supported liquid membrane (HFLM) process supported by Bi-functional ionic liquid as carrier</i>	P. K. Parhi, S. S. Behera, R. K. Mohapatra, T. R. Sahoo, P. K. Misra. D. Das	Sep. Sci. Tech.	2018-19			Sambalpur University
Perovskite Solar Cells with S,Si-	N. Arora, M. I. Dar, C. Steck, A.	Eur. J. Inorg. Chem.	2018-19			Sambalpur University

Heteropentacene Based Hole Conductor Yield High Open Circuit Voltage of 1.55 V	Mishra, M. Alotaibi, P. Bauerle, S. M. Zakeeruddin, M. Grätzel					
<i>Influence of surface modification and dispersive additives on dielectric and electrical properties of BiFeO₃/poly (methyl methacrylate) composite films</i>	S. Moharana, M. K. Chopkar, R. N. Mahaling	J. Electron. Mater.	2018-19		2	Sambalpur University
<i>Solvent modulated optical tuning for discrimination of Hg²⁺, Zn²⁺ and Cu²⁺ ions by a coumarin-functionalized azine receptor</i>	S. K. Padhan, P. Rana, N. Murmu, B. R. Swain, S. N. Sahu	Ind. J. Chem. B	2018-19			Sambalpur University
<i>Sequential displacement strategy for selective and highly sensitive detection of Zn²⁺, Hg²⁺ and S²⁻ ions: An approach toward a molecular keypad lock</i>	S. K. Padhan, P. Rana, N. Murmu, B. R. Swain, S. N. Sahu	Spectrochimica Acta A	2018-19			Sambalpur University
<i>Enhanced dielectric properties of poly (vinylidene fluoride) composites filled with polystyrene 2% divinyl benzene modified Graphite Nanopowders</i>	S. Moharana, M. K. Mishra, B. Dash, R. N. Mahaling	Mater. Res. Innov.	2018-19		1	Sambalpur University
<i>Membrane Composition Modulates Fusion by Altering Membrane Properties and Fusion Peptide Structure</i>	G. Meher, H. Chakraborty	J. Mem. Biol.	2018-19			Sambalpur University
<i>Green Synthetic Route of Carbon Quantum Dot reinforced Graphene Oxide-Poly (vinylidene fluoride-co-hexafluoropropylene) Nanocomposites: Towards High Dielectric constant and Suppressed Loss</i>	S. Moharana, R. N. Mahaling	J. Appl. Polym. Sci.	2018-19		2	Sambalpur University
<i>Synthesis and Characterization of Novel N-Benzylbenzimidazole Linked Pyrimidine Derivatives as Anticancer Agents</i>	G. K. Padhy, J. Panda, A. K. Behera	Ind. J. Pharma. Edu. Res.	2018-19		4	Sambalpur University
<i>Effect of solvent polarity on the potential energy surface in the</i>	L. Satpathy, S. Sahoo, P. K. Sahu, P. K.	Comput. Theor. Chem.	2018-19			Sambalpur University

S_N2 reaction of $F^- + CH_3Cl$	Behera, B. K. Mishra					
<i>Effect of Localization of Ofloxacin (OFX) on Fluorescence Quenching in Micellar Medium</i>	P. Padhan, P. K. Behera	Int. J. Photochem.	2018-19			Sambalpur University
<i>Recognition of the surface characteristics and electrical properties of a nanocrystalline hydroxyapatite synthesized from Pilaglobosa shells for versatile applications</i>	B. Nayak, P. Misra	Mater. Chem. Phys.	2018-19			Sambalpur University
<i>Substituted benzylideneanilines: A family of solvatochromic probes</i>	P. Suna, S. Panigrahi, P. K. Misra	Spectrochimica Acta A	2018-19			Sambalpur University
Efficient Multiprocessor Scheduling Using Water Cycle Algorithm	Nayak, S.K., Padhy, S.K., Panda, C.S.	Advances in Intelligent Systems and Computing	2018		10	Sambalpur University, Sambalpur, India
Dynamic task scheduling problem based on grey Wolf optimization algorithm	Nayak, S.K., Panda, C.S., Padhy, S.K.	2019 2nd International Conference on Advanced Computational and Communication Paradigms	2019		2	Sambalpur University, Sambalpur, India
An Appraisal of the Permian Palaeobiodiversity and geology of Ib River Basin, eastern coastal area, India. (Published by Elsevier).	Shreerup Goswami, Anju Saxena, Kamal Jeet Singh, Shaila Chandra, Christopher J. Cleal	1. Journal of Asian Earth Sciences, 157: 283-301	2018		15	Department of Earth Sciences, Sambalpur University
Biostratigraphy and floristic evolution of coal swamp floras of a part of Talcher basin, India: a window on a Permian temperate ecosystem	Shreerup Goswami, Das K, Sahoo M, Bal S, Pradhan S, Singh KJ and Saxena A	Arabian Journal of Geosciences 11:524	2018		6	Department of Earth Sciences, Sambalpur University
Palynology of the cyclolobus walkeri bed, gungru formation (late Permian), Spiti valley, northwest Himalaya, India.	Ram-Awatar, Rajni Tewari, Saurabh Gautam, Shreerup Goswami, Michael Brookfield, Deepa Agnihotri and Jeremy Williams	Journal of the Palaeontological Society of India	2018			Department of Earth Sciences, Sambalpur University
Acoustic environment in the bus: an empirical study.	Bijay K. Swain and Shreerup Goswami	Pollution, 4 (2): 327-333	2018			Department of Earth Sciences, Sambalpur University
Climate Indicators:	M. Sahoo, S.	Everyman's	2019			Department of

Foot Prints of Past Climate	Bal, P.K. Mohanty and Shreerup Goswami	Science,53 (6): 357-362				Earth Sciences, Sambalpur University
Late Ordovician Mass Extinction	Sanghamitra Pradhan and Shreerup Goswami.	Everyman's Science, 54 (1): 11-17	2019			Department of Earth Sciences, Sambalpur University
The P3 kimberlite and P4 lamproite, Wajrakarur Kimberlite Field, India: Mineralogy, and major and minor element compositions of olivines as records of their phenocrystic versus xenocrystic origin	Azhar M. Shaikh, Satya P. Kumar, Suresh C. Patel, S. S. Thakur, S. Ravi, D. Behera	Mineralogy and Petrology 112 (2), 609-624	2018		18	Department of Earth Sciences, Sambalpur University
Groundwater Quality Assessment around Baripada Area, Mayurbhanj District, Odisha, India	Nandita Mahanta, , H.K. Sahoo.,P. Barik., P.S. Mahanta	Environmental Geochemistry	2018			Department of Earth Sciences, Sambalpur University
Structural Legacy, Inefficiency, and Weakening Social Securities: A Study of NREGS in a Panchayat in Odisha	R. K. Kumbhar	The Long Road to Social Security	2013		3	Sambalpur University
Socio-Economic Survey of Villages in and around Chilika	K Samal, S Meher, K Meher, L Mishra	Naba Krushna Choudhury Centre for Development Studies, Orissa, Bhubaneswar	1999		21	N.C.D.S., Bhubaneswar
Including agriculture in sustaining economic growth of India	TK Das, L Mishra	The IUP Journal of Applied Economics	2010		3	Sambalpur University
Exchange rate pass-through to domestic prices: The Indian Experience	G Mendali, S Das	Fourth IIFT Conference on empirical issues in international trade and ...	2014		3	Sambalpur University
Falling Sex Ratio and Health Deprivation of Women in India: An Interface between Resources, Culture and Gender	K Sarap, S Das, M Nagla	Sociological Bulletin, Journal of the Indian Sociological Society	2013		2	Sambalpur University
Morbidity, Household Spending and the Burden of Health Care on the UrbanPoor in Orissa	S Das	Journal of Health Management	2012		1	Sambalpur University
Step an Procedure of Educational Research: A Review	J. Khamari	Annals Of Education	2018			Education Department, Sambalpur University
Tools and Technique of data collections	J. Khamari	Annals Of Education	2018			Education Department, Sambalpur

						University
Culture as a means of promoting learning	J. Khamari	Annals Of Education	2018			Education Department, Sambalpur University
Social stratification – concept form and functions	J. Khamari	Annals Of Education	2018			Education Department, Sambalpur University
Reasoning ability as a determinant of teaching aptitude – A study on Teacher Trainee Student of Durg- Bhilai Reason	J. Khamari	Research Journal of Educational Sciences	2018			Education Department, Sambalpur University
Violation of women human right in Odisha – Education and Politics	J.Khamri	International Journal of Applied Research	2019			Education Department, Sambalpur University
Mother Tongue discovered: Translation Culture and Power	A K Mohapatra	Translation Today	2018			Sambalpur University
Unheard voices in the house: A Study of <i>Fire on the Mountain</i>	S Tripathy	SETU	2018			Sambalpur University
Salman Rushdie’s “A dream of Glorious Return”: The Text that Slides...	Aloka Patel	Accepted for Publication in <i>a/b: Auto/Biography Studies</i>	2019			Sambalpur University
Colonising Nature, Colonising Women: Some thoughts on women and landscape in English Literary Texts	Aloka Patel	<i>Women in Text</i>	2018			Sambalpur University
Mapping Self and the Times: Satchidananda Routray’s <i>Uttara Kaksha</i> ”. <i>The Unbilled Hour</i> . Ed. Bijay K Danta	Ashok K Mohapatra	<i>The Unbilled Hour</i> . Ed. Bijay K Danta	2018			Sambalpur University
A Comparative study on alcoholic and non-alcoholic person with RDA in our locality (Kapasaria, West Bengal)	Souvik Tewari, Shweta Parida, S. Das & T.K.Ghosh	The Pharma Innovation Journal	2019			Sambalpur University
Prevention of Chronic Liver Disease by Applying Therapeutic Diet	Souvik Tewari, Shweta Parida, Shimar Mishra & Nirmalya Sinha	The Pharma Innovation Journal	2019			Sambalpur University
Optimization of Nutritious Mulberry blended Herb Juices using Response Surface Methodology	Shweta Parida, Kalpana Rayaguru & Jogeswar Panigrahi	Journal of Agril. Engg. and Food Tech.	2018			Sambalpur University
Diet and Nutritional Status of Lactating Mothers with Special Emphasis on Maternal Risk Factors	Dr. Chandrashree Lenka	International Journal of Applied Home Science	2018			Sambalpur University

Food Habits and Nutritional Profile Of Menopausal Women-A Study in Urban Area	Dr. Chandrashree Lenka	International Journal of Food Science & Nutrition	2018			Sambalpur University
Gotipua–A Traditional Folk Dance of Odisha.	Dr. Chandrashree Lenka	National Journal of Multidisciplinary Research & Development	2018			Sambalpur University
Health Problems of Farm Women in Rural Odisha	Dr. Chandrashree Lenka	International Journal of	2018			Sambalpur University
Attitude of Adolescent Girls towards Marriage and Family Life	Dr. Chandrashree Lenka	Applied Home Science	2018			Sambalpur University
Nutritional Analysis of some Uncommon Vegetables of Odisha.	Dr. Chandrashree Lenka	National Journal of Multidisciplinary Research & Development	2018			Sambalpur University
Role of Rag pickers in Municipal Solid Waste Management-A case study in Bhubaneswar city ,Odisha	Dr. Chandrashree Lenka	International Journal of Food Science & Nutrition	2018			Sambalpur University
A study on job satisfaction of Anganwadi workers in Bargarh District of Odisha.	Dr. Chandrashree Lenka	International Journal of Scientific Research and review	2018			Sambalpur University
Impact of mining on socio economic and health status of indigenous people-A case study of Keonjhar.	Ms Lipsa Dash	International Journal of Applied Social Science	2018			Sambalpur University
Environmental awareness and waste disposal practices of Home makers of Jyotivihar campus of Sambalpur University.	Trupti Pradhan	International Journal of Applied Social Science	2018			Sambalpur University
Conversions to other religions vis-a-vis Conflict of matrimonial law in India: A Socio-Legl Study	Sahu Meena Ketan	Saudi Journal of Al-Qanun:Scholas International Journal of Law, Justice and Justice, Dubai, UAE	2018			Sambalpur University
Party Centric New Democratic Dynasty: A Challenge to Indian Republican Value	Prayas Dansana	International Journal of Applied Social Science	2019			Sambalpur University
Acrimionious Facts about Simultaneous Election in Odisha	Prayas Dansana	International Journal of Applied Social Science	2019			Sambalpur University
The effects of Dimensions of Organizational Structure on Innovation among Academic	CHAMPESWA R MISHRA & BULU MAHARANA	International Journal of Scientific and Research Publications	2019		1	SAMBALPUR UNIVERSITY

Business School Libraries in India: An Empirical Study. 9 (2), 2019, p. 587-589		(ISSN:2250-3153)				
Familiarity of Web 2.0 and its Application in Learning: A Case Study of Seven Indian Universities. 55 (4), 2018, p. 194-203	SABITRI MAJHI & BULU MAHARANA	<i>SRELS Journal of Information Management</i> (ISSN: 0972-2467)	2018		0	SAMBALPUR UNIVERSITY
Perception of Scholarly publishing in the Open Access Routes: S Survey of LIS Professionals in Odisha. Art. No. 2117, 2018.	MAJHI, S, BARAL, S & MAHARANA, B	<i>Library Philosophy & Practice</i> (ISSN: 1522-0222) SCOPUS Indexed	2018		0	SAMBALPUR UNIVERSITY
Impact of Electronic Information resources on users of selected engineering college libraries of Odisha. 7 (2), 2018,p. 30-38	PADHI, A & MAHARANA, B	<i>International Journal of Library & Information Science</i> (ISSN: 2277-3533)	2018		0	SAMBALPUR UNIVERSITY
Information Literacy Skill: An Evaluative Study on the Students of LIS Schools in Odisha. 10 (1), P. 15-33	PATI, B & MAJHI, S	International Journal of Digital Literacy and Digital Competence	2019		1	SAMBALPUR UNIVERSITY
Pragmatic Implications of Embedded Librarianship in Academics: A Review of Eminent Literatures	PATI, B & MAJHI, S	Library Hi tech news. https://doi.org/10.1108/LHTN-08-2018-0052 ISSN (online) : 0741-9058	2019		5	SAMBALPUR UNIVERSITY
Incomplete balancing and Lucas –balancing numbers	Dr. Prasanta Ku. Ray	Mathematical Reports	2018		12	Deptt. Of Mathematics, Sambalpur University
A brief remark on balancing Wilferich primes	Dr. Prasanta Ku. Ray	Mathematica	2018		--	Deptt. Of Mathematics, Sambalpur University
Positive Integer Solutions of Certain Diophantine equations, Proceeding	Dr. Prasanta Ku. Ray	Mathematical Sciences	2018		2	Deptt. Of Mathematics, Sambalpur University
On Lucas balancing Zeta functions	Dr. Prasanta Ku. Ray	Acta et Commentation Universitatis Tartuensis de Mathematica	2018		1	Deptt. Of Mathematics, Sambalpur University
Regularized Products Over balancing and Lucas-balancing numbers	Dr. Prasanta Ku. Ray	<i>Indian Journal of Mathematics</i>	2018		--	Deptt. Of Mathematics, Sambalpur University
Period of balancing numbers modulu product of consecutive lucas-balancing numbers	Dr. Prasanta Ku. Ray	Mathematica	2018		--	Deptt. Of Mathematics, Sambalpur University
On arithmetic functions	Dr. Prasanta Ku.	Article in press,	2018		--	Deptt. Of

of balancing and Lucas balancing numbers	Ray	Mathematical Communications				Mathematics, Sambalpur University
Higher-order identities for the second order sequence Scientific Annals of the Alexandru Ioan University of Iasi (New Series)	Dr. Prasanta Ku. Ray	TOM LZIV	2018		--	Deptt. Of Mathematics, Sambalpur University
On Oscillatory non linear fourth order difference equations with delays	Dr Arun Kumar Tripathy	Mathematica Bohemica	2018		3	Deptt. Of Mathematics, Sambalpur University
Non oscillation criteria for a class of second order neutral delay dynamic equations	Dr Arun Kumar Tripathy	DCDIS: Series A-Mathematical Analysis	2018		--	Deptt. Of Mathematics, Sambalpur University
Oscillation of sub linear second order neutral differential equations via Riccati transformation	Dr Arun Kumar Tripathy	Springer Proceeding in Mathematics & Statistics	2018		--	Deptt. Of Mathematics, Sambalpur University
Hyers-Ulam stability of first order linear difference operators on Banach space	Dr Arun Kumar Tripathy	J.Adv Math.	2018		--	Deptt. Of Mathematics, Sambalpur University
Oscillation of a class of neutral delay dynamic equations of fourth order	Dr Arun Kumar Tripathy	Global Stoch.Anal	2018		3	Deptt. Of Mathematics, Sambalpur University
Oscillation of unforced impulsive neutral delay differential equations of first order	Dr Arun Kumar Tripathy	Commu.Appl.Anal	2018		--	Deptt. Of Mathematics, Sambalpur University
Sufficient conditions for oscillation and nonoscillation of a class of second order neutral differential equations	Dr Arun Kumar Tripathy	Adv.Dyn.Syst.Appl.	2018		2	Deptt. Of Mathematics, Sambalpur University
Oscillation criteria for three dimensional linear difference systems	Dr Arun Kumar Tripathy	Appl.Anal.Dis.Math	2018		--	Deptt. Of Mathematics, Sambalpur University
On Oscillatory Fourth Order Non Linear Neutral Differential Equation-III	Dr Arun Kumar Tripathy	Mathematica Slovaca	2018		4	Deptt. Of Mathematics, Sambalpur University
Third order differential subordination and differential superordination results for analytic functions involving the Srivastav-Attiya operator	Dr P.Gochhayat	App Math Inf Sci12 No.3	2018		12	Deptt. Of Mathematics, Sambalpur University
Certain Sub-Classes of harmonic multivalent functions involving Integral Operator	Dr P.Gochhayat	Int.J.Open Problems in Complex Analysis	2018		--	Deptt. Of Mathematics, Sambalpur University
On certain harmonic mappings with same	Dr P.Gochhayat	Montsh.Math.doi 10.1007/00605-	2018		--	Deptt. Of Mathematics,

fixed co-efficients		018-1228-1				Sambalpur University
A subclass of harmonic univalent mapping with restricted analytic part	Dr P.Gochhayat	Comm.Korean Math.Soc	2018		1	Deptt. Of Mathematics, Sambalpur University
Hybrid collocation methods for eigen value problem of a compact integral operator with weakly singular kernel	Dr(Mrs)B.L.Pani grahi	<i>Applied Mathematics and Computation</i>	2018		2	Deptt. Of Mathematics, Sambalpur University
Discrete Legendre collocation methods for Fredholm Hammerstein integral equation with singular kernel	Dr(Mrs)B.L.Pani grahi	<i>CCIS Series conference Proceeding</i>	2018			
Error analysis of Jacobi spectral collection methods for Fredholm Hammersit Integral equations with weakly singular kernel	Dr(Mrs)B.L.Pani grahi	International Journal of Computer Mathematica	2018			Deptt. Of Mathematics, Sambalpur University
Legendary spectral projection methods for Hammerluin integral equations with weakly singular Kernel	Dr(Mrs)B.L.Pani grahi	<i>International Journal of Applied and computational mathematics</i>	2018			Deptt. Of Mathematics, Sambalpur University
Incomplete balancing and Lucas –balancing numbers	Dr. Prasanta Ku. Ray	Mathematical Reports	2018		9	Sambalpur University
A brief remark on balancing Wilferich primes	Dr. Prasanta Ku. Ray	Mathematica	2018		6	Sambalpur University
Positive Integer Solutions of Certain Diophantine equations, Proceeding	Dr. Prasanta Ku. Ray	Proceeding of Mathematical Sciences	2018		26	Sambalpur University
On Lucas balancing Zeta functions	Dr. Prasanta Ku. Ray	Acta et Commentation Universitatis Tartuens de Mathematica	2018		6	Sambalpur University
Regularized Products Over balancing and Lucas-balancing numbers	Dr. Prasanta Ku. Ray	<i>Indian Journal of Mathematics</i>	2018		9	Sambalpur University
Period of balancing numbers modulu product of consecutive lucas-balancing numbers	Dr. Prasanta Ku. Ray	Mathematica	2018		6	Sambalpur University
On arithmetic functions of balancing and Lucas balancing numbers	Dr. Prasanta Ku. Ray	Mathematical Communications	2018		18	Sambalpur University
Higher-order identities for the second order sequence	Dr. Prasanta Ku. Ray	Scientific Annals of the Alexandru loan Cuza University (New Series)	2018			Sambalpur University
On Oscillatory non linear fourth order	Dr Arun Kumar Tripathy	Mathematica Bohemica	2018		11	Sambalpur University

difference equations with delays						
Non oscillation criteria for a class of second order neutral delay dynamic equations	Dr Arun Kumar Tripathy	DCDIS: Series A-Mathematical Analysis	2018		--	Sambalpur University
Oscillation of sub linear second order neutral differential equations via Riccati transformation	Dr Arun Kumar Tripathy	Springer Proceeding in Mathematics & Statistics	2018		26	Sambalpur University
Hyers-Ulam stability of first order linear difference operators on Banach space	Dr Arun Kumar Tripathy	J.Adv Math.	2018		--	Sambalpur University
Oscillation of a class of neutral delay dynamic equations of fourth order	Dr Arun Kumar Tripathy	Global Stoch.Anal	2018		10	Sambalpur University
Oscillation of unforced impulsive neutral delay differential equations of first order	Dr Arun Kumar Tripathy	Commu.Appl.Anal	2018		19	Sambalpur University
Sufficient conditions for oscillation and nonoscillation of a class of second order neutral differential equations	Dr Arun Kumar Tripathy	Adv.Dyn.Syst.Appl.	2018		1	Sambalpur University
Oscillation criteria for three dimensional linear difference systems	Dr Arun Kumar Tripathy	Appl.Anal.Dis.Math	2018		26	Sambalpur University
On Oscillatory Fourth Order Non Linear Neutral Differential Equation-III	Dr Arun Kumar Tripathy	Mathematica Slovaca	2018		23	Sambalpur University
Third order differential subordination and differential superordination results for analytic functions involving the Srivastav-Attiya operator	Dr P.Gochhayat	App Math Inf Sci12 No.3	2018		38	Sambalpur University
Certain Sub-Classes of harmonic multivalent functions involving Integral Operator	Dr P.Gochhayat	Int.J.Open Problems in Complex Analysis	2018		--	Sambalpur University
On certain harmonic mappings with same fixed co-efficients	Dr P.Gochhayat	Montsh.Math.doi 10.1007/00605-018-1228-1	2018		37	Sambalpur University
A subclass of harmonic univalent mapping with restricted analytic part	Dr P.Gochhayat	Comm.Korean Math.Soc	2018		15	Sambalpur University
Hybrid collocation methods for eigen value problem of a compact integral operator with weekly singular kernel	Dr(Mrs)B.L.Pani grahi	<i>Applied Mathematics and Computation</i>	2018			Sambalpur University
Discrete Legendre collocation methods for Fredholm Hamerstein integral equation with	Dr(Mrs)B.L.Pani grahi	<i>CCIS Series conference Proceeding</i>	2018			Sambalpur University

singular kernel						
Error analysis of Jacobi spectral collection methods for Fredholm Hammersit Integral equations with weakly singular kernel	Dr(Mrs)B.L.Pani grahi	<i>International Journal of Computer Mathematica</i>	2018			Sambalpur University
Legendary spectral projection methods for Hammerluin integral equations with weakly singular Kernel	Dr(Mrs)B.L.Pani grahi	<i>International Journal of Applied and computational mathematics</i>	2018			Sambalpur University
Justification of e-Governance in Education: A Multicriteria Decision Approach	D K Mahalik	International Journal of Applied Industrial Engineering, ISSN:	2018			Sambalpur University
Measuring the performance of banks using combination of AHP-VIKOR analysis	D K Mahalik	International Journal of Business, Management and Allied Sciences (IJBMAS)	2018			Sambalpur University
Evaluating and Ranking the Performance of Banks Using Vikor Analysis	D K Mahalik		2018			Sambalpur University
Bulk viscosity of the neutron star matter under the influence of direct URCA reactions	B.Behera, T.R. Routray, X. Vinas, D.N. Basu, M. Centelles S. P. Pattanaik and K. Madhuri	Proceeding of DAE international symposium on Nuclear Physics	2018			Sambalpur University
ADDENDUM: Influence of Nuclear matter equation of states on the g-mode instability using the finite range simple effective interaction.	B.Behera, T.R. Routray, X. Vinas, D.N. Basu, M. Centelles S. P. Pattanaik and K. Madhuri	J. Physics. G: Nucl. Part. Phys	2018			Sambalpur University
Influence of interaction density calculated by thermo-dynamical method and Dynamical method on crystal fraction of moment of inertia of neutron star using R_s and G_s sky interactive.	T.R.Routray, D.N. Basu, S.P. Pattanaik and K. Madhuri	Proceeding of DAE international symposium on Nuclear Physics	2018			Sambalpur University
Role of Nuclear matter saturation properties in the predictions of finite nuclei.	T.R.Routray, X.Vinas, P. Bano, M. Centelles, S.P. Pattanaik and L.M. Robledo	Proceeding of DAE international symposium on Nuclear Physics	2018			Sambalpur University
Intensity of Gravitational wave emitted by pulsar neutron stars due to g-mode oscillation.	T.R. Routray, X. Vinas, D.N. Basu, S.P. Pattnaik, M. Centelles, K.	Proceeding of DAE international symposium on Nuclear Physics	2018			Sambalpur University

	Madhuri and B. Behera					
Dielectric, impedance and modulus spectroscopy of BaBi ₂ Nb ₂ O ₉	Sunanda K. Patri, P. L. Deepti, R. N. P. Choudhary and Banarji Behera	Journal of Electroceramics	2018			Sambalpur University
Effect on Electrical Properties of Gd-Doped BiFeO ₃ -PbZrO ₃	S. K. Satpathy, N. K. Mohanty, A. K. Behera, B. Behera	Iranian Journal of Science and Technology, Transactions A: Science	2018			Sambalpur University
Dielectric, Electrical and Conduction Mechanism Study of 0.6BiFeO ₃ -0.4PbTiO ₃	Truptimayee Sahu and Banarji Behera,	Transactions on Electrical and Electronic Materials	2018		3	Sambalpur University
Electrical properties of Y-type hexaferrite	Bibhuti B. Sahu, S.K. Patri, Banarji Behera and B. Maharana	Journal of Advanced Dielectrics	2018		1	Sambalpur University
Role of Gd-doping in conduction mechanism of BFO-PZO nanocrystalline composites: Experimental and first-principles studies	Ambika Ray, Tanmoy Basu, Banarji Behera, Mathan Kumar, Ranjit Thapa, P. Nayak	Journal of Alloys and Compounds	2018		13	Sambalpur University
Modification of structural and dielectric properties of polycrystalline Gd-doped BFO-PZO	Ambika Ray, Banarji Behera, Tanmoy Basu, Saumitra Vajandar, Santosh Kumar Satpathy	Journal of Advanced Dielectrics	2018		2	Sambalpur University
Fabrication, electrical and magnetic properties of 0.7(BiGd _x Fe _{1-x} O ₃)-0.3(PbTiO ₃) ceramics	Krishna Auromun, Sugato Hajra, Banarji Behera and R.N.P. Choudhary	Journal of the Chinese Advanced Materials Society (JCAMS)	2018		1	Sambalpur University
Structural and electrical properties of 0.7(BiSm _x Fe _{1-x} O ₃)-0.3(PbTiO ₃) composites	Krishna Auromun, Sugato Hajra, R. N. P. Choudhury, Banarji Behera	Applied Physics A	2019		8	Sambalpur University
Influence of NaNbO ₃ on the structural, optical and dielectric properties of 0.05(K _{0.5} Bi _{0.5} TiO ₃)-0.95(NaNbO ₃) composites ceramics	S. K. Mohanty, Hari Sankar Mohanty, Banarji Behera, Debi P. Ojha, S. Behera, Piyush R. Das	Journal of Materials Science: Materials in Electronics	2019		3	Sambalpur University
Dielectric, electrical and magnetic study of rare-earth-doped bismuth ferrite lead titanate	Truptimayee Sahu & Banarji Behera	Applied Physics A	2,019		2	Sambalpur University
<i>Calculating charged particle observables using modified Wood Saxon model in HIJING for U+U collisions at √</i>	S.K. Tripathy, M. Younus, Z. Naik, P.K. Sahu	Nuclear Physics A	2018			Sambalpur University

$s_{NN} = 193 \text{ GeV}$						
J Selection Rule and Reduced Matrix Elements of K-Isomer Decay: K=6+ Isomer Decay of ^{170}Hf to the Ground Band	B.B. Sahu ¹ , Z. Naik , † and C.R. Praharaj ³	Proceeding of DAE international symposium on Nuclear Physics	2018			Sambalpur University
Structural Description, spectral analysis and reactivity descriptors of Nematogens containing Cyano group- A comparative quantum chemical computational approach.	Seema Prasad, D.P.Ojha	Mol. Cryst. Liq. Cryst. UK.	2018		0	Sambalpur University
Molecular Structure, Vibrational Spectroscopic and chemical reactivity of Nematogenic p-n-Alkylbenzoic acids- A comparative computational analysis.	Seema Prasad, D.P.Ojha	Mol. Cryst. Liq. Cryst. UK.	2018		0	Sambalpur University
Molecular Structure, Vibrational Spectroscopic, Electronic Properties and chemical stability of p-n-Alkylbenzoic acids(nBAC)- A comparison using DFT and HF methods.	Seema Prasad, D.P.Ojha	Acta Physica Polonica, Poland- A	2018			Sambalpur University
Geometric Structures, Vibrational Spectroscopic and global reactivity descriptors of Nematogens containing strong polar group - A comparative analysis using DFT , HF and MP2 methods.	Seema Prasad, D.P.Ojha	Mol. Cryst. Liq. Cryst. UK.	2018		2	Sambalpur University
Optimized molecular geometries, Vibrational Spectra and Frontier molecular Orbital of Fluorinated liquid crystals-A comparative Quantum Chemical Calculations.	Seema Prasad, D.P.Ojha	Mol. Cryst. Liq. Cryst. UK.	2018		1	Sambalpur University
Structural and Electrical properties of Bi_3TiVO_9 Ferroelectric Ceramics	Prabhasini Gupta, Rajib Padhee, P. K. Mahapatra, R. N. P. Choudhary and Satyabati Das	<i>Journal of Alloys and Compounds</i>	2018		25	Sambalpur University
Effect of Gd on dielectric and piezoelectric properties of lead zirconate	S. C. Panigrahi, Piyush R. Das, R. Padhee and R. N. P Choudhary	<i>Ferroelectrics</i>	2018			Sambalpur University

titanate ferroelectric ceramics						
Dielectric Relaxation Behavior of Exfoliated Graphite Nanoplatelets Filled Ethylene Vinyl Acetate Copolymer and Ethylene Propylene Diene Terpolymer Blend	Nimai Charan Nayak, Bikash Kumar Dash, Bichitrananda Parida, and R. Padhee	<i>Journal of Materials Science: Materials in Electronics</i>	2018			Sambalpur University
Dielectric and Impedance Spectroscopy of Bi(Ca _{0.5} Ti _{0.5})O ₃ Ceramic	Varsa Purohit, Rajib Padhee and R. N. P. Choudhary	<i>Ceramics International</i>	2018		50	Sambalpur University
Structural and Electrical Properties of Bi(Mg _{0.5} Ti _{0.5})O ₃ Ceramic	Varsa Purohit, Rajib Padhee and R. N. P. Choudhary	<i>Journal of Materials Science: Materials in Electronics</i>	2018		22	Sambalpur University
Ferroelectric and Optical properties of 'Ba' doped new double Perovskites	B. N. Parida, Niranjana Panda, R. Padhee and R. K. Parida	<i>Phase Transitions</i>	2018			Sambalpur University
Structural and Electrical characteristics of Bi ₂ YTiVO ₉ Ceramic	Prabhasini Gupta, Rajib Padhee, P. K. Mahapatra, R. N. P. Choudhary	<i>Materials Research Express</i>	2018			Sambalpur University
Nanosensing of pesticides by zinc oxide quantum dot: an optical and electrochemical approach for the detection of pesticides in water	Dibakar Sahoo, Abhishek Mandal, Tapas Mitra, Kaushik Chakraborty, MunmunBardhan, Anjan Kumar Dasgupta	Journal of agricultural and food chemistry	2018		49	Sambalpur University
Sensing of Different Human Telomeric G-Quadruplex DNA Topologies by Natural Alkaloid Allocryptopine Using Spectroscopic Techniques	P Mandal, D Sahoo, S Saha, J Chowdhury	The Journal of Physical Chemistry B	2018		4	Sambalpur University
Probing the reverse micelle environment with a cationic dye by varying oil and water content of micelles	Abbas Rahdar, Mousa Aliahmad, Adeleh Moradi Kor, Dibakar Sahoo	<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i>	2019		8	Sambalpur University
An Inventory Production Policy for a Single Parameter Weibull Deteriorating Item With Exponential Demand and Shortages	Sahu, S.	International Journal of Scientific Research in Computer Science Applications and Management Studies,	2018			Sambalpur University
A Deteriorating Inventory Model With	Sahu, S.	International Journal of	2018			Sambalpur University

Linear, Exponential Demand With Shortage,		Research in Humanities, Arts and Literature				
Retail-Chain Multi-Item Optimization: A Mixed Integer Non-Linear (MINL) Heuristic Approach,	Pattnaik, M.	Singaporean Journal of Business Economics and Management Studies (SJBEM),	2018			Sambalpur University
Impact Of Publicity Effort And Variable Ordering Cost In Multi-Product Order Quantity Model Of Units Lost Sales Due To Deterioration,.	Pattnaik, M.	Log Forum,	2018			Sambalpur University
On the use of super population model in two occasion successive sampling under non-response.	International Journal of Mathematics & Statistics,	Khetan, M., Singh, G. N. and Verma, P. (2018):	2018			Sambalpur University
Stock Market Growth Link in Asian Emerging Countries: Evidence from Granger Causality and Co-integration Tests,	Advances in Growth Curve and Structural Equation Modeling,	Monalisha Pattnaik, P. Gahan	2018			Sambalpur University
Generalized exponential methods of imputation in estimation of current population mean in two-occasion successive sampling.	International Journal of Statistics & Economics	Khetan, M., Singh, G. N. and Verma, P.	2018			Sambalpur University
Moisture sorption isotherms and thermodynamic properties of sorbed water of chironji (<i>Buchanania lanzan Spreng.</i>) kernels at different storage conditions	Sahu, S.N., Tiwari, A., Sahu, J.K., Naik, S.N., Baitharu, I. and Kariali, E	<i>Journal of Food Measurement and Characterization.</i>	2018		4	Sambalpur University
Erythrocyte cAMP in Determining Frequency of Acute Pain Episodes in Sickle Cell Disease Patients from Odisha State, India	Jit BP, Mohanty PK, Pradhan A, Purohit P, Das K, Patel S, Meher S, Sinha S, Mohanty JR, Behera RK and Das P	<i>Hemoglobin</i>	2019		3	Sambalpur University
Sputum proteomics Reveals a shift in Vitamin D-binding protein and Antimicrobial protein Axis in tuberculosis patients	Bishwal SC, Das MK, Badireddy VK, Dabral D, Das A, Mahapatra AR, Sahu S, Malakar D, Singh II, Mazumdar H, Patgiri SJ, Deka T, Kapfo W, Liegise K, Kupa	<i>Scientific Reports</i>	2019		13	Sambalpur University

	R, Debnath S, Bhowmik R, Debnath R, Behera RK, Pillai MG, Deuri P, Nath R, Khalo KP, Sing WA, Pandit B, Das A, Bhattacharya S, Behera D, Saikia L, Khamo V and Nanda RK					
Association of fetal hemoglobin level with frequency of acute pain episodes in sickle cell disease (HbS-only phenotype) patients, Diseases,	Jit BP, Mohanty PK, Purohit P, Das K, Patel S, Meher S, Mohanty JR, Sinha S, Behera RK and DasP	<i>Blood Cells, Molecules</i>	2019		5	Sambalpur University
Comparison of soil characteristics and carbon content of contrastingly different moist-mixed deciduous and evergreen mangrove forest in Odisha, India	Pattnayak S, Kumar M, Sahu SC, Dhal NK and Behera RK	<i>Geology, Ecology, and Landscapes</i>	2019		3	Sambalpur University
Effect of nickel on some biochemical parameters of tissues like liver, kidney, brain and ovary of the fresh water fish <i>Oreochromismoss ambicus</i>	Patnaik A., Bhoi S. and Behera R.	<i>International Journal of Research and Analytical Reviews</i>	2018		---	Sambalpur University
Negative effect of phosphogypsum over the physiological activities of earthworm <i>Eisenia fetida</i> ,	Behera A.K. and Patnaik A. (2018)	<i>Applied Ecology and Environmental Research</i>	2018		3	Sambalpur University
Molecular diversity of <i>Lampitomauritii</i> and <i>Perionyx excavates</i> across North Eastern Ghats of Odisha using RAPD markers,	Sankar A.S., Patnaik A. and Agrawal P.	<i>Research & Reviews: A Journal of Life Sciences</i>			---	Sambalpur University
Setal-epidermal, muscular and enzymatic anomalies induced by certain agrochemicals in the earthworm <i>Eudrilus eugeniae</i> (Kinberg)	Samal S, Mishra, C S K, Sahoo S	<i>Environ Sci Pollut Res</i>	2019		11	Sambalpur University
Evaluating the effect of monocrotophos and glyphosate on microbial population and certain important exoenzyme activities in soil	Samal S, Sahoo S Mishra, C S K	<i>J. Environ. Biol</i>	2019		---	Sambalpur University
Setal anomalies in the tropical earthworms	Samal S, Samal R, Mishra, C S	<i>Environmental Technology &</i>	2019		1	Sambalpur University

<i>Drawida willsi</i> and <i>Lampito mauritii</i> exposed to elevated concentrations of certain agrochemicals: an electron micrographic and molecular docking approach,	K, Sahoo S	<i>Innovation</i>				
A Study on Socio-economic aspects of Betel Vine Cultivation of Bhogarai area of Balasore District, Odisha.	Patra B, Pradhan SN	<i>Journal of Experimental Science</i>	2018		---	Sambalpur University
Eco-physiological Evaluation of the Betel Vine Varieties Cultivated in Bhogarai area of Balasore District, Odisha, India for disease management and increasing crop yield.	Patra B, Pradhan SN, Das MT & Dey SK	<i>International Journal of Recent Scientific Research</i>	2018		----	Sambalpur University
Impact of soil physico-chemical properties on distribution of earthworm populations across different land use patterns in Southern India	Sankar S.A. and Patnaik A.	The Journal of Basic and Applied Zoology	2018		6	Sambalpur University
Molecular diversity of <i>Lampitomaauritii</i> and <i>Perionyx excavates</i> across North Eastern Ghats of Odisha using RAPD markers	Sankar A.S., Patnaik A. and Agrawal P.	Research & Reviews: A Journal of Life Sciences	2018		-----	Sambalpur University
Negative effect of phosphogypsum over the physiological activities of earthworm <i>Eiseniafetida</i>	Behera A.K. and Patnaik A.	Applied Ecology and Environmental Research	2018		3	Sambalpur University
Effect of nickel on some biochemical parameters of tissues like liver, kidney, brain and ovary of the fresh water fish <i>Oreochromismossanbic us</i>	Patnaik A., Bhoi S. and Behera R.	International Journal of Research and Analytical Reviews.	2018		-----	Sambalpur University
Effects of pesticide, Chloropyriphos on an anecic earthworm <i>Lampitomaauritii</i>	Patnaik A. and Panda M	International Journal of Agriculture, Environment and Bioresearch	2018		----	Sambalpur University
Performance Index- A Metric to analyze and evaluate performance of Hypercube Interconnection Networks	K Karthik, Sudarson Jena and T. Venugopal	International Journal of Recent Technology and Engineering	2018			SUIT, Burla

Resource Access from Primary User Security Issues and Challenges	H Srinivas Murthy, Sudarson Jena	Journal of Advance Research in Dynamical & Control Systems	2018			SUIT, Burla
Corelation based feature selection with clustering for high dimensional data	Smita Chormunge, Sudarson Jena	Journal of Electrical systems and Information Technology	2018			SUIT, Burla
Exchanged folded crossed cube: A new interconnection network for parallel computation	K Bhavani, Sudarson Jena	Information Processing Letters	2018			SUIT, Burla
Survey of Energy-Efficient Techniques for the Cloud-Integrated Sensor Network	Kalyan Das, Satyabrata Das, Rabi Kumar Darji, and Ananya Mishra	Journal of Sensors	2018			SUIT, Burla
A Computationally Efficient Method for High Order Fuzzy Time Series Forecasting	S. Panigrahi, H.S. Behera	Journal of Theoretical and Applied Information Technology	2018			SUIT, Burla
Automatic generation control of two area power system using modified bacteria foraging algorithm	Ambarish Panda	International Journal of Emerging technologies in Engineering research	2018			SUIT
Optimal wind thermal co ordination dispatch of power system using Hybrid algorithm	Ambarish Panda	International Journal of Emerging technologies in Engineering research	2018			SUIT
Impact of shunt FACTS devices on voltage secure operation of wind integrated power system	Ambarish Panda	International Journal of recent trends in Engineering and Research	2018			SUIT
An efficient scenario based optimal generation scheduling of hydro-thermal system incorporating wind power	Ambarish Panda	International Journal of recent trends in Engineering and Research	2018			SUIT
A computational framework for wind power integration in stochastic optimal power flow analysis	Ambarish Panda	American International Journal of research in science, technology, engineering and mathematics	2018			SUIT
Investigation of voltage stability of wind farm during contingent scenario incorporating FACTS devices	Ambarish Panda, S Upadhyaya	Journal of emerging technologies and innovative research	2018			SUIT
Simulation and Analysis of FBG	T. K Panda, N. K Barpanda, K C	International Journal of Pure	2018			SUIT

Demux based WDM System using different Grating Length and Data rate, 118(20), 431-437	Patra	and Applied Mathematics, ISSN:1311-8080, Refereed, SCOPUS				
An Intrusion Debugging Technique Implemented in Mobile based Network, 5(6), 316-323	N. K Barpanda, P S Rath	Journal of Emerging Technologies and Innovative Research, ISSN:2349-5162, Referee, UGC Listed	2018			SUIT
Operational Analysis of Grid Integrated Wind Energy Conversion System using Genetic Algorithm, 5(6), 471-475	N. K Barpanda, A Panda	Journal of Emerging Technologies and Innovative Research, ISSN:2349-5162, Refereed, UGC Listed	2018			SUIT
A Practical Approach to reduce False alarm rate in Network Intrusion Detection System, 5(6), 387-401	N. K Barpanda, P S Rath	Journal of Emerging Technologies and Innovative Research, ISSN:2349-5162, Refereed, UGC Listed	2018			SUIT
Fuzzy Reliability Prediction of Fault-Tolerant Multistage Interconnection Networks, 6(1), 1550-1554	N. K Barpanda	International Journal of Research in Electronics and Computer Engg., ISSN:2348-2281, Refereed, UGC Listed (2018)	2018			SUIT
Fuzzy Reliability Prediction of Extra link Multistage Interconnection Networks, 6(1), 1546-1549	N. K Barpanda	International Journal of Research in Electronics and Computer Engg. ISSN: 2348-2281, Refereed, UGC Listed (2018)	2018			SUIT
Multi-objective Optimal Power dispatch of Power System Incorporating Wind Power, 7(2), 394-400	N. K Barpanda, A Panda	International Journal of Advance Research in Sc. And Engg, ISSN:2319-8354, Refereed, UGC Listed (Old)	2018			SUIT
Structural confirmation and spectroscopic study of a biomolecule: Norepinephrine	Dr. V. Mukherjee	Spectrochim. ActaA	2018			SUIT
Conformational study of octopamine in gas phase and effect of hydrochloride	Dr. V. Mukherjee	Spectrochim. ActaA	2019			SUIT
Molecular modeling	Dr. V.	Journal of	2019			SUIT

and spectroscopic investigation of a neurotransmitter: Epinephrine	Mukherjee	Molecular Structure				
Characterization of host response to bruchids (Callosobruchus chinensis and C. maculatus) in 39 genotypes belongs to 12 Cajanus spp. and assessment of molecular diversity inter se	Atul Nag	Journal of Stored Products Research	2019			SUIT
Identification, classification & grading of fruits using machine learning & computer intelligence: a review	Prabira Kumar Sethy, Abhijeet Mohapatra Amiya Kumar Rath, Santi Kumari Behera	Journal of Ambient Intelligence and Humanized Computing, Springer	2019			SUIT
Image Processing Techniques for diagnosing diseases of Rice Plant: A Review	Prabira Kumar Sethy, Nalini Kanta Barpanda, Amiya Kumar Rath, Santi Kumari Behera	Proceeding of Computer Science, Elsevier	2019			SUIT

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	119	22	NIL
Presented papers	52	125	18	NIL
Resource Persons	11	63	28	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)
S.K.Sahu, S.K. Pattanayak M.R. Mahananda		MCL, Jagruti Vihar	Rs.2.20 lakh
S.K. Sahu, S.K. Pattanayak M.R. Mahananda		MCL, Jagruti Vihar	Rs.1.99 lakh

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
Swachh Bharat	NSS Unit, Sambalpur University	10	72

Abhiyan and Tree Plantation			
-----------------------------	--	--	--

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
Swachh Bharat Abhiyan	Best Service Award	NSS Unit, Sambalpur University	1

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	Sambalpur Municipal Corporation	Cleaning the Hirakud Dam Area	12	45

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
Paper Published with teacher of IIT Bombay (Prof. Suresh Ch. Patel)	Dr. D. Behera	NA	2018-19
Paper Published with Scientists of Birbal Sahni Institute of Palaeosciences, Lucknow (Drs. Ram Awtar, Rajni Tewari, Anju Saxena, Kamal Jeet Singh, Shaila Chandra)	Dr. Shreerup Goswami	NA	2018-19
Paper Published with Dr. Christopher J. Cleal of Department of Natural Sciences, National Museum Wales, Cardiff, UK	Dr. Shreerup Goswami	NA	2018-19
Paper Published with JEREMY WILLIAMS of DEPARTMENT OF GEOLOGY, KENT STATE UNIVERSITY, KENT,	Dr. Shreerup Goswami	NA	2018-19

OHIO, USA			
Paper Published with Michael Brookfield Of School For Environment, University Of Massachusetts at Boston, 100 Morrissey Blvd, Boston, MA 02125, USA	Dr. Shreerup Goswami	NA	2018-19
Research activity in Rice grain filling and submergence tolerance in rice	Dr. E. Kariali	Dr B.B. Sahu, NIT, Rourkela	3 years
Collaborative Research	Prof. P. K. Naik	DST, Govt. Odisha, DBT, Govt. of Odisha	3 Years
Collaborative Research	Dr. H. Chakraborty	SERB-DST, DST, Govt. of Odisha	3 Years
Collaborative Research	Dr. Amaresh Mishra	SERI-DST, Govt. of India	3 Years
Paper Published with teacher of IIT Bombay (Prof. Suresh Ch. Patel)	Dr. D. Behera	NA	2018-19

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	Comparative analysis of silicon and iron in CP Coke using XRF and AAS method	Vedanta Limited,Jharsuguda	02.06.2018-28.07.2018	Alpana Sahu 17MSAC01
Project work	Detail study on Potentiometric Titration	Nalco,Damanjodi,Koraput	17.05.2018-16.07.2018	Chinmayee Dash 17MSAC02
Project work	Facile synthesis of silver Nanocubes for pesticide removal	Jain University,Bangalore	17.05.2018-16.07.2018	Divyajyoti Sahu 17MSAC03
Project work	Synthesis and characterisation of α - β ,unsaturated ketones	NCL,Pune	May,2018-July,2018	Jagnyesh Sathpathy 17MSAC04
Project work	Removal of congo -red	Nit,Rourkela	17.05.2018-16.07.2018	Madhusmita Behera 17MSAC05

	using red mud			
Project work	Synthesis of gold nano structure for catalytic degradation of methylene group	Jain University ,Bangalore	17.05.2018-16.07.2018	Manbit Subhadarsi Panda 17MSAC06
Project work	Synthesis of tellurium nanowire and metal telluride for supercapacitors	Jain University ,Bangalore	17.05.2018-16.07.2018	Prangya Bhol 17MSAC07
Project work	Spectrochemical analysis of iron and silicon in aluminium using optical emission spectrometer	Vedanta Limited,Jharsuguda	02.06.2018-28.07.2018	Preetirani Bhoi 17MSAC09
Project work	Reduction of ketone to alcohol using decaborane	Revenshaw University	17.05.2018-16.07.2018	Rajashree Priyadarsini Mishra 17MSAC10
Project work	Extraction of titanium dioxide from red mud by acidic leaching	Nit, Rourkela	02.06.2018-28.07.2018	Roshan Kumar Tripathy 17MSAC11
Project work	Comparative Analysis of iron and silicon in alumina using XRF and UV-Visible Spectrophotometer	Vedanta Limited, Jharsuguda	02.06.2018-28.07.2018	Samikshya Sahu 17MSAC12
Project work	Comparative analysis of iron and silicon in coal tar pitch using XRF and weight chemical method	Vedanta Limited,Jharsuguda	02.06.2018-28.07.2018	Sikha Barik 17MSAC13
Project work	Synthesis of tripodal adenine derivatives	Niser,Bhubaneswar	17.05.2018-16.07.2018	Sonali palai 17MSAC14
Project work	Synthesis of palladium nanocubes and its applications for Suzuki coupling reaction	Jain University ,Bangalore	17.05.2018-16.07.2018	Swarnalata Swain 17MSAC15

Internship	M.Sc. 4 th Semester Project	MCL IB-Valley, Brajraj Nagar, Jharsuguda	Jan-2019 to May-2019	Adarsha Kumar Sahu
Internship	M.Sc. 4 th Semester Project	iEaonTech Sambalpur	Jan-2019 to May-2019	Ankita Panda
Internship	M.Sc. 4 th Semester Project	NIC Sambalpur	Jan-2019 to May-2019	Barsha Padhan
Internship	M.Sc. 4 th Semester Project	NIC Sambalpur	Jan-2019 to May-2019	Subhashree Sarangi
Internship	M.Sc. 4 th Semester Project	MCL IB-Valley, Brajrajnagar, Jharsuguda	Jan-2019 to May-2019	Bimal Kumar Bandichhor
Internship	M.Sc. 4 th Semester Project	WAYINDIA Bhubaneswar	Jan-2019 to May-2019	Bimalini Meher
Internship	M.Sc. 4 th Semester Project	WAYINDIA Bhubaneswar	Jan-2019 to May-2019	Binodini Majhi
Internship	M.Sc. 4 th Semester Project	NIC Bhubaneswar	Jan-2019 to May-2019	Debadatta Naik
Internship	M.Sc. 4 th Semester Project	NIC Bhubaneswar	Jan-2019 to May-2019	Geetanjali Bhoi
Internship	M.Sc. 4 th Semester Project	East Coat Railway Bhubaneswar	Jan-2019 to May-2019	Moti Ranjan Tandi
Internship	M.Sc. 4 th Semester Project	iEaonTech Sambalpur	Jan-2019 to May-2019	Mrunalini Mishra
Internship	M.Sc. 4 th Semester Project	Contify Bhubaneswar	Jan-2019 to May-2019	Namita Sahu
Internship	M.Sc. 4 th Semester Project	East Coat Railway Bhubaneswar	Jan-2019 to May-2019	Nirmal Chandra Meher
Internship	M.Sc. 4 th Semester Project	Contify Bhubaneswar	Jan-2019 to May-2019	Prabhathi Suna
Internship	M.Sc. 4 th Semester Project	WAYINDIA Bhubaneswar	Jan-2019 to May-2019	Radharanee Panda
Internship	M.Sc. 4 th Semester Project	MCL Anand Vihar Burla	Jan-2019 to May-2019	Rajalaxmi Padhi
Internship	M.Sc. 4 th Semester Project	iEaonTech Sambalpur	Jan-2019 to May-2019	Sambhu Padhan
Internship	M.Sc. 4 th Semester Project	WAYINDIA Bhubaneswar	Jan-2019 to May-2019	Shibangi Panda
Internship	M.Sc. 4 th	WAYINDIA Bhubaneswar	Jan-2019 to May-2019	Shreema Shanti Subhalaxmi

	Semester Project			Guru
Internship	M.Sc. 4 th Semester Project	East Coat Railway Bhubaneswar	Jan-2019 to May-2019	Soubhagya Ranjan Sahu
Internship	M.Sc. 4 th Semester Project	East Coat Railway Bhubaneswar	Jan-2019 to May-2019	Sridhar Suna
Internship	M.Sc. 4 th Semester Project	Interface Software Services Bhubaneswar	Jan-2019 to May-2019	Subha Laxmi Nayak
Internship	M.Sc. 4 th Semester Project	NIC SI Bhubaneswar	Jan-2019 to May-2019	Subhasmita Behera
Internship	M.Sc. 4 th Semester Project	East Coat Railway Bhubaneswar	Jan-2019 to May-2019	Sudeepa Nayak
Internship	M.Sc. 4 th Semester Project	NIC SI Bhubaneswar	Jan-2019 to May-2019	Sudhamayee Mishra
Internship	M.Sc. 4 th Semester Project	WAYINDIA Bhubaneswar	Jan-2019 to May-2019	Sushree Rojina Pradhan
Internship	M.Sc. 4 th Semester Project	MCL Anand Vihar Burla	Jan-2019 to May-2019	Ankita Purohit
Internship	M.Sc. 4 th Semester Project	WAYINDIA Bhubaneswar	Jan-2019 to May-2019	Dipali Bhoi
Internship	M.Sc. 4 th Semester Project	WAYINDIA Bhubaneswar	Jan-2019 to May-2019	Monalisha Bej
Internship	M.Sc. 4 th Semester Project	Interface Software Services Bhubaneswar	Jan-2019 to May-2019	Maitriplavan Beura
Internship	M.Sc. 4 th Semester Project	MCL Anand Vihar Burla	Jan-2019 to May-2019	Shreeta Singh
Internship	M.Sc. 4 th Semester Project	East Coat Railway Bhubaneswar	Jan-2019 to May-2019	Swagatika Satpathy
Internship	M.Sc. 4 th Semester Project	NIC SI Bhubaneswar	Jan-2019 to May-2019	Rashmita Bag
Internship	M.Sc. 4 th Semester Project	iEaonTech Sambalpur	Jan-2019 to May-2019	Tuni Kuber
Training	Lower Gondwana Palynological Training	Birbal Sahni Institute of Palaeosciences, 53 University Road, Lucknow, 226007 (UP)	11.02.2019-20.04.2019	Sanghamitra Pradhan, JRF
Project Work & Research	PROJECT WORK	Dr. Sunita Adhikari, Department of Food Technology & Bio chemical Engineering, Jadabpur University, Kolkata, 700032	01.08.2017 to 31.03.2018	2

Project Work & Research	PROJECT WORK	Dr. P.D Diwedi, Food Toxicology Division, Indian Institution of Toxicology Research Center, CSIR, Lucknow, U.P.	01.08.2017 to 31.03.2018	2
Project Work & Research	PROJECT WORK	G. Hari Kumar, Officer-A, National Center for Cell Science, Pune, Maharastra, 411007	10.07.2017 to 31.03.2018	1
Project Work & Research	PROJECT WORK	HOD, Department of Pediatric, VIMSAR, Burla	01.02.2018 to 31.05.2018	1
Project Work & Research	PROJECT WORK	Dr. Sanghamitra Pati, Director ICMR-RMRC, Department of Health Research, Chandrasekharapur, Bbsr, 751023	01.02.2018 to 31.05.2018	1
Project Work & Research	PROJECT WORK	Dr. R.P. Singh, CSIR-CFTRI, Mysure, 570020	01.02.2018 to 31.05.2018	2
Project Work & Research	PROJECT WORK	Swati Mohapatra, Senior Dietitian, AMRI Hospital, Bhubaneswar	01.02.2018 to 31.05.2018	2
Project Work & Research	PROJECT WORK	D.S.N Murthy, Foods and Inns Limited, Vellore Road, Chittoor, Andhrapradesh, 517132	01.02.2018 to 31.05.2018	6
Project Work & Research	PROJECT WORK	Nirmalya Kumar Sinha, Department of Nutrition, RNLK Women's College, Midnapore, West Bengal, 721102	01.02.2018 to 31.05.2018	4
Internship	Graduate Trainee	IIT, Bombay	29/01/2019 to 28/01/2020	Kiran Pradhan
Internship	Graduate Trainee	RMRC, Bhubaneswar	13/08/2018 to 14/08/2019	Sonali Srivastaba
Internship	Graduate Trainee	NISER, Bhubaneswar	05/12/2018 to 04/12/2019	Chitta Ranjan Bagarty
Internship	Graduate Trainee	Central University of Odisha, Koraput	01/08/18 to 31/07/2019	Shibashis Pradhan
Internship	Graduate Trainee	Central University of Odisha, Koraput	01/08/2018 to 31/07/2019	Darshana Dash
Internship	Graduate Trainee	Central University of Odisha, Koraput	01/08/2018 to 31/07/2019	Shantimoni Hansda
Internship	Graduate Trainee	NIV, Pune	01/11/2018 to 31/10/2019	Madhusmita Dash
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 CGCRI, Kolkata VSSUT, Burla Central University, Rajasthan UNESP, Ilha Solteira, Sao Paulo, Brazil		Dr. B. Behera

Book Chapter Publication	Advances in Growth Curve and Structural Equation Modeling	ISI KOLKATA	2018	Dr. Monalisha Pattnaik & Prof. Ratan Dasgupta (Editor)
Research Guide; Ph.D.	Optimization in Multi-item Supply Chain Models: An Empirical Analysis with Heuristic Approach	North Orissa University; Baripada	2018-2021	Dr. Monalisha Pattnaik (Guide); Dr. Jibendu Kumar Mantri (Guide) and Kailash Chandra Nayak (Scholar)

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 Centre for Management of Coastal Ecosystem, ICZMP under State Pollution Control board	09.03.2018	1. Collaborative Research on Mangrooves of Odisha Coast, 2. Joint Research Publications, 3. Soil and Water Sample Analysis of Bitarkanika and Hirakud Command Area	Teachers: 03, Research Scholars: 05
Sambalpur University and Gothe University, Frankfurt, Germany	12.03.2018	Exchange Programme	Student and Faculty
Sambalpur University and Odisha State Open University	10.06.2018	Soft skill and value added course to the PG students	All students

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
1097 Lakh	1097 Lakh

4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added
Campus area	670 Acre	0
Class rooms	73	2
Laboratories	64	4
Seminar Halls	17	1
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.	76	20
Value of the equipment purchased during the year (Rs. in Lakhs)	243.1	122.95
Others	55.94	0

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	
4.2.1 Library Services:									
		Existing		Newly added		Total			
		No.	Value	No.	Value	No.	Value		
							Value		
Text Books		146717	4413052	2482	2219406	149199	6632458		
Reference Books		46455	2000000	798	763466	47253	2763466		
e-Books		NIL	0	344	2000000		2000000		
Journals									
e-Journals		INFLIBNET, PROQUEST							
Digital Database		3							
CD & Video		460							
Library automation									
Weeding (Hard & Soft)									
Others (Thesis)		2622							
4.2.2 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 Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width (MGBPS)	Others
Exist ing	695	454	375	--	--	35	151	1 GBPS	55
Adde d	111	86	45	--	--	04	20		--
Total	806	540	420	--	--	39	171		55
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
19,20,000.00	19,20,000.00	Rs. 1,29,73,000.00	Rs. 1,29,73,000.00

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)

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.

<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	905	Rs. 17339593.00
b) International	NIL	NIL	NIL

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

2018-19	Civil Service/Competitive Examination Coaching	150	NIL	20	20
---------	--	-----	-----	----	----

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,	535	137	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	428	111

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
2018-2019	1	MA/ MSc. Anthropology	Department of Anthropology, SU	Department of Anthropology, SU	M.Phil
2018-2019	18	M. Sc. BT& BI	Dept. of BT and BI	Sambalpur University, Berhampur University	M. Phil, PhD, Project Fellow,
2018-2019	13	M.Sc. Chemistry	School of	IIT Madras, IISER	Job, M.Phil., Ph.D.

			Chemistry	Berhampur, NIT Rourkela, NIT Roorkee, IIT Goa, IIT Kharagpur, IIT Guwahati, TRL, Jain University	
2018-2019	1	M.Sc. Computer Science	Computer Science & Applications	Sambalpur University Institute of Information Technology	M.Phil Computer Science
2018-2019	1	M.Sc. Computer Science	Computer Science & Applications	Sambalpur University	M.Phil Computer Science
2018-2019	11	M.Sc. Applied Geology	Department of Earth Sciences, SU	IIT Kharagpur, NISER, Sambalpur University, Utkal University	Ph.D., M.Phil.,
2018-2019	2	M.Phil. Applied Geology	Department of Earth Sciences, SU	Sambalpur University	Ph.D.
2018-2019	15	MA in Economics	P.G. Dept. Of Economics	CU Hyderabad:02; CUGujrat:01; Rav.Univ:01;GMU :05; SU:06	Ph.D.:02;, M.Phil: 13
2018-2019	10	M A and MPhil	English	Sambalpur University, GM University	M Phil and PhD
2018-2019	6	M.Sc. Food Science, M.Tech. Food Science and Technology	Department of Food Science and Technology	SHUATS, ALLHABAD SAMBALPUR UNIVERSITY TEZPUR UNIVERSITY GNTU, PUNJAB ICT, MUMBAI	Ph.D.
2018-2019	8	MA in Hindi	Department of Hindi	GM UNIV, RAVENSHAW UNIV, BHED CUTTACK	M.Phil., B.Ed.
2018-2019	6	M.Phil in Law	Department of Law	North Odisha University, Sambalpur University	Ph.D.
2018-2019	5	MA in Library and Information Science	DLIS, SU	DLIS, SU	M.Phil/Ph.D
2018-2019	8	M.Sc in Mathematics	Department of Mathematics	Sambalpur University, Central University, Rajasthan	M.Phil., Ph.D.
2018-2019	3	MPA	SPA	Utkal Uni. Of Culture	M.Phil
2018-2019	14	M.Sc. Physics	School of Physics	IITs, NIT, IOP	Ph.D.
2018-2019	7	MA in Political Science	Pol.Sc. and Pub. Admn	Sambalpur University	M.Phil
2018-2019	2	MA in Sociology	Sociology	Sambalpur University	MPhil
2018-19	4	MA/MSc. from Department of Statistics; Sambalpur University	Statistics	DSambalpur University, G.M. University	MPhil & Ph.D.
2018-2019	3	M. Sc/ B.Tech	SUIT	SUIT, Burla,	M. Phil, M. Tech.

			VSSUT, IIT Trichy
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	97	OR0902501986, OR0951800017, 59002512, 306676, 59000292, 59001092, 74013695, 58002579 , 59000156, 58001335, 5900080, DL0102501923, OR0901500225, TL0101500341, OR0901500184, OR0401501500, OR0901500062, OR0901500185, OR0901500060, OR0901500092, 59000575, OR04503581, OR0950900074, OR09503161, OR095201483, OR0902502558, OR0902502040, OR0905202532, TN1205200548, 59003803, 58014797, OR0902501795, TN0103502814, 59002704, 59002796, 59002772, 59002820, 48009091, GJ0101500919, 59002011, 59002796, 38006166, 403729, 403532, 190510355450, 190520422943, 190510493225, 190510390185, 190520145047, 190510245426, 190510493686, 190510698901, 190510369210, 190511085066, 19051045085, 190510483107, 190510198403, 190520164641, 190510591732, 190510355450, 190520422943, 19051045085, 190510198403, 190520164641, OR0905201180, 58005851, 59001002, OR09502644, 18MFPU04, OR0902502447, OR0905202953, 171021464, 58014289, OR04501652, OR04507057, OR09501822, OR09502787, OR0905203048, OR0905202996, 1121742746, 104976, 110384, 116213, 105746, 112781, OR0916200284, OR0916200285, OR0916200251, OR0916200619, 106175, 105530, 106037, 308702, 309078, 309343	
SET			
SLET			
GATE	34	XL20S36030351, CS19S36035493, GG19S46034324, G19S46047071, GG19S46047168, GG19S46047132, GG19S46047117, GG19S46047127, XL18S16059172, MA18S26055054, EE19S66045453, CY18S43027119, CY18S43029136, CY18843008032, CY18S43028607, CY18S46042173, CY18S43027049, CY18S43027223, CY18S46054106, CY19S16048053, CY19S16034212, CY19S16036095, CY19S16035316, CY19S16046344, CY19S16048127, CY19S16048123, CY19S16047074, CY19S16034214, PH18S46043044, PH19S46048170, XL18S16054030, XL19S26046029, XL19S26037207, XL18S16054098	
GMAT			
CAT			
GRE			
TOFEL			
Civil Services			
State Government Services	15	OPSC Roll No- 107, OPSC Roll No-142, Sl.No.6- Dr. G. Mendali, Sl.No.15- A. Begum, Sl No. 16. S. Banoo, Sl. No. 28- U.K. Gupta, Sl.No.29-M. Guru, Sl. No.44-K. Das, Sl. No.-52-T. Nag, Sl.No.58-S. Laya, Sl. No. 59-A. Tete, Sl.No.61-R.Kanhar, Sl. No.68- S. Dung Dung, Sl.No.69-H. Baa, Sudam Bhoi (OES-1)	
Any Other			

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year		
Activity	Level	Participants
Sports	University Level	55
Sports	National level	03
Cultural Events	University Level	127
Cultural Events	National Level	18

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

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.

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

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:

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 Postgraduate, 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
2018	Prof. P. K. Ray	Integers Conference-2018	NA	Rs70,000/- & \$600/-
2018-2019	Dr. Himanshu Sekhar Mishra	Post Independent India a historical analysis	NA	Rs. 7500

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 participants (Non-teaching staff)
	Extramular Lecture by Prof. K. R. Srivastan, Retd. Professor of IIT Kanpur		26.02.2019	150	Nil
	Two-week workshop on Cloud Computing		08.01.2018 to 20.01.2018	3	Nil
	Two week TEQIP-II sponsored FDP on 'Modeling, analysis and control of microgrid' organized by Department of EE, VSSUT, Burla		25.06.20218 to 07.07.2018	1	Nil
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)	
Workshop on General Semantics		1		December 19, 2018 to December 22, 2018	
Refresher Course in Mathematics and Statistics		1		27th July -16th August,2018	
Orientation Programme		9		2018-19	
6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):					
Teaching			Non-teaching		
Permanent		Fulltime	Permanent		Fulltime
0		12	0		10
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)				
<p>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:</p> <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)				
<p>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.</p> <p>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.</p> <p>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</p>				

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
2018-2019	One Day Seminar on Emerging Trends in Quality Education and Research in University	17/08/2018	1 day (17/08/2018)	60
2018-2019	One Day Seminar on Emerging Trends in Quality Education and Research in University	08/09/2018	1 day (08/09/2018)	78

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)		
<ul style="list-style-type: none"> • 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
<p>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.</p>
<p style="text-align: center;">Weblink: http://www.suniv.ac.in</p> <p>BEST PRACTICE- 1: Award of the “Gangadhar National Award for Poetry” to the poets of all-India stature</p> <p>Objectives of the Practice</p> <p>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.</p> <p>Sambalpur University has been honouring distinguished poets of national stature with the Gangadhar National Award for their works in English and other Indian languages.</p> <p>The Context</p> <p>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, <i>Swabhaba Kabi</i> 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”.</p> <p>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 until 2013, twenty-two 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.</p> <p>The Practice</p> <p>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.</p> <p>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</p>

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.

Evidence of Success

As evident from the profile of the awardees, who hail from different regions of India, the Gangadhar National Award has helped Sambalpur University make a name for itself in the circles of poets, literary critics, readers of poetry and intellectuals at the national level. Similarly, Gangadhar Meher is now a well-known name on the literary scene of India. In various brochures and encyclopaedias featuring Indian poetry at the national and international level Gangadhar Meher finds a prominent place. His poetry in English translation has appeared in various journals and poetry anthologies in English. Gangadhar Meher’s poetry is also taught in the comparative Indian literature courses of various universities, including Visva-bharati, Shantiniketan and the University of Delhi.

Problems Encountered and Resources Required

The University does not face any problem with regard to arranging resources for the Gangadhar National Award. There is specific budgetary provision to meet the cost of the award money, *angavastra* and preparation of the citation, travel and hospitality of the Gangadhar awardee. The budgetary allocation is revised from time to time to meet the rising cost of holding the Award Ceremony.

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 for the last 12 years. In view of the fact that manuscripts document different aspects of Odisha’s 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 following objectives:

- To conduct curative conservation of manuscripts in the Department of History ,
- different other institutions and private repositories
- To impart training to students and researchers in the conservation of manuscripts
- To arrange workshop on preventive conservation
- To organise campaigns for spreading awareness amongst the public of the importance
- of manuscript conservation
- 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 endeavoured 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.

Problems Encountered and Resources Required

The MCC, P.G. Department of History, has a plan to preserve and conserve the manuscripts in the digitized form, although there is resource crunch to build the infrastructure for this. A separate building and a well equipped laboratory are to be part of such infrastructure.

The MCC also need more number of personnel to expand its volume and range of activities.

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

- Modification of Ph. D. regulation by incorporating the modified guidelines of UGC.
- Timely completion of academic session according to academic calendar.
- To collaborate and sign MOUs with reputed National and International Institutions/organizations
- To organize sensitization programmes to motivate faculties to apply for extramural research findings from various funding agencies.
- Augmentation of the stock of Central library.
- Augmentation of the 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 interval.
- To initiate Non-Credit Courses in collaboration with Odisha State Open University to inculcate soft skill among the students for the enhancement of employability.
- Suggested to install fire extinguishers in the departments, administrative buildings, and hostels.
- Proposed to publish a book to showcase the cultural heritage of Western Odisha.
- Strengthen the Alumni associations
- Up-gradation of research laboratories
- Organization of National and International Seminar/ Workshops/ Conferences in the PG Departments.
- Enhancement of the quality and quantity of research publication in National and International Journals.
- Plantation of trees in the University campus

Signature:

Behera
21/8/21

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

Signature

[Signature]
21/08/2021

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