

**The Annual Quality Assurance Report (AQAR) of the IQAC**  
**(For Universities)**  
**(For Academic Year 2018-19, Sikkim University)**

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**

<b><u>Data of the Institution</u></b> <b>(data may be captured from IIQA)</b>		
<b>1.</b>	<b>Name of the Institution:</b>	Sikkim University
	<b>Name of the Head of the institution :</b>	Prof. Jyoti Prakash Tamang (13 October 2017-10 October 2018) Officiating Vice-Chancellor Prof. Avinash Khare (10 October 2018 onwards) Vice-Chancellor
	<b>Designation:</b>	Vice-Chancellor
	<b>Does the institution function from own campus:</b>	No
	<b>Phone no./Alternate phone no:</b>	03592-251403/251073

	<b>Mobile no:</b>	+91-9873428154/+91-80013855345
	<b>Address:</b>	6 <sup>th</sup> Mile Tadong, Samdur, East Sikkim
	<b>City/Town:</b>	Gangtok
	<b>State/UT:</b>	Sikkim
	<b>Pin Code:</b>	737102
<b>2.</b>	<b>Institutional status:</b>	
	<b>University: State/Central/Deemed/Private:(Tick appropriate)</b>	Central
	<b>Type of Institution: Co-education/Men/Women</b>	Co-education
	<b>Location : Rural/Semi-urban/Urban:</b>	Urban
	<b>Financial Status: Centrally funded/state funded/Private(please specify)</b>	Centrally funded
	<b>Name of the IQAC Coordinator/Director:</b>	Dr. Subir Mukhopadhyay
	<b>Phone no. /Alternate phone no. :</b>	
	<b>Mobile:</b>	+91-9547605900
	<b>IQAC e-mail address:</b>	smukhopadhyay@cus.ac.in

	<b>Alternate Email address:</b>	vc@cus.ac.in; registrar@cus.ac.in
<b>3.</b>	<b>Website address: Web-link of the AQAR: (Previous Academic Year):</b>	Yes <a href="https://cus.ac.in/index.php/en/aqar-sikkim-university-e">https://cus.ac.in/index.php/en/aqar-sikkim-university-e</a>
<b>4.</b>	<b>Whether Academic Calendar prepared during the year? Yes/No</b>	Yes <a href="https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Academic%20Calendar%202018-19.pdf">https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Academic%20Calendar%202018-19.pdf</a>

### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1st	B	2.60	2015	from: 25.06.2015 to: 24.06.2020

### 6. Date of Establishment of IQAC: 22 February, 2013

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/IQAC%20Committee%202018-19.pdf>

### 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
IQAC Coordination Meeting	6 <sup>th</sup> September, 2018 3:30 PM	16

IQAC Coordination Meeting	12 <sup>th</sup> September, 2018 3:30 PM	8
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**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
Department of Zoology	DST FIST	DST	2018	88,80,000
Department of Physics	DST FIST	DST	2018	2,26,00,000
Prof. Jyoti Prakash Tamang Department of Microbiology	DBT-AIST International Centre for Translational and Environmental Research (DAICENTER)	DBT	2018	42,79,996

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

**10. No. of IQAC meetings held during the year: 1**

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

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/IQAC%20Minutes%202018-19.pdf>

**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)**

- Preparation of Annual Quality Assurance Report to be submitted to NAAC
- Participation in NIRF
- Updation of API criteria based PBAS proforma
- Workshop on quality related themes
- Feedback from Students
- Webpage for Internal Quality Assurance Cell

**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**

<b>Plan of Action</b>	<b>Achievements/Outcomes</b>
Preparation of Annual Quality Assurance Report to be submitted to NAAC	Annual Quality Assurance Report (AQAR) for the Academic Year 2016-17 and 2017-18
Participation in NIRF	Submission of data for NIRF Ranking 2019-20
Updation of API criteria based PBAS proforma	API criteria based PBAS proforma need to be updated in accordance with the latest UGC notification dated 18 July 2018

	<p>The Cell has constituted a Committees to prepare the updated API criteria based PBAS proforma for promotion under career advancement scheme.</p>
<p>Workshop on quality related themes</p> <ol style="list-style-type: none"> <li>1. Workshop in collaboration with Academic Departments, such as on Research Methodology. Resource persons would be experts on relevant subjects and target audience will be teachers and research scholars from relevant subjects.</li> <li>2. Workshop on general quality related themes for the University. Resource persons can be brought from outside. Target audience will be teachers from University as well as affiliated colleges. IQAC may consider organising one such workshop every semester.</li> <li>3. Workshop on quality related themes for affiliated colleges. IQAC may organise one workshop for all the affiliated colleges from East and one for the same from west and south. Colleges will organise the</li> </ol>	<p>The workshops were planned but could not be organised in this year. It was planned to be held in the next year.-</p>

<p>workshops and make necessary arrangements. Resource person will be from among members of IQAC of the University.</p>	
<p>Feedback from Students</p> <ol style="list-style-type: none"> <li>1. Director IQAC will make necessary modification of present proforma of student feedback.</li> <li>2. Student feedback will be collected in the middle of every semester.</li> <li>3. An online portal will be prepared and it will remain accessible for 10 days. Students in every department will be informed and asked to submit their feedback within that stipulated time. Necessary technical arrangement will be made under the guidance of Dr. Debashis Chowdhury, Controller of Examinations.</li> </ol>	<p>As per the plan, an online portal has been introduced on the Sikkim University website for this purpose.</p>
<p>Webpage for Internal Quality Assurance Cell</p>	<p>A Committee was constituted to design the webpage.</p>

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

No

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

No

**17. Does the Institution have Management Information System?**

No

**16. Whether institutional data submitted to AISHE:**

Yes

Year: 2010

Date of Submission: 2010

**17. Does the Institution have Management Information System?**

No



**Part-B**

<b>CRITERION I – CURRICULAR ASPECTS</b>		
<b>1.1 Curriculum Design and Development</b>		
<b>1.1.1 Programmes for which syllabus revision was carried out during the Academic year</b>		
<b>Name of programme</b>	<b>Programme Code</b>	<b>Dates of revision</b>
<b>School of Languages and Literature</b>		
MA (Department of Lepcha)	MA Lepcha	16 November 2018
MA (Department of Limbu)	MA Limbu	16 November 2018
<b>School of Life Sciences</b>		
M Phil (Department of Microbiology)	MPhil Microbiology	12 June 2018
<b>School of Physical Sciences</b>		
M Sc (Department of Mathematics)	MSc Mathematics	12 June 2018
M Phil (Department of Mathematics)	MPhil Mathematics	12 June 2018
Ph D (Department of Mathematics)	PhD Mathematics	12 June 2018
<b>School of Professionals Studies</b>		
B Ed (Department of Education)	BEd Education	12 June 2018
M Ed (Department of Education)	MEd Education	12 June 2018
MTTM (Department of Tourism)	MTTM	12 June 2018
MA (Department of Mass Communication)	MA Mass Communication	16 November 2018
<b>School of Social Sciences</b>		
BA-LLB (Department of Law)	BA-LLB	12 June 2018

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Academic%20Council%20Minutes%202018-19.pdf>

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<b>1.1.2 Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year</b>			
<b>Programme with Code</b>	<b>Date of Introduction</b>	<b>Course with Code</b>	<b>Date of Introduction</b>
NIL			

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<b>1.2 Academic Flexibility</b>	
<b>1.2.1 New programmes/courses introduced during the Academic year</b>	
<b>Programme/Course</b>	<b>Date of Introduction</b>
<b>School of Languages and Literature</b>	
<b>Department of Hindi</b>	
BA course in Hindi	12 June 2018
Introduction of a Certificate Course (6 months) in Hindi for non- Hindi speakers	12 June 2018
<b>Common to all UG courses</b>	
Nepali as a Foundation paper UG course	12 June 2018

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Academic%20Council%20Minutes%202018-19.pdf>

**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	M Phil	PhD	Date of implementation of CBCS / Elective Course System	UG	PG	M Phil	PhD
<b>School of Human Sciences</b>									
<b>Department of Anthropology</b>									
MA/MSc Anthropology		*			13 11 2013 25 05 2015 31 05 2017		*		
MPhil Anthropology			*		25 05 2015 31 05 2017			*	
PhD Anthropology				*	25 05 2015 31 05 2017				*
<b>Department of Geography</b>									
MA/MSc Geography		*			02 06 2010 13 11 2013		*		
MPhil Geography			*		19 05 2012 13 11 2013			*	
PhD Geography				*	19 05 2012 13 11 2013				*
<b>Department of Psychology</b>									
BA/ BSc Psychology	*				31 05 2017	*			
MA/ MSc Psychology		*			31 05 2017 31 05 2017		*		
MPhil Psychology			*		13 11 2013			*	
PhD Psychology				*	13 11 2013 31 05 2017				*

<b>School of Languages and Literature</b>									
<b>Department of Bhutia</b>									
MA Bhutia		*			03 06 2016		*		
<b>Department of Chinese</b>									
BA Chinese	*				31 05 2017	*			
MA Chinese		*			31 05 2017		*		
PhD Chinese				*	11 11 2016				*
<b>Department of Hindi</b>									
BA Hindi	*				03 06 2016 12 06 2018	*			
MA Hindi		*			19 05 2012 13 11 2013 31 05 2017		*		
MPhil Hindi			*		25 05 2015			*	
PhD Hindi				*					*
<b>Department of Nepali</b>									
MA Nepali		*			28 03 2011 13 11 2013 31 05 2017		*		
MPhil Nepali			*		31 05 2017			*	
PhD Nepali				*	31 05 2017				*
<b>Department of English</b>									
MA English		*			13 11 2013 13 06 2014 31 05 2017		*		
MPhil English			*		13 06 2014 31 05 2017			*	
PhD English				*	13 06 2014 31 05 2017				*
MA Lepcha		*			03 06 2016 16 11 2018		*		
MA Limboo		*			03 06 2016		*		

					16 11 2018				
<b>School of Life Sciences</b>									
<b>Department of Botany</b>									
MSc Botany		*			13 11 2013 31 05 2017		*		
PhD Botany				*	13 11 2013 31 05 2017				*
<b>Department of Horticulture</b>									
BSc Horticulture	*				13 11 2013 11 11 2016	*			
MSc Horticulture		*			31 05 2017		*		
PhD Horticulture				*	11 11 2016 31 05 2017				*
<b>Department of Microbiology</b>									
MSc Microbiology		*			17 10 2008 05 11 2014 31 05 2017		*		
MPhil Microbiology				*	02 06 2010 12 06 2018			*	
MPhil Industrial Microbiology				*	25 06 2019			*	
PhD Industrial Microbiology				*	25 06 2019			*	
PhD Microbiology				*	02 06 2010				*
<b>Department of Zoology</b>									
MSc Zoology		*			13 11 2013 13 06 2014 31 05 2017		*		
MPhil Zoology				*	25 05 2015				

PhD Zoology				*	25 05 2015 31 05 2017				*
<b>School of Physical Sciences</b>									
<b>Department of Chemistry</b>									
MSc Chemistry		*			02 06 2010 13 06 2014 31 05 2017		*		
MPhil Chemistry			*		19 05 2012 13 11 2013 31 05 2017			*	
PhD Chemistry				*	19 05 2012 13 11 2013 31 05 2017				*
<b>Department of Computer Application</b>									
MCA Computer Application		*			26 10 2015 31 05 2017		*		
PhD Computer Application				*	03 06 2016 31 05 2017				*
<b>Department of Geology</b>									
BSc Geology	*				31 05 2017	*			
MSc Geology		*			31 05 2017		*		
MPhil Geology			*		26 10 2015			*	
PhD Geology				*	26 10 2015				*
<b>Department of Mathematics</b>									
MSc Mathematics		*			13 11 2013 31 05 2017		*		
MPhil Mathematics			*		31 05 2017			*	
PhD Mathematics				*	31 05 2017				*
<b>Department of Physics</b>									

MSc Physics		*			13 06 2014 31 05 2017		*		
MPhil Physics			*		13 11 2013 31 05 2017			*	
PhD Physics				*	13 11 2013 31 05 2017				*
<b>School of Professionals Studies</b>									
<b>Department of Commerce</b>									
MCom Commerce		*			13 11 2013 03 06 2016		*		
MPhil Commerce			*		13 11 2013				
PhD Commerce				*	13 11 2013				*
<b>Department of Education</b>									
MA Education		*			13 11 2013 13 06 2014 31 05 2017		*		
MEd Education		*			25 05 2015 12 06 2018		*		
MPhil Education			*		25 05 2015			*	
PhD Education				*	25 05 2015				*
<b>Department of Management</b>									
MBA Management		*			13 11 2013 13 06 2014 31 05 2017		*		
PhD Management				*	13 06 2014 31 05 2017				*
<b>Department of Mass Communication</b>									



MA Mass Communication		*			02 06 2010 13 11 2013 25 05 2015 31 05 2017 16 11 2018		*		
MPhil Mass Communication			*		19 05 2012 13 11 2013 31 05 2017 25 05 2015			*	
PhD Mass Communication				*	19 05 2012 13 11 2013 31 05 2017 25 05 2015				*
<b>Department of Music</b>									
BPA Music	*				28 03 2011 31 05 2017	*			
MPA Music		*			31 05 2017		*		
PhD Music				*	11 11 2016				*
<b>Department of Tourism</b>									
MTTM Tourism		*			11 11 2016 12 06 2018		*		
MPhil Tourism			*		11 11 2016			*	
PhD Tourism				*					*
<b>School of Social Sciences</b>									
<b>Department of Economics</b>									
MA Economics		*			02 06 2010 11 11 2016		*		
MPhil Economics			*		19 05 2012 11 11 2016			*	
PhD Economics				*	19 05 2012 11 11 2016				*
<b>Department of History</b>									

MA History		*			13 11 2013 13 06 2014 03 06 2016 31 05 2017		*		
MPhil History			*		03 06 2016 31 05 2017			*	
PhD History				*	03 06 2016 31 05 2017				*
<b>Department of International Relations</b>									
MA International Relations		*			17 10 2008 13 11 2013 31 05 2017		*		
MPhil International Relations			*		02 06 2010 13 11 2013 31 05 2017			*	
PhD International Relations				*	02 06 2010 13 11 2013 31 05 2017				
<b>Department of Law</b>									
LLM Law		*			26 10 2015 03 06 2016 31 05 2017		*		
MPhil Law			*		25 05 2015 31 05 2017			*	
PhD Law				*	25 05 2015 31 05 2017				*
<b>Department of Peace and Conflict Studies and Management</b>									
MA Peace and Conflict Studies and Management		*			17 10 2008 31 05 2017		*		
MPhil Peace and Conflict			*		02 06 2010 13 11 2013			*	

Studies and Management					31 05 2017				
PhD Peace and Conflict Studies and Management				*	02 06 2010 13 11 2013 31 05 2017				*
<b>Department of Political Science</b>									
MA Political Science		*			13 11 2013 13 06 2014 31 05 2017		*		
MPhil Political Science			*		13 06 2014 31 05 2017			*	
PhD Political Science				*	13 06 2014 31 05 2017				*
<b>Department of Sociology</b>									
MA Sociology		*			17 10 2008 13 06 2014 31 05 2017		*		
MPhil Sociology			*		02 06 2010 13 11 2013 31 05 2017			*	
PhD Sociology				*	02 06 2010 13 11 2013 31 05 2017				

\* denotes the level of the respective program

# these 3 programmes were introduced in this academic year along with CBCS implementation

**Note:** For the sake of completeness, date of implementation of CBCS and subsequent revision(s) of all other courses are included in the table above.

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Academic%20Council%20Minutes%202018-19.pdf>

<b>1.3 Curriculum Enrichment</b>		
<b>1.3.1 Value-added courses imparting transferable and life skills offered during the year</b>		
<b>Value added courses</b>	<b>Date of introduction</b>	<b>Number of students enrolled</b>
<b>Department of Hindi</b>		
Introduction of Certificate Course in Hindi (6 months) in Hindi for non-Hindi Speakers	12 June 2018	Awaiting enrolment

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Academic%20Council%20Minutes%202018-19.pdf>

<b>1.3.2 Field Projects / Internships under taken during the year</b>	
<b>Project/Programme Title</b>	<b>No. of students enrolled for Field Projects / Internships</b>
<b>School of Human Sciences</b>	
<b>Department of Anthropology</b>	
MA/MSc Anthropology	12
<b>Department of Geography</b>	
MA/MSc Geography	24
<b>Department of Psychology</b>	
BA/ BSc Psychology MA/MSc Psychology	14
<b>School of Languages and Literature</b>	
<b>Department of Hindi</b>	
MA Hindi	5
<b>School of Life Sciences</b>	
<b>Department of Horticulture</b>	
BSc Horticulture	28
MSc Horticulture	09
PhD Horticulture	17
<b>Department of Microbiology</b>	
MSc Microbiology	2
<b>Department of Zoology</b>	
MSc Zoology	19
<b>School of Physical Sciences</b>	
<b>Department of Chemistry</b>	
MSc Chemistry	19
MPhil Chemistry	2
PhD Chemistry	2
<b>Department of Computer Application</b>	
MCA	13
<b>Department of Geology</b>	
MSc Geology	33

<b>School of Professionals Studies</b>	
<b>Department of Commerce</b>	
MCom	23
<b>Department of Education</b>	
MEd	20
<b>Department of Management</b>	
MBA	17
<b>Department of Mass Communication</b>	
MA Mass Communication	27
<b>Department of Tourism</b>	
MT	27
MT	33
MT	27
MT	33
MT	33
<b>School of Social Sciences</b>	
<b>Department of History</b>	
MA History	22
<b>Department of International Relations</b>	
MA International Relations	10
<b>Department of Law</b>	
LLM	11

<b>1.4 Feedback System</b>				
<b>1.4.1 Whether structured feedback received from all the stakeholders.</b>				
1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
No	No	No	No	No
<b>1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)</b>				
The university system does not have a structured feedback system.				

<b>CRITERION II -TEACHING-LEARNING AND EVALUATION</b>			
<b>2.1 Student Enrolment and Profile</b>			
<b>2.1. 1 Demand Ratio during the year</b>			
<b>Name of the Programme</b>	<b>Number of seats available</b>	<b>Number of applications received</b>	<b>Students Enrolled</b>
<b>School of Human Sciences</b>			
<b>Department of Anthropology</b>			
MA/MSc Anthropology	20	43	20
MPhil Anthropology	3	13	3
PhD Anthropology	4	16	4
<b>Department of Geography</b>			
MA Geography	25	211	25
MPhil Geography	2	17	2
PhD Geography	3	38	3+1*
<b>Department of Psychology</b>			
BA/ BSc Psychology	20	56	18
MA/ MSc Psychology	10	20	10
MPhil Psychology	4	10	4
PhD Psychology	3	17	3
<b>School of Languages and Literature</b>			
<b>Department of Bhutia</b>			
MA Bhutia	20	17	14
<b>Department of Chinese</b>			
BA Chinese	20	91	20
MA Chinese	20	9	5
PhD Chinese	1	3	1
<b>Department of Hindi</b>			
MA Hindi	20	26	17
MPhil Hindi	5	9	3
PhD Hindi	1	12	1
<b>Department of Nepali</b>			



MA Nepali	30	66	30
MPhil Nepali	7	24	7
PhD Nepali	7	27	7+1*
<b>Department of English</b>			
MA English	30	226	30
MPhil English	5	34	5
PhD English	2	34	2
<b>Department of Lepcha</b>			
MA Lepcha	20	51	20
<b>Department of Limboo</b>			
MA Limboo	20	47	20
<b>School of Life Sciences</b>			
<b>Department of Botany</b>			
MSc Botany	20	243	20+1*
PhD Botany	1	15	1
<b>Department of Horticulture</b>			
BSc Horticulture	25	84	25
PhD Horticulture	5	16	5+1*
<b>Department of Microbiology</b>			
MSc Microbiology	20	134	18
MPhil Microbiology	3	0	0
PhD Microbiology	5	24	5
<b>Department of Zoology</b>			
MSc Zoology	20	241	20+1*
PhD Zoology	3	18	3
<b>School of Physical Sciences</b>			
<b>Department of Chemistry</b>			
MSc Chemistry	20	244	20+1*
MPhil Chemistry	1	4	1
PhD Chemistry	5	15	5
<b>Department of Computer Application</b>			

MCA Computer Application	20	41	19
PhD Computer Application	2	18	2+1*
<b>Department of Geology</b>			
B. Sc Geology	20	22	10
MSc Geology	7	109	7
PhD Geology	6	16	5
<b>Department of Mathematics</b>			
MSc Mathematics	20	101	20
MPhil Mathematics	1	3	0
<b>Department of Physics</b>			
MSc Physics	20	137	20+1*
MPhil Physics	2	6	2
PhD Physics	3	19	3
<b>School of Professionals Studies</b>			
<b>Department of Commerce</b>			
M Com Commerce	25	145	25+1*
PhD Commerce	2	22	2+1*
<b>Department of Education</b>			
MA Education	20	71	20
M Ed Education	20	14	8
PhD Education	3	47	3
<b>Department of Management</b>			
MBA Management	20	72	20
PhD Management	2	20	2
<b>Department of Mass Communication</b>			
MA Mass Communication	25	30	21
MPhil Mass Communication	6	13	5

PhD Mass Communication	1	18	1
<b>Department of Music</b>			
BPA Music	20	7	7
MPA Music	20	14	11
PhD Music	5	14	4
<b>Department of Tourism</b>			
MTTM Tourism	30	68	30+3*
MPhil Tourism	3	13	3
PhD Tourism	4	19	3
<b>School of Social Sciences</b>			
<b>Department of Economics</b>			
MA Economics	25	100	25
MPhil Economics	5	14	5
PhD Economics	4	10	5
<b>Department of History</b>			
MA History	30	126	30
MPhil History	5	21	5
PhD History	7	32	7
<b>Department of International Relations</b>			
MA International Relations	30	30	25
MPhil International Relations	2	8	1
<b>Department of Law</b>			
LLM Law	15	13	5
MPhil Law	3	1	0
PhD Law	4	25	4
<b>Department of Peace and Conflict Studies and Management</b>			
MA Peace and Conflict Management	20	17	14

MPhil Peace and Conflict Management	8	20	6
PhD Peace and Conflict Management	4	29	4
<b>Department of Political Science</b>			
MA Political Science	30	69	30+1*
MPhil Political Science	8	42	8
PhD Political Science	5	35	5
<b>Department of Sociology</b>			
MA Sociology	25	111	25
MPhil Sociology	4	26	4

Note: \* additional seats under supernumerary and/or discretionary provisions.

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Prospectus%202018-19.pdf>

<b>2.2 Catering to Student Diversity</b>					
<b>2.2.1. Student - Full time teacher ratio (current year data)</b>					
<b>Year</b>	<b>Number of students enrolled in the institution (UG)</b>	<b>Number of students enrolled in the institution (PG)</b>	<b>Number of full time teachers available in the institution teaching only UG courses</b>	<b>Number of full time teachers available in the institution teaching only PG courses</b>	<b>Number of teachers teaching both UG and PG courses</b>
2018-19	80	629	--	165 (including 8 contractual)	165 (including 8 contractual)

<b>2.3 Teaching - Learning Process</b>					
<b>2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)</b>					
<b>Number of teachers on roll</b>	<b>Number of teachers using ICT (LMS, e-Resources)</b>	<b>ICT tools and resources available</b>	<b>Number of ICT enabled classrooms</b>	<b>Number of smart classrooms</b>	<b>E-resources and techniques used</b>
157 165 (including Contractual)	157 165 (including Contractual)	Laptops Projectors Wi-Fi Services	112 (classrooms) +25 (Labs)	0	GoogleMeet Zoom Youtube

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

Students enrolled under various programmes like UG, PG, MPhil and PhD across various departments in the university are directly placed under the guidance and supervision of the departmental faculty members. The faculty members guides students in their minor dissertations, major dissertation, internships and field trips.

During their minor dissertations and major dissertation the students perform their routine assignments apportioned by their respective mentors and are rigorously assessed for performance during the tenure of the dissertation.

<b>Number of students enrolled in the institution</b>	<b>Number of fulltime teachers</b>	<b>Mentor: Mentee Ratio</b>
709	157	1:4.52
	165 (including Contractual)	1:4.29

<b>2.4 Teacher Profile and Quality</b>																								
<b>2.4.1 Number of full time teachers appointed during the year</b>																								
No. of sanctioned positions					No. of filled positions					Vacant positions					Positions filled during the current year					No. of faculty with PhD				
SI No	Department	Professor	Associate	Assistant	SI No	Department	Professor	Associate	Assistant	Total	SI No	Department	Professor	Associate	Assistant	SI No	Department	Professor	Associate	Assistant	SI No	Department	Numbers	
1	Anthropology	1	2	4	1	Anthropology	0	1	4	5	1	Anthropology	1	1	0	1	Anthropology	0	0	0	1	Anthropology	5	
2	Geography	1	2	5	2	Geography	0	1	4	5	2	Geography	1	1	1	2	Geography	0	0	0	2	Geography	5	
3	Psychology	1	3	3	3	Psychology	1	1	2	4	3	Psychology	0	2	1	3	Psychology	0	0	0	3	Psychology	4	
4	Bhutia	1	1	2	4	Bhutia	0	1	1	2	4	Bhutia	1	0	1	4	Bhutia	0	0	0	4	Bhutia	1	
5	Chinese	1	2	4	5	Chinese	0	0	3	3	5	Chinese	1	2	1	5	Chinese	0	0	0	5	Chinese	1	
6	Hindi	1	2	3	6	Hindi	0	0	3	3	6	Hindi	1	2	0	6	Hindi	0	0	0	6	Hindi	2	
7	Nepali	1	2	4	7	Nepali	0	2	4	6	7	Nepali	1	0	0	7	Nepali	0	0	0	7	Nepali	3	
8	English	1	2	4	8	English	1	1	4	6	8	English	0	1	0	8	English	0	0	0	8	English	4	
9	Lepcha	1	1	2	9	Lepcha	0	1	2	3	9	Lepcha	1	0	0	9	Lepcha	0	0	0	9	Lepcha	0	
10	Limboo	1	1	2	10	Limboo	0	1	2	3	10	Limboo	1	0	0	10	Limboo	0	0	0	10	Limboo	0	
11	Botany	1	3	4	11	Botany	2	1	4	7	11	Botany	0	2	0	11	Botany	0	0	0	11	Botany	7	
12	Horticulture	1	4	5	12	Horticulture	0	3	4	7	12	Horticulture	1	1	1	12	Horticulture	0	0	0	12	Horticulture	7	
13	Microbiology	1	2	4	13	Microbiology	1	1	4	6	13	Microbiology	0	1	0	13	Microbiology	0	0	0	13	Microbiology	6	
14	Zoology	1	2	4	14	Zoology	0	1	4	5	14	Zoology	1	1	0	14	Zoology	0	0	0	14	Zoology	5	
15	Chemistry	1	2	4	15	Chemistry	0	0	4	4	15	Chemistry	1	2	0	15	Chemistry	0	0	0	15	Chemistry	5	
16	Computer Applications	1	4	4	16	Computer Applications	0	2	4	6	16	Computer Applications	1	2	0	16	Computer Applications	0	0	0	16	Computer Applications	3	
17	Geology	1	3	5	17	Geology	0	1	5	6	17	Geology	1	2	0	17	Geology	0	0	0	17	Geology	6	
18	Mathematics	1	2	4	18	Mathematics	0	0	4	4	18	Mathematics	1	2	0	18	Mathematics	0	0	0	18	Mathematics	2	
19	Physics	1	3	3	19	Physics	0	2	4	6	19	Physics	1	1	0	19	Physics	0	0	0	19	Physics	6	



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20	Commerce	1	3	4	20	Commerce	2	1	4	7	20	Commerce	0	2	0	20	Commerce	0	0	0	20	Commerce	4
21	Education	1	2	4	21	Education	0	2	2	4	21	Education	1	0	2	21	Education	0	0	0	21	Education	4
22	Management	1	2	5	22	Management	0	1	4	5	22	Management	1	1	1	22	Management	0	0	0	22	Management	4
23	Mass Com	1	2	4	23	Mass Communicatio ns	1	0	4	5	23	Mass Communicatio ns	0	2	0	23	Mass Communicatio ns	0	0	0	23	Mass Comm	4
24	Music	1	2	4																	24	Music	1
25	Tourism	1	2	4	25	Tourism	0	0	4	4	25	Tourism	1	2	0	25	Tourism	0	0	0	25	Tourism	3
26	Economics	1	3	3	26	Economics	2	2	3	7	26	Economics	0	1	0	26	Economics	0	0	0	26	Economics	6
27	History	1	3	4	27	History	0	3	4	7	27	History	1	0	0	27	History	0	0	0	27	History	7
28	International Relations	1	2	4	28	International Relations	0	0	3	3	28	International Relations	1	2	1	28	International Relations	0	0	0	28	International Relations	1
29	Law	1	1	5																	29	Law	1
30	Peace and Conflict Management	1	2	3	30	Peace and Conflict Management	1	1	3	5	30	Peace and Conflict Management	0	1	0	30	Peace and Conflict Management	0	0	0	30	Peace and Conflict Mgt	5
31	Political Science	1	2	5																	31	Political Science	1
32	Sociology	1	2	4	32	Sociology	0	2	4	6	32	Sociology	1	0	0	32	Sociology	0	0	0	32	Sociology	3

<b>2.4.2 Honours and recognitions received by teachers</b> (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )			
<b>Year of award</b>	<b>Name of full time teachers receiving awards from state level, national level, international level</b>	<b>Designation</b>	<b>Name of the award, fellowship, received from Government or recognized bodies</b>
<b>School of Human Sciences</b>			
<b>Department of Psychology</b>			
2018-19	Dr. Saurabh Maheshwari	Assistant Professor, Psychology	Recipient of Publication Award of the year 2018 by Sikkim University, Gangtok.
2018-19	Dr. Saurabh Maheshwari	Assistant Professor, Psychology	Executive Member, National Academy of Psychology (NAOP) India since June 2018.
<b>School of Languages and Literature</b>			
<b>Department of Hindi</b>			
2018-19	Dr. Chukey Bhutia	Assistant Professor, Hindi	Sahitya Sammelan Shatavdi Samman Award ( By Bihar Hindi Sahitya Sammelan)
<b>Department of Nepali</b>			
2018-19	Dr Puspa Sharma	Associate Professor, Nepali	International Nepali Literary Society, Appreciation Award for Sikkim Chapter, Tesro Antarastriya Mahila Sammelen, Sikkim 2018

2018-19	Dr Kabita Lama	Associate Professor, Nepali	International Award- Bhawani Mishra International Literary Award, Damak, Sahitya Kala Sansthan, Jhapa, Nepal. on 22 <sup>nd</sup> Dec 2018
2018-19	Dr Kabita Lama	Associate Professor, Nepali	D K Shrestha Sahitik Puraskar 2019 for KAVITA DISCOURSE book, by Srasta Paiwar, Nagari, Darjeeling. On 9 <sup>th</sup> Feb 2019
2018-19	Dr Kabita Lama	Associate Professor, Nepali	Felicitated by Loyalty Academy School, Kathmandu, Nepal, on 12 <sup>th</sup> July 2018
<b>Department of Lepcha</b>			
2018-19	Kachyo Lepcha	Assistant Professor, Lepcha	Paper Title "Development of Contemporary Lepcha Culture, History and Literature" Selected Among the Top Four Papers Presented At Samvaad 2018, Bhubaneswar on 10 November 2018 and felicitated by Tata Steel, Jamshedpur on 17 November 2018 Organised by Tata Steel, India
<b>School of Life Sciences</b>			
<b>Department of Zoology</b>			

2018-19	Dr. Bhoj K. Acharya	Assistant Professor, Zoology	Member, National Coordination Committee for Transboundary Landscape Initiatives in the Indian Himalayan Region (IHR), Ministry of Environment, Forests and Climate Change, Government of India.
2018-19	Dr. Bhoj K. Acharya	Assistant Professor, Zoology	Academic Editor: PLoS ONE
<b>School of Professionals Studies</b>			
<b>Department of Music</b>			
2018-19	Dr. Surendra Kumar	Assistant Professor, Music	Shikshak Sree Award, Antarrashtiy Indo-Nepal Samarasta Manch, New Delhi
<b>School of Physical Sciences</b>			
<b>Department of Computer Applications</b>			
2018-19	Dr. Swarup Roy	Associate Professor, Computer applications	Guest Co-Editor of (International Journal) MDPI-Data (Special Issue: "Big Network Inference, Integration and Analysis for Precision Medicine (BigDataNetAnalysis)").
2018-19	Partha Pratim Ray	Assistant Professor, Computer applications	Young Achiever Award, IEAE
<b>Department of Geology</b>			

2018-19	Prof. V.C.Tewari	Professor, Geology	Bharat Ratna Dr. Abdul Kalam Gold Medal Award 28 <sup>th</sup> July 2018 by GEPR, New Delhi
<b>School of Social Sciences</b>			
<b>Department of History</b>			
2018-19	Veenu Pant	Associate Professor, History	Nominated Member ICHR-NERC
<b>Department of Peace and Conflict Studies and Management</b>			
2018-19	Dr Sanghamitra Choudhury	Assistant Professor, Peace and Conflict Studies & Management	Nominated by Regional Head Quarter of NER, United Nations (Guwahati) as an Honorary coordinator for opening a 'Resource Centre of United Nations, Sikkim Chapter'
<b>Department of Political Science</b>			
2018-19	Prof. M. Yasin	Professor, Political Science	SIKHSHA RATNA by Government of West Bengal.
2018-19	Dr. Durga P. Chhetri	Associate Professor, Political Science	Young National Political Scientist award by Indian Political Science Association

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

<b>2.5 Evaluation Process and Reforms</b>				
<b>2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year</b>				
<b>Programme Name</b>	<b>Progr amme Code</b>	<b>Semester/ year</b>	<b>Last date of the last semester-end/ year-end examination</b>	<b>Date of declaration of results of semester-end/ year-end examination</b>
MA/MSc in Anthropology	MA/M Sc	Even Semester 2018	15/06/2018	03/07/2018
MA in Geography	MA	Even Semester 2018	15/06/2018	03/07/2018
MA/ M Sc in Psychology	MA/M Sc	Even Semester 2018	15/06/2018	03/07/2018
BA/ BSc In Psychology	BA/BS c	Even Semester 2018	15/06/2018	03/07/2018
MA in Bhutia	MA	Even Semester 2018	15/06/2018	03/07/2018
MA in Chinese	MA	Even Semester 2018	15/06/2018	03/07/2018
BA in Chinese	BA	Even Semester 2018	15/06/2018	03/07/2018
MA in Hindi	MA	Even Semester 2018	15/06/2018	03/07/2018
MA in Nepali	MA	Even Semester 2018	15/06/2018	03/07/2018
MA in English	MA	Even Semester 2018	15/06/2018	03/07/2018
MA in Lepcha	MA	Even Semester 2018	15/06/2018	03/07/2018
MA in Limboo	MA	Even Semester 2018	15/06/2018	03/07/2018
MSc in Botany	MSc	Even Semester 2018	15/06/2018	03/07/2018

MSc in Horticulture	MSc	Even Semester 2018	15/06/2018	03/07/2018
BSc in Horticulture	BSc	Even Semester 2018	15/06/2018	03/07/2018
MSc in Microbiology	MSc	Even Semester 2018	15/06/2018	03/07/2018
MSc in Zoology	MSc	Even Semester 2018	15/06/2018	03/07/2018
MSc in Chemistry	MSc	Even Semester 2018	15/06/2018	03/07/2018
MCA Computer Applications	MA	Even Semester 2018	15/06/2018	03/07/2018
Integrated BCA-MCA Computer Applications	Integrated BCA-MCA	Even Semester 2018	15/06/2018	03/07/2018
MSc in Geology	MSc	Even Semester 2018	15/06/2018	03/07/2018
BSc in Geology	BSc	Even Semester 2018	15/06/2018	03/07/2018
MSc in Mathematics	MSc	Even Semester 2018	15/06/2018	03/07/2018
MSc in Physics	MSc	Even Semester 2018	15/06/2018	03/07/2018
MCom Commerce	MA	Even Semester 2018	15/06/2018	03/07/2018
MA in Education	MA	Even Semester 2018	15/06/2018	03/07/2018
MBA Management	MBA	Even Semester 2018	15/06/2018	03/07/2018
MA in Mass Communications	MA	Even Semester 2018	15/06/2018	03/07/2018
MPA in Music	MPA	Even Semester 2018	15/06/2018	03/07/2018
BPA in Music	BPA	Even Semester 2018	15/06/2018	03/07/2018
MA in Tourism	MA	Even Semester 2018	15/06/2018	03/07/2018
MA in Economics	MA	Even Semester 2018	15/06/2018	03/07/2018
MA in History	MA	Even Semester 2018	15/06/2018	03/07/2018
MA in International Relations	MA	Even Semester 2018	15/06/2018	03/07/2018
LLM Law	LLM	Even Semester 2018	15/06/2018	03/07/2018
MA in PCSM	MA	Even Semester 2018	15/06/2018	03/07/2018
MA in Political Science	MA	Even Semester 2018	15/06/2018	03/07/2018

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MA in Sociology	MA	Even Semester 2018	15/06/2018	03/07/2018
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**2.5.2 Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year****\*Do not include re-evaluation/ re-totalling**

<b>Number of complaints or grievances about evaluation</b>	<b>Total number of students appeared in the examination</b>	<b>Percentage</b>
0	1407	0

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**2.6 Student Performance and Learning Outcomes****2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)**

One of the expected outcome is to inculcate the understanding and grasp over diverse aspects of the course. These will sufficiently equip the students for the specific needs of different industrial sectors, professional and academic institutions.

<b>2.6.2 Pass percentage of students</b>				
<b>Program me Code</b>	<b>Programme name</b>	<b>Number of students appeared in the final year examination</b>	<b>Number of students passed in final Semester /year examination</b>	<b>Pass Percentag e</b>
MA/MSc	MA/MSc in Anthropology	15	14	93.33
MA	MA in Geography	25	25	100.00
MA/MSc	MA/ M Sc in Psychology	17	17	100.00
BA/BSc	BA/ BSc In Psychology	12	11	91.67
MA	MA in Bhutia	20	20	100.00
MA	MA in Chinese	5	5	100.00
BA	BA in Chinese	10	10	100.00
MA	MA in Hindi	6	6	100.00
MA	MA in Nepali	24	24	100.00
MA	MA in English	26	25	96.15
MA	MA in Lepcha	19	19	100.00
MA	MA in Limboo	20	20	100.00
MSc	MSc in Botany	20	19	95.00
MSc	MSc in Horticulture	20	20	100.00
BSc	BSc in Horticulture	25	25	100.00
MSc	MSc in Microbiology	17	16	94.12
MSc	MSc in Zoology	21	21	100.00
MSc	MSc in Chemistry	20	20	100.00
MA	MCA Computer Applications	12	11	91.67
Integrated BCA-MCA	Integrated BCA-MCA Computer Applications	3	3	100.00
MSc	MSc in Geology	19	17	89.47

BSc	BSc in Geology	13	12	92.31
MSc	MSc in Mathematics	17	7	41.18
MSc	MSc in Physics	19	19	100.00
MA	MCom Commerce	25	25	100.00
MA	MA in Education	21	21	100.00
MBA	MBA Management	19	16	84.21
MA	MA in Mass Communications	17	15	88.24
MPA	MPA in Music	0	0	0.00
BPA	BPA in Music	13	13	100.00
MA	MA in Tourism	27	27	100.00
MA	MA in Economics	26	26	100.00
MA	MA in History	27	27	100.00
MA	MA in International Relations	17	17	100.00
LLM	LLM Law	17	16	94.12
MA	MA in PCSM	3	3	100.00
MA	MA in Political Science	28	28	100.00
MA	MA in Sociology	25	25	100.00

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## **2.7 Student Satisfaction Survey**

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

The institution is working towards development of an appropriate mechanism to collect the results and detail of the student satisfaction.

<b>CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION</b>				
<b>3.1 Promotion of Research and Facilities</b>				
<b>3.1.1 Teachers awarded National/International fellowship for advanced studies/ research during the year</b>				
<b>National/International</b>	<b>Name of the teacher awarded the fellowship</b>	<b>Name of the Award</b>	<b>Date of Award</b>	<b>Awarding Agency</b>
National	Dr. Pradyut Guha	Sikkim University Research Award	2018-19	Sikkim University
National	Dr. Santosh Kumar	University Research Fund Award	2018-19	Sikkim University
National	Dr. Niladri Bag	Himalayan Fellowship 2017-18	2018-19	NMHS, MoEF, Government of India

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

<b>3.1.2 Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year</b>		
<b>Name of Research fellowship</b>	<b>Duration of fellowship</b>	<b>Funding agency</b>
<b>(8 no)</b> Maulana Azad National Fellowship - Ministry of Minority Affairs	Stipulated Tenure	Ministry of Minority Affairs, GOI
<b>(8 no)</b> UGC: National Fellowship for OBC	Stipulated Tenure	UGC, GOI
<b>(38 no)</b> UGC NET Fellowship	Stipulated Tenure	UGC, GOI
<b>(4 no)</b> Rajiv Gandhi National Fellowship	Stipulated Tenure	Ministry of Social Justice and Empowerment for Scheduled Caste Ministry of Tribal Affairs for Scheduled Tribe
<b>(4 no)</b> National Fellowship for Scheduled Tribe	Stipulated Tenure	Ministry of Tribal Affairs, GOI
<b>(* no)</b> Non-Net Fellowship	Stipulated Tenure	Sikkim University

<b>3.2 Resource Mobilization for Research</b>					
<b>3.2.1 Research funds sanctioned and received from various agencies, industry and other organisations</b>					
<b>Nature of the Project</b>	<b>Duratio n</b>	<b>Name of the funding Agency</b>	<b>Total grant Sanction ed (in Lakhs)</b>	<b>Amount received during the year (in Lakhs)</b>	<b>Title of the Project</b>
<b>Major projects Interdisciplinary Projects</b>	24 Months	ICSSR, New Delhi	10	5.00	Is Delayed Wage payment a Bottleneck for the Success of the National Rural Employment Guarantee Act? A Comparative Study of Sikkim and Tripura (Investigators: Dr. Khangembam Indira, Sociology, Dr. Komol Singha, Economics, Sikkim University)
<b>Major projects</b>	36 Months	DBT, Govt. of India	27.57	9.19	A Biotechnological approach to elucidate adaptation mechanism, migration pattern and reproductive biology of indicator temperate alpine plants in Himalayas in response to changing climate (Investigators: Dr. Arun Chettri and Dr. Arun K. Rai, Botany, Sikkim University)
<b>Major projects</b>	36 Months	DBT, Government of India	35.63	11.88	Developing microbial consortium for horticulture crops in rice based cropping system to promote growth, nutrient uptake and diseases



					management in organic farming in Sikkim (Investigators: Dr. Laxuman Sharma, Horticulture, Sikkim University)
<b>Major projects</b>	36 Months	NMHS, MoEF, Government of India	98.44	32.81	Conservation, Promotion and intensification of local crop landraces of germplasm for livelihoods of organic farmers in Sikkim (Investigators: Dr. Laxuman Sharma, Horticulture, Sikkim University)
<b>Major projects</b>	36 Months	DBT, Government of India	38.74	12.91	In vitro mass propagation of High value hill Banarna (Investigators: Dr. Laxuman Sharma, Horticulture, Sikkim University)
<b>Major projects</b>	24 Months	Department of FEWMD, Govt. of Sikkim	29.8	14.90	Farming System based assessment of agro-diversity under different Agro ecological Situation in Sikkim (Investigators: Dr. Laxuman Sharma, Horticulture, Sikkim University)
<b>Major projects</b>	36 Months	NMHS, MoEF, Government of India	68.55	22.85	Himalayan Fellowship 2017-18 (Investigators: Dr. Niladri Bag, Horticulture, Sikkim University)

<b>Major projects</b>	36 Months	GBPNIH ED, NMHS, MoEF, Government of India	14.38	4.79	Bio-control of fungal disease of large cardamom ( <i>Amomum subulatum</i> ) using antagonistic microorganism(s)/ botanicals/ indigenous traditional knowledge based formulation (Investigators: Dr. Niladri Bag, Horticulture, Sikkim University)
<b>Major projects</b>	36 Months	DBT-SERB	Yet to receive	Yet to receive	Conservation and sustainable use of <i>Nardostachys grandiflora</i> DC. [Valerianaceae] an endangered medicinal plant of Sikkim Himalayas (Investigators: Dr. Manju Rana, Horticulture, Sikkim University)
<b>Major projects</b>	36 Months	Department of Biotechnology, Ministry of Science and Technology, New Delhi	42.8	14.27	Studies on Poly-γ-glutamic acid (PGA)-producing <i>Bacillus</i> spp. from naturally fermented soybean foods of North East India and structural characterization and digestive stability of PGA (Investigator: Prof. J P Tamang, Microbiology, Sikkim University)
<b>Major projects</b>	36 Months	Department of Biotechnology,	99.6	33.20	DBT-AIST International Centre for Translational and Environmental Research (DAICENTRE) (Investigator:

		Ministry of Science and Technology, New Delhi			Prof. J P Tamang, Microbiology, Sikkim University)
<b>Major projects</b>	36 Months	SERB-DST, Govt. of India	32.84	10.95	Diversity pattern, range size distribution and trait composition of butterflies along elevation gradients in the Sikkim Himalaya (Investigator: Dr. Bhoj K. Acharya, Zoology, Sikkim University)
<b>Major projects</b>	24 Months	Department of Forests, Environment and Wildlife Management Department, Govt. of Sikkim	29.00	14.50	Farming System based assessment of pollinators, soil macrofauna, local germplasms under different Agro-ecological Situations of Sikkim (Investigators: Dr. Bhoj K. Acharya, Dr. Basundhara Chettri, Zoology, Sikkim University)
<b>Major projects</b>	36 Months	SERB-DST, Govt. of India	33.38	11.13	Ecology, distribution and phylogeny of <i>Takydromus sikkimensis</i> (Gunther, 1888) (Squamata: Lacertidae) in the North East India" (Investigator:

					Dr. Basundhara Chettri, Zoology, Sikkim University)
<b>Major projects</b>	36 Months	SERB-DST, Govt. of India	32.84	10.95	Diversity pattern, range size distribution and trait composition of butterflies along elevation gradients in the Sikkim Himalaya (Investigator: Dr. Bhoj K. Acharya, Zoology, Sikkim University)
<b>Major projects</b>	36 Months	DBT	80.00	26.67	Development of Novel Therapeutic Lead(s) Against Visceral Leishmaniasis Through Creation of Privileged Diversity Oriented Synthetic (pDOS) Library of Small-molecules and Study of their In-vitro/In-vivo Activity Against Leishmania donovani (Investigator: Dr. Biswajit Gopal Roy, Chemistry, Sikkim University)
<b>Major projects</b>	36 Months	Department of Science & Technology, (DST), Govt. of India	60.00	20.00	Large Scale Biological Network Reconstruction and Analysis for Identifying Therapeutic Targets for Alzheimer's: A Big Data Initiative (Investigator: Dr. Swarup Roy, Computer Applications, Sikkim University)
<b>Major projects</b>	36 Months	SERB-DST	42	14.00	Electromagnetic Induced Transparency based quantum memory (Investigator: Dr. Ajay

					Tripathi, Physics, Sikkim University)
<b>Major projects</b>	36 Months	SERB-DST	52	17.33	Thermoelectric properties of carbon nanomaterials under pressure (Investigator: Dr. Archana Tiwari, Physics, Sikkim University)
<b>Minor Projects</b>	6 Months	DESME, Govt. of Sikkim	2.5	5.00	Road Network Study in Sikkim, (Investigators: Dr. Komol Singha, Economics, Dr. Rajesh Raj S.N., Economics, Sikkim University)
<b>Minor Projects Interdisciplinary Projects</b>	24 Months	ICSSR, New Delhi	7	3.50	Medium of Instruction and Students Performance at the School Level in India's North-Eastern Region, (Investigators: Dr. Komol Singha, Economics, Dr. Khangembam Indira, Sociology, Sikkim University)
<b>Minor Projects</b>	24 Months	ICSSR (Joint Research Project of ICSSR & JSPS)	9.67	4.84	Past and Present of Governance of Rural Resources: Comparative Institutional Analysis of Japan and India (Investigator: Dr. Vijay Kumar Thangellapali, History, Sikkim University)
<b>Minor Projects</b>	24 Months	ICSSR	6	3.00	<i>Emerging Conflict Dynamics between Tea Estate's Labourers and Management in West Bengal</i> (major research project funded by Indian

					Council for Social Science Research, New Delhi). (Investigator: Dr. N K Paswan, Peace and Conflict Studies and Management, Sikkim University)
<b>Minor Projects</b>	12 Months	ICSSR, New Delhi Delhi	3	3.00	Pastoral Ecology with special Reference to Yak Rearing: Case Study of Sikkim Himalaya (Investigator: Dr. Uttam Lal, Geography, Sikkim University)
<b>International Projects</b>	18 Months	ICIMOD	\$1806	1204.00	Diagnosing Water security in hard to reach mountainous areas with an environmental security framework (Investigator: Dr. Anil Kumar Misra , Geology, Sikkim University)
<b>Minor Projects</b>	12 Months	15 <sup>th</sup> Finance Commission	4.5	4.50	Outcome evaluation of 14 finance commission: determination of sustainable road map for 2020-25, taking into account impact of GST and other tax/non tax trends forecast (Investigators: Prof. Abhijit Dutta, Prof. S.S. Mahapatra and Dr. B. Muthu Pandia, Commerce, Sikkim University)
<b>Minor Projects</b>	12 Months	ICSSR	1.5	1.50	Digital Religion: A Study on online religious meaning-making in everyday life of youths of Sikkim

					(Investigators: Dr. M K Das, Mass Communications, Sikkim University)
<b>Projects sponsored by the University</b>	12 Months	Sikkim University Research Award	.5	0.50	Farm Level Efficiency of Cash Crops in Different Agro Climatic Regions of Sikkim (Investigator: Dr. Pradyut Guha, Economics, Sikkim University)
<b>Projects sponsored by the University</b>	12 Months	Sikkim University	.5	0.50	Impact of Gorkhaland Movement on the Socio-Economic Conditions of the People of Sikkim: An Attitudinal Survey' (Investigator: Dr. Amit Kumar Gupta, Political Science, Sikkim University)
<b>Projects sponsored by the University Interdisciplinary Projects</b>	12 Months	Sikkim University	.25	0.25	Mapping Feminist Epistemology: From Western Feminist to Indian-Nepali Feminist Discourse (Investigator: Dr. Rosy Chamling, English, Dr. Pushpa Sharma, Nepali, Sikkim University)
<b>Projects sponsored</b>	12 Months	Sikkim University	1	1.00	Nepali Kavita Prakriti chintan (Investigator: Dew

<b>red by the Univer sity</b>					Chandra Subba, Nepali, Sikkim University)
<b>Projec ts sponso red by the Univer sity</b>	12 Months	Sikkim Universi ty	.75	0.75	Tracing Folk Dance Drama Tradition 'Balan' of Sikkim (Investigator: Dr. Santosh Kumar, Music, Sikkim University)



<b>3.3 Innovation Ecosystem</b>		
<b>3.3.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year</b>		
<b>Title of Workshop/Seminar</b>	<b>Name of the Dept.</b>	<b>Date(s)</b>
<b>School of Human Sciences</b>		
<b>Department of Anthropology</b>		
Prof. Sameera Maiti Memorial Lecture	Anthropology	14 November 2018
Guest Lecture	Anthropology	11 February 2019
Guest Lecture	Anthropology	12 February 2019
Interactive Session-cum- Guest Lecture	Anthropology	14 February 2019
<b>Department of Psychology</b>		
Workshop	Psychology	6 June 2018
Workshop	Psychology	5 May 2019
<b>School of Languages and Literature</b>		
<b>Department of Nepali</b>		
Chandrika Translation	Nepali	05 October 2018
Two Days' National Seminar on Nepali Lok Sahitya	Nepali	13-14 November 2018
<b>Department of English</b>		
"Teaching of English in Sikkim University: Methods and Approaches" A Two-Day Workshop	English	13-14 June 2018
<b>Department of Lepcha</b>		
Tendong Lho Rum Faat celebration 2018	Lepcha	8 August 2018
One day seminar on Re-interpretation of past discourse on	Lepcha	15 November 2018

history, culture, language and literature of Lepcha		
One day experience sharing and tinteractive programme on Free flowing River from regional/activist prospective Collaboration with ACT, SOS and SS	Lepcha	26 February 2019
<b>School of Life Sciences</b>		
<b>Department of Botany</b>		
Current Issues in Plant Sciences	Botany	01 June 2018
Plant Photosynthesis and Productivity	Botany	01 March 2019
Global Food Security and Climate Change-Some Technological Interventions	Botany	16 May 2019
<b>Department of Zoology</b>		
National Conference Emerging Trends on Biological Sciences and Future Prospects	Zoology	28-29 May 2019
Open Data Kit (ODK) for Data collection, Database Management, and Sampling Design and Methodologies	Zoology	9-14 July 2018
Sampling Techniques and Identification of Odonates and Other Aquatic Insects	Zoology	15-18 September 2018
Data Management and Analysis for Biologists using R	Zoology	25 February-09 March 2019
Open Data Kit (ODK) for Data collection, Database Management,	Zoology	9-14 July 2018

and Sampling Design and Methodologies		
Sampling Techniques and Identification of Odonates and Other Aquatic Insects	Zoology	15-18 September 2018
<b>School of Physical Sciences</b>		
<b>Department of Computer Applications</b>		
Three days workshop on Blockchain Technology	Computer Applications	28-30 March 2019
1 day lecture on Recent Trends on Bioinformatics	Computer Applications	23 February 2019
<b>Department of Geology</b>		
DST INSPIRE Science Camp	Geology	20 December 2018 to 24 December 2019
<b>School of Professional Studies</b>		
<b>Department of Commerce</b>		
Pan India Symposium on CSR for Nation Building	Commerce	30 April 2019
<b>School of Social Sciences</b>		
<b>Department of Economics</b>		
Workshop on the Topic: Dhrupad Music and Carnatic Music (Violin)	Music	13- 16 November 2019
Workshop on Violin	Music	19-22 October 2019
<b>Department of History</b>		
Indian Science: History and Historiography	History	1-3 August 2018
Past and Present of Governance of Rural Resources: Comparative Institutional Analysis of Japan and India	History	5-6 March 2019
<b>Department of International Relations</b>		

VII Distinguished Foreign Policy Lecture by Amb. Rengaraj Viswanathan	International Relations	28 April 2019
<b>Department of Peace and Conflict Studies and Management</b>		
Revitalizing BIMSTEC: Promoting Peace through Cultural and Economic Integration	Peace and Conflict Studies & Management	14-15 March 2019
Minorities in India ( Prof Rowena Robinson,IIT Bombay)	Peace and Conflict Studies & Management	29 March 2019
<b>Department of Sociology</b>		
Regional Eastern Himalayan Naturenomics TM Forum 2019, Sikkim Chapter Theme: Community, Conservation & Livelihoods: The Lepcha Community	Sociology	27 April 2019
<b>Placement Cell</b>		
Placement Orientation Program	Placement Cell	07 September 2018
Campus recruitment of ICICI Bank	Placement Cell	17 March.2019
Campus Recruitment Drive by Thomson Digital	Placement Cell	13.May 2019
Campus Recruitment Drive by Kervy Ltd	Placement Cell	22 May 2019
Campus Recruitment Drive by Flipcart	Placement Cell	22 May 2019
<b>Innovation and Entrepreneurship Development (IED) Cell</b>		
One-day Entrepreneurship Meet on 'Challenges and Opportunities in Entrepreneurship'	IED Cell	4 October 2018
'Entrepreneurship/Business Plan Contest	IED Cell	5 November 2018
<b>Hindi Cell</b>		

Workshop on “Hindi Quarterly Report”	Hindi Cell	23 July 2018
Workshop on “Hindi Typing”	Hindi Cell	28 December 2018
Workshop on “Knowledge of Hindi Language – In context of Grammar”	Hindi Cell	29 March 2019
10 days Video Conference on Hindi language	Hindi Cell	10 -14 September 2018 & 24-28 September 2018
Hindi Pakhawada	Hindi Cell	4-17 September 2018
<b>Finance Section</b>		
One day workshop on EAT Module PFMS workshop	Finance	7 August 2018
<b>Library</b>		
Orientation Programme	Central Library	20-30 August 2018
User Awareness Programme on Elsevier & J-gate	Central Library	3 June 2018
Awareness Programme on URKUND	Central Library	24 October 2018
User Awareness Programme on EBSCO & J-gate	Central Library	14 March 2019
<b>Bioinformatics Centre</b>		
Workshop on Bioinformatics in Eukaryotes Diversity	DBT	8 September 2018

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

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

<b>Title of the innovation</b>	<b>Name of the Awardee</b>	<b>Awarding Agency</b>	<b>Date of Award</b>	<b>Category</b>
NIL				

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

<b>Incubation Centre</b>	<b>Name</b>	<b>Sponsored by</b>
NIL		
<b>Name of the Start-up</b>	<b>Nature of Start-up</b>	<b>Date of commencement</b>
NIL		

<b>3.4 Research Publications and Awards</b>	
<b>3.4.1 Ph. Ds awarded during the year</b>	
<b>Name of the Department</b>	<b>No. of Ph. Ds Awarded</b>
<b>School of Human Sciences</b>	
<b>Department of Psychology</b>	
Psychology	1
<b>School of Languages and Literature</b>	
<b>Department of Nepali</b>	
Nepali	3
<b>School of Life Sciences</b>	
<b>Department of Botany</b>	
Botany	1
<b>Department of Horticulture</b>	
Horticulture	3
<b>Department of Microbiology</b>	
Microbiology	2
<b>School of Physical Sciences</b>	
<b>Department of Physics</b>	
Physics	1
<b>School of Professional Sciences</b>	
<b>Department of Commerce</b>	
Commerce	1
<b>School of Social Sciences</b>	
<b>Department of Commerce</b>	
History	1
<b>Department of Peace and Conflict Studies and Management</b>	
Department of Peace and Conflict Studies and Management	2
<b>Department of Sociology</b>	
Sociology	1

<b>3.4.2 Research Publications in the Journals notified on UGC website during the year</b>			
<b>Type</b>	<b>Department</b>	<b>No. of Publication</b>	<b>Average Impact Factor, if any</b>
<b>School of Human Sciences</b>			
International 1	Anthropology	1	-
National	Geography	2	-
International 1	Psychology	4	-
<b>School of Languages and Literature</b>			
National	Hindi	10	-
National	Nepali	8	-
International 1	Nepali	1	-
National	English	3	-
International 1	English	4	-
<b>School of Life Sciences</b>			
National	Botany	3	-
International 1	Botany	10	-
International 1	Horticulture	14	-
National	Microbiology	2	-
International 1	Microbiology	9	-
National	Zoology	1	-
International 1	Zoology	7	-



<b>School of Physical Sciences</b>			
International 1	Chemistry	4	-
International 1	Computer Applications	14	-
National	Geology	3	-
International 1	Geology	17	-
International 1	Physics	19	-
<b>School of Professionals Studies</b>			
National	Commerce	3	-
National	Education	2	-
International 1	Education	11	-
National	Management	3	-
International 1	Management	2	-
International 1	Mass Communications	5	-
National	Music	3	-
International 1	Music	1	-
National	Tourism	1	-
<b>School of Social Sciences</b>			
National	Economics	4	-
International 1	Economics	10	-
National	History	1	-
International 1	History	1	-
National	International Relations	1	-

International 1	International Relations	3	-
National	Law	1	-
International 1	Law	2	-
National	Peace and Conflict Studies & Management	1	-
International 1	Peace and Conflict Studies & Management	2	-
National	Sociology	1	-
International 1	Sociology	3	-
National	Center for Bioinformatics	2	-
International 1	Center for Bioinformatics	3	-

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

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

<b>Department</b>	<b>No. of publication</b>
<b>School of Human Sciences</b>	
Anthropology	3
<b>School of Languages and Literature</b>	
Chinese	1
Hindi	3
Nepali	15
Lepcha	2
Limboo	2
<b>School of Life Sciences</b>	
Botany	2
Microbiology	2
Zoology	2
<b>School of Physical Sciences</b>	
Computer Applications	5
Geology	1
Physics	3
<b>School of Professionals Studies</b>	
Commerce	2
Education	2
Management	4
Mass Communications	1
Music	1
Tourism	1
<b>School of Social Sciences</b>	
Economics	8
History	2
International Relations	1
Law	4

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Peace and Conflict Studies & Management	5
Political Science	2

<b>3.4.4 Patents published/awarded during the year</b>			
<b>Patent Details</b>	<b>Patent status Published/Filed</b>	<b>Patent Number</b>	<b>Date of Award</b>
Ray. P.P., Dash Dinesh, De Debashis , Novel Development of Decentralized Light-Weight SPV Client for Trustless Blockchain- IoT Assisted e-Healthcare in Resource-Constrained Environment	National (Filed)	201931008 732	-
Ray. P. P., Thapa Nishant, Real- Time Monitoring of Non-Invasive Intravenous Fluid Level for Pervasive and Assistive E- Healthcare using IoT	National (Filed)	201831049 716	-

<b>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</b>						
<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>Citation Index</b>	<b>Institutional affiliation as mentioned in the publication</b>	<b>Number of citations excluding self-citations</b>
<b>School of Human Sciences</b>						
<b>Department of Anthropology</b>						
Ruins of living and dead in the Himalayan borderlands	Lepcha, C.K. and U Lal	IIAS Newsletter	2019	NIL	Sikkim University	NIL
<b>Department of Geography</b>						
Morpho- Dynamics Assessmen of Raidak River II Confluence with help of Geospatial Technoloques.	Singh, I.E. and Singha, A	Indian Geographical Journal	2018	NIL	Sikkim University	NIL
Tea Producing Societies (SHGs) in India: An Alternative Model for Sustenance.	Hannan, A.	Social Action	2018	NIL	Sikkim University	NIL
<b>Department of Psychology</b>						

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Exploring Perceived Causes and Consequences of Substance Abuse in Sikkim.	Lingzerpa, S. and <b>Panda, S</b>	IAHRW International Journal of Social Sciences Review	2018	NIL	Sikkim University	NIL
Happiness, across age groups: Findings based on three measures	Moirangthem, S. and <b>Panda, S.</b>	International Journal of Health Sciences and Research 8(10): 15-25.	2018	NIL	Sikkim University	NIL
Evolving relationship of the institutionalized intellectual disabled and autistic children.	Rai, S. and <b>Panda, S.</b>	Journal of Emerging Technologies and Innovative Research	2018	NIL	Sikkim University	NIL
Anxiety and mental health among combat sports athletes of Assam.	Barua, K. and <b>Panda, S</b>	International Journal on Arts, Management and Humanities	2018	NIL	Sikkim University	NIL
<b>School of Languages and Literature</b>						
<b>Department of Hindi</b>						

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Mannu Bhandari Ki Kahaniyon	Shahu, D.	Mein Stree Ke Vividh Rup. Meghalay Darpan	2018	NIL	Sikkim University	NIL
Bhutia Sahitya	Bhutia, C.	Current Journal	2019	NIL	Sikkim University	NIL
Bhaavani Prasad mishra aur unka rachna sansaar	Bhutia, C.	Ayyan	2019	NIL	Sikkim University	NIL
Tulnatmak Shodh ke Vividh Pariprekshya.	Tripathi, P.	Hindi Samay	2018	NIL	Sikkim University	NIL
Kalpana Patrika Ka Sampadakiya Hastkshep.	Tripathi, P.	Media Vimarsh	2019	NIL	Sikkim University	NIL
Sankat Mein Imandari Ke Sath Ladati Aadiwasi Kavitayen	Tripathi, P.	Dainik Jagran	2018	NIL	Sikkim University	NIL
Sampadan Kala	Agnihotri, B.	Itihas aur Vartman Srijan Se	2018	NIL	Sikkim University	NIL
Samaj, Sahitya aur Bhasha ke Vicharon ka Sangrah,	Agnihotri, B.	SahityaKunj	2018	NIL	Sikkim University	NIL



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Maraland ki Smritiyan	Agnihotri, B.	Nootan Vagdhara	2019	NIL	Sikkim University	NIL
Poorwottar Bharat Ka Bhashai Paridrishya	Singh, K.	Awadh Archana	2019	NIL	Sikkim University	NIL
<b>Department of Nepali</b>						
Nepali Kavita main Dalit Chetna, Shivdeepak Sharma (ed), Shodh Pravah	Lama, K.	A six-Minotly International Research Journal of All Stream	2018	NIL	Sikkim University	NIL
Nepali BalKhel Geetko VikashMa BalBalikako Bhumika	Lama, K.	Nepali Akademy	2018	NIL	Sikkim University	NIL
Narivadka kavyashastra':Nari Sachetanako Vishleshanatmak Adhyayan	Lama, K.	Akademi Journal	2018	NIL	Sikkim University	NIL
Path, Pathak ra Pathan	Subba, Dewchandra	Himalayan Research Journal	2018	NIL	Sikkim University	NIL
Bharatiya Tulnatmak Aadhyayan ra Awadharana	Subba, D.	Nepali Academy Journal	2018	NIL	Sikkim University	NIL

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Patra	Subba, D.	Sikkim Akademi Journal	2018	NIL	Sikkim University	NIL
Kathakarka Aakha : Baicharik Samrachan	Subba, D.	Sahitya Sanket	2019	NIL	Sikkim University	NIL
Samaj Bhasavigyanka Sandarvama Pidgin ra Creole	Pandey, B.	Akademi Journal	2018	NIL	Sikkim University	NIL
Folk Expressions of the khasas of Sikkim	Pandey, B.	Academy Journal	2018	NIL	Sikkim University	NIL
<b>Department of English</b>						
From Roots to Routes: Navigating Diasporic Sensibility in Prajwal Parajuly's The Gurkha's Daughter	Chamling, Rosy	Journal of Exclusion Studies	2019	NIL	Sikkim University	NIL
My Life is a hesitation before birth: The Pain of Unbelonging in the Novels of Franz Kafka.	Chamling, Rosy	International Journal of Humanities and Social Science Invention	2019	NIL	Sikkim University	NIL
Politics of Postcolonial Indian English: Meta Language as	Yadav, Ram Bhawan	A Bulletin of Humanities and Social Sciences	2018	NIL	Sikkim University	NIL

Indigenous Mode of Subversive Discourse in Rushdie's <i>Midnight's Children</i> . Manviki.						
Representing Marginal, Cosmopolitan and Postcolonial Position via Indianess of Lexicon in Salman Rushdie's <i>Midnight's Children</i> .	Yadav, Ram Bhawan	The International Journal of Higher Education and Research	2019	NIL	Sikkim University	NIL
Indian Lexicon and Child's Lingo: Vernacularization/ Appropriation of Colonial English in Arundhati Roy's <i>The God of Small Things</i> . Glocal Colloquies:	Yadav, Ram Bhawan	An International Journal of Literature and Social Sciences	2019	NIL	Sikkim University	NIL
From No Longer at Ease to Everything	Aden, Abrona Lee Pandi	Gnosis: An International	2019	NIL	Sikkim University	NIL

Good Will Come: Genealogies of Gender and Resistance in Chinua Achebe, Chimamanda Ngozi Adichie and Sefi Atta.		Refereed Journal of English Language and Literature.				
Travels into Several Remote Nations of the World: Travel, Translation and a New Life of Gulliver's Travels in Colonial Bengal.	Saha, Saswati	Jadavpur University Essays and Studies	2018	NIL	Sikkim University	NIL
<b>School of Life Sciences</b>						
<b>Department of Botany</b>						
Interference between arsenic-induced toxicity and hypoxia.	Kumar, V., Vogelsang, L., Seidel, T., Schmidt, R., Weber, M., Reichelt, M., Meyer, A., Clemens, S.,	Plant Cell and Environment	2019	3	Sikkim University	3

	Sharma, S.S., and Dietz, K.J.					
High levels of gene flow constrain population structure in <i>Mucuna pruriens</i> (L.)	Pankaj Kumar Tripathi, Satya Narayan Jena, Tikam Singh Rana and N Sathyanarayana	DC. of northeast India. 2018. Plant Gene	2018	NIL	Sikkim University	NIL
Partial purification and characterisation of cytosolic fructose-1, 6-bisphosphatase from <i>Drymaria cordata</i> .	Sherpa ND, Mukhia R and Chhetri DR	Annals of Plant Sciences.	2018	NIL	Sikkim University	NIL
Isolation and characterization of an enzyme L-myo-inositol-1-phosphate synthase from bryopsida: <i>Brachymerium bryoides</i> Hook. ex Schwagr. found in Darjeeling hills.	Yonzone S, Chhetri DR and Roy SC	Int. .J. Cr. Res. Th.	2018	NIL	Sikkim University	NIL

<p>Habitat distribution modelling of seabuckthorn (<i>Hippophae salicifolia</i> D. Don.) in Sikkim, Eastern Himalaya,</p>	<p>Chettri A, Pradhan A, Sharma G, Pradhan BK and Chhetri DR</p>	<p>India. Ind. J. Ecol.,</p>	<p>2018</p>	<p>2</p>	<p>Sikkim University</p>	<p>2</p>
<p>Variation in antioxidant activity of a rattan species, <i>Plectocomia himalayana</i> Griff. by DPPH assay based on two different methods of methanolic extraction.</p>	<p>Mukhia R, Vashitha B and Chhetri DR</p>	<p>Res. J. Pharmacog. Phytochem</p>	<p>2018</p>	<p>NIL</p>	<p>Sikkim University</p>	<p>NIL</p>
<p>Study of red panda (<i>Ailurus fulgens fulgens</i>) in ex-situ facility for conservation breeding at Himalayan Zoological Park, Darjeeling.</p>	<p>Roka B, Chand P, Rai U and Chhetri DR</p>	<p>Int. J. Zool. St.</p>	<p>2018</p>	<p>NIL</p>	<p>Sikkim University</p>	<p>NIL</p>

Indigenous knowledge and phytochemical screening of medicinal chuk from <i>Rhus chinensis</i> , <i>Docynia indica</i> , and <i>Hippophae salicifolia</i> in the Sikkim Himalaya.	Sharma GS, Chettri S, Pradhan BK, Chettri A and Chhetri DR	Indian Journal of Traditional Knowledge	2019	NIL	Sikkim University	NIL
An Evaluation of In vitro anti-inflammatory Activity of Ethnomedicinal Plants <i>Dendrocnide sinuata</i> (Blume) Chew and <i>Chenopodium ambrosioides</i> (L.).	Singh B, Qubra K, Chamlagai D, Jiwan Gurung J and Chhetri DR	Int. J. Pharm. Sci. Rev. Res.	2019	NIL	Sikkim University	NIL
Phytochemical screening, physico-chemical analysis and antioxidant activity of some ethnomedicinal plants from Sikkim Himalaya	Aita Rani Subba and Santosh Kumar Rai.	Indian Journal of Natural Products and Resources.	2018	NIL	Sikkim University	NIL

Begonia panchtharensis (Begoniaceae), a New Record to India from Sikkim, Eastern Himalaya	Pradhan, A, Chettri, A, Deliza, R, Barik, S. K.	Journal of Japanese Botany	2018	NIL	Sikkim University	NIL
Assessing semi-natural forests as population sink for pollinators in Mountainous agricultural field.	Gurung, S, Chettri, A, and Pradhan, A.	Ecology, Environment & Conservation	2019	NIL	Sikkim University	NIL
Allometric models for estimation of forest biomass in Northeast India	A J Nath, B K Tiwari, GW Sileshi, UK Sahoo, B Brahma, S Deb, N B Devi, A K Das, D Reang, SS Chaturvedi, O P Tripathi, D J Das, A Gupta	Forests	2019	NIL	Sikkim University	NIL
<b>Department of Horticulture</b>						



An efficient method for acclimatization: In vitro hardening of tissue culture raised tea plants [ <i>Camellia sinensis</i> (L.) O. Kuntze].	Bag N., Palni LMS and Nandi SK	Current Science	2019	NIL	Sikkim University	NIL
Nutrient and Elemental Composition of Wild Edible Ferns of the Himalaya.	Chettri S., Manivannan S. and Muddarsu VR.	American Fern Journal	2018	5	Sikkim University	5
Multivariate analysis of plant morphological characters for aluminium tolerance in cowpea genotypes under hydroponics.	Khuswaha JK and Manivannan S.	Research Journal of Biotechnology	2018	NIL	Sikkim University	NIL
Determination of nutritional profile of Himalayan filbert ( <i>Corylus ferox</i> )	Pabitra Subba, Sujata Upadhyay, VR Muddarsu, S Manivannan and Reymit Lepcha	The Pharma Innovation Journal	2018	NIL	Sikkim University	NIL

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Determination of Multi Element Profile of Himalayan Filbert ( <i>Corylus ferox</i> )	Pabitra Subba, Sujata Upadhyay, VR Muddarsu, S Manivannan and Anjana Pradhan	Journal of Pharmacognosy and Phytochemistry	2018	NIL	Sikkim University	NIL
Determination of nutritional profile of Nakima ( <i>Tupistra nutans</i> )	Reeya Gurung, Sujata Upadhyay, VR Muddarsu, S Manivannan and Trisna Gurung	The Pharma Innovation Journal	2018	NIL	Sikkim University	NIL
Determination of Multi -elemental Profile of Nakima ( <i>Tupistra nutans</i> )	Reeya Gurung, Sujata Upadhyay, VR Maddarsu, S Manivannan and Trisna Gurung	Journal of Pharmacognosy and Phytochemistry	2018	NIL	Sikkim University	NIL
Study on value addition and product diversification of Mallero ( <i>Elaeagnus latifolia</i> )	Reymit Lepcha, Sujata Upadhyay, VR Muddarsu, S Manivannan and RW Bhutia	The Pharma Innovation Journal	2018	NIL	Sikkim University	NIL
Efficacy of essential oil vapour phase against post-harvest fungal pathogen <i>Penicillium</i>	Tikbir Gurung, Laxuman Sharma, Saurav Das, Manju Rana	Journal of Mycopathol Research	2018	NIL	Sikkim University	NIL

digitatumisolated from Citrus reticulata Blanco.	And Pinkey Lhamu Lepcha					
Biomedical Applications of Microbially Engineered Polyhydroxyalkanoates : an Insight into Recent Advances, Bottlenecks and Solutions.	Akhilesh Kumar Singh, Janmejai K. Srivastava, J.K.Srivastava, Anuj K Chandel, Laxuman Sharma, Nirupama Mallick, Satarudra Prakash Singh	Applied Microbiology and Biotechnology	2019	1	Sikkim University	1
Characterization of pectin extracted from Citrus reticulata L. Blanco collected from different altitudes of Sikkim Himalaya,	Anjana Pradhan, Laxuman Sharma, Archana Tiwari, Prajwal Chettri	Journal of Applied and Natural Science	2019	NIL	Sikkim University	NIL
Nutraceutical potential of Ficus roxburghii an underutilized fruit of Sikkim Himalayas.	Pandey Yamuna, Upadhyay S., Manivannan S.,	Journal of Applied and Natural Science	2018	NIL	Sikkim University	NIL

	Sharma L. and Bhatt S.S.					
Phytochemical constituent of some wild edible fruits of Sikkim Himalaya.	Pandey Yamuna, Upadhyay Sujata and Bhatt Siddharth Sb	Journal of Pharmacognosy and Phytochemistry	2018	NIL	Sikkim University	NIL
Proximate and Nutritional Analysis of Culantro (Eryngium foetidum)	Lepcha, T.T., Upadhyay, S., Manivannan, S., Bhutia, K.D., Sharma, L., and Muddarsu, V.R.	Journal of Pharmacognosy and Phytochemistry.	2018	NIL	Sikkim University	NIL
<b>Department of Microbiology</b>						
Mycobiome diversity in traditionally prepared starters for alcoholic beverages in India by high-throughput sequencing method.	Sha, S.P., Suryavanshi, M.S. and Tamang, J.P.	Frontiers in Microbiology	2019	2	Sikkim University	2
Diversity of yeasts and molds by culture-dependent and culture-independent	Sha, S.P., Suryavanshi, M.S., Jani, K., Sharma, A.,	Frontiers in Microbiology	2018	9	Sikkim University	9

<p> methods for mycobiome surveillance of traditionally prepared dried starters for the production of Indian alcoholic beverages.</p>	<p> Shouche, Y. and Tamang, J.P.</p>					
<p> Bacterial community in naturally fermented milk products of Arunachal Pradesh and Sikkim of India analysed by high-throughput amplicon sequencing.</p>	<p> Shangpliang, H.N.K., Rai, R., Keisam, S., Jeyaram, K. and Tamang, J.P.</p>	<p> Scientific Reports</p>	<p> 2018</p>	<p> 17</p>	<p> Sikkim University</p>	<p> 17</p>
<p> Traditional skill of ethnic people of the Eastern Himalayas and North East India in preserving microbiota as dry amyolytic starters.</p>	<p> Anupma, A., Pradhan, P., Sha, S.P. and Tamang, J.P.</p>	<p> Indian Journal of Traditional Knowledge</p>	<p> 2018</p>	<p> 6</p>	<p> Sikkim University</p>	<p> 6</p>
<p> The First Report of Phenotypic and</p>	<p> M Gajamer, VR., Bhattacharjee,</p>	<p> Microb Drug Resist.</p>	<p> 2018</p>	<p> 3</p>	<p> Sikkim University</p>	<p> 3</p>

Molecular Characterization of Extended-Spectrum Beta-Lactamase-Producing Uropathogens in Sikkim and Darjeeling Hills of India. M	A., Paul, D., Kapil, J., Sarkar, A., Singh, AK., Pradhan, N., and Tiwari, HK.					
Prevalence of antibiotic resistance in commensal Escherichia coli among the children in rural hill communities of Northeast India.	Singh, AK., Das, S., Singh, S., Gajamer, VR., Pradhan, N., Lepcha, YD., and Tiwari, HK.	PLoS ONE	2018	9	Sikkim University	9
E. coli encoding blaNDM-5 associated with community-acquired UTI cases with unusual MIC creep like phenomenon against Imipenem.	Gajamer, VR., Bhattacharjee, A., Paul, D., Deshamukhya, C., Singh, AK., Pradhan, N., and Tiwari, HK.	Journal of global antimicrobial resistance	2018	NIL	Sikkim University	NIL

Prevalence and Antibioqram Profile of Uropathogens Isolated from Symptomatic and Asymptomatic Female Patients with Urinary Tract Infections and its Associated Risk Factors: Focus on Cephalosporin.	Gajamer, VR., Singh, AK., Pradhan, N., Kapil, J., Sarkar, A., Tiwari, HK.	Research & Reviews: Journal of Medical Science and Technology.	2018	NIL	Sikkim University	NIL
Bacterial diversity in an alpine debris-free and debris-cover accumulation zone glacier ice, North Sikkim, India.	Sherpa, M. T., Najar, I. N., Das, S., Thakur, N.	Indian Journal of Microbiology,	2018	5	Sikkim University	5
Microbial ecology of two hot springs of Sikkim: Predominate population and geochemistry.	Najar, I. N., Sherpa, M. T., Das, S., Thakur, N.	Science of The Total Environment,	2018	12	Sikkim University	12
Chryseomicrobium excrementi sp. nov., a Gram-stain-positive	Saha, T., Chakraborty, B., Das, S., Thakur,	International Journal of Systematic and	2018	NIL	Sikkim University	NIL

rod-shaped bacterium isolated from an earthworm ( <i>Eisenia fetida</i> ) cast.	N., Chakraborty, R.	Evolutionary Microbiology				
<b>Department of Zoology</b>						
An Evaluation of In vitro anti-inflammatory Activity of Ethnomedicinal Plants <i>Dendrocnide sinuata</i> (Blume) Chew and <i>Chenopodium ambrosioides</i> (L.).	Singh, B., Qubra, K., Chamlagai, D., Gurung, J., Chhetri, D.R.	International Journal of Pharmaceutical Science Review and Research	2019	NIL	Sikkim University	NIL
Study of the mosquito larval diversity in artificial breeding sites of Gangtok, Sikkim.	B. Singh, B., Gurung, J., Chakraborty, A.	International Journal of Mosquito Research	2019	NIL	Sikkim University	NIL
Elemental and Phytochemicals Profile in Ethno Medicinal Plants Used for Treating Cardiovascular	JP Rajan, RK Mishra and B. Singh	Asian Journal of Chemistry	2019	NIL	Sikkim University	NIL



Diseases by Mizo-Tribe of North Eastern India.						
A new record of the lesser-known butterfly Small Woodbrown <i>Lethe nicetella</i> de Nicéville, 1887 (Lepidoptera: Nymphalidae: Satyrinae) from Kangchendzonga National Park, Sikkim,	S Dewan, BK Acharya, S Ghatani	India Journal of Threatened Taxa	2019	NIL	Sikkim University	NIL
Kitam Bird Sanctuary, the only low elevation protected area of Sikkim: A conservation hotspot for butterflies in the Eastern Himalaya.	S Dewan, IK Chettri, K Sharma, BK Acharya	Journal of Asia-Pacific Entomology	2019	2	Sikkim University	2
Bird diversity of tea plantations in Darjeeling Hills, Eastern Himalaya, India.	A Chettri, K. Sharma, S. Dewan, B.K. Acharya	Biodiversitas	2018	2	Sikkim University	2

Butterfly diversity in human-modified ecosystems of southern Sikkim, the eastern Himalaya, India.	PK Chettri, K Sharma, S Dewan, BK Acharya	Journal of Threatened Taxa	2018	5	Sikkim University	5
Tokay Gecko: note on Gekko gekko (Linnaeus, 1758) with its recent sighting in Meghalaya.	Rai, A. and Chettri, B.	Zoo's Print	2019	NIL	Sikkim University	NIL
<b>School of Physical Sciences</b>						
<b>Department of Chemistry</b>						
Synthesis of super bright indium phosphide colloidal quantum dots through thermal diffusion.	Mitchell T. Clarke, Francesco Narda Viscomi, Thomas W. Chamberlain, Nicole Hondow, Ali M. Adawi, Justin Sturge, Steven C. Erwin, Jean-Sebastien G. Bouillard,	Communications Chemistry,	2019	2	Sikkim University	2

	Sudarsan Tamang and Graeme J. Stasiuk					
Tuning the redox non-innocence of a phenalenyl ligand toward efficient nickel-assisted catalytic hydrosilylation.	Gonela Vijaykumar, Anand Pariyar, Jasimuddin Ahmed, Bikash Kumar Shaw, Debashish Adhikari & Swadhin K. Mandal	Chemical Science	2018	1	Sikkim University	1
Vibrational, energetic-dynamical and dissociation properties of water clusters in static electric fields: Non-equilibrium molecular-dynamics insights.	Somendra Nath Chakraborty and Niall J.English	Chemical Physics Letters	2018	2	Sikkim University	2
Coherent XUV pulse induced resonant	Souvik Chatterjee	J Physics B	2019	NIL	Sikkim University	NIL

Auger process in Krypton atom.						
<b>Department of Computer Applications</b>						
Detecting Intrinsic Communities in Evolving Networks	Keshab Nath & Swarup Roy	Social Network Analysis and Mining	2019	1	Sikkim University	1
Qualitative Assessment of Functional Module Detectors on Microarray and RNASeq Data	M Jha, P H. Guzzi, and Swarup Roy	Network Modeling Analysis in Health Informatics and Bioinformatics	2019	NIL	Sikkim University	NIL
Intrinsic-Overlapping Co-expression Module Detection with Application to Alzheimer's Disease	Hazel N Manners, Swarup Roy and Jugal Kalita	Computational Biology and Chemistry	2018	3	Sikkim University	3
A Detection Framework for Semantic Code Clones and Obfuscated Code	A Sheneamer, Swarup Roy, Jugal Kalita	Expert Systems with Applications	2018	6	Sikkim University	6
Extracting Functional Modules from RNASeq	M Jha and Swarup Roy	Journal of Computational	2018	NIL	Sikkim University	NIL

Counts Using Ensemble of Clustering Based Module Detection Methods		and Theoretical Nanoscience				
An Incremental Parallel Approach for Finding Communities in Evolving Network	K Nath and Swarup Roy	Journal of Computational and Theoretical Nanoscience	2018	NIL	Sikkim University	NIL
A Data Reduction Scheme for Active Authentication of Smartphone Owners using Informative Apps Ranking	A Alzubaidi, Swarup Roy & J K Kalita	Digital Communications and Networks	2018	NIL	Sikkim University	NIL
Potential Effect of Tobacco Consumption Through Smoking and Chewing Tobacco on IL1beta Protein Expression in Chronic Periodontitis Patients: In Silico Molecular Docking Study	Majumder, P., Ray, P.P., Ghosh, S., Dey, S.K..	IEEE/ACM Transactions on Computational Biology and Bioinformatics.	2019	1	Sikkim University	1

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Internet of Things-based Real-Time Model Study on e-Healthcare: Device, Message Service and Dew Computing	Ray, P.P., Dash, D., De, D.	Computer Networks	2019	5	Sikkim University	5
Approximation of Fruit Ripening Quality Index for IoT based Assistive e-Healthcare	Ray, P.P., Dash, D., De, D.	Microsystem Technologies	2018	1	Sikkim University	1
A Systematic Review on Real-time Automated Measurement of IV Fluid Level: Status and Challenges	Ray, P.P., and Thapa N.	Measurement	2018	5	Sikkim University	5
Internet of Things based Approximation of Sun Radiative-Evapotranspiration (ETO) Models	Ray, P.P	Journal of Agrometeorology	2018	NIL	Sikkim University	NIL
Design of a Low Cost and Novel Naïve Bayes	Ray, P.P.	Biomedical Research	2018	NIL	Sikkim University	NIL

Classifier based NodeMCU Web Server for Fever Type Detection						
Continuous Glucose Monitoring: A Review of Sensor Systems and Prospects,	Ray, P.P.	Sensor Review.	2018	NIL	Sikkim University	NIL
<b>Department of Geology</b>						
Laboratory Analysis of Marshall Parameters of Dense Bituminous Macadam Mix using Waste Materials,	Shubham Bansal, Anil Kumar Misra, Tanuj Chopra, Purnima Bajpai	International Journal of Environmental Technology and Management	2018	2	Sikkim University	2
Identification of watershed preference management areas under water quality and scarcity constraints: Case of Jhajjar district watershed, India.	Ruchi Gupta, Anil Kumar Misra, Vaishali Shau	Applied Water Science	2019	NIL	Sikkim University	NIL

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Forensic assessment of a fail head wall of Hume Pipe Culvert: Focus on Geotechnical prospective.	Dharmendra Kumar Kumar Srivastava, Amit Srivastava, Anil Kumar Misra and Vaishali Sahu	International Journal of Sustainable Building Technology and Urban Development	2018	NIL	Sikkim University	NIL
Sustainability assessment of EPS-geofoam in road construction: a case study.	Dharmendra Kumar Kumar Srivastava, Amit Srivastava, Anil Kumar Misra & Vaishali Sahu	International Journal of Sustainable Engineering.	2018	1	Sikkim University	1
Green quaternary concrete composites: Characterization and evaluation of the mechanical properties.	Niragi Dave, Anil Kumar Misra, Amit Srivastava, Anil Kumar Sharma, S. K. Kaushik	Structural Concrete	2018	3	Sikkim University	3
Water demand and waste management with respect to projected urban	Anil Kumar Misra, Misbah Masoodi, Rohith P. Poyil, Naval Kishore Tewari	Beni-Suef University Journal of Basic and Applied Sciences	2018	NIL	Sikkim University	NIL



growth of Gurugram city in Haryana.						
Quantification of phase changes and hydration behavior studies of OPC-43 grade cement through powder X-RAY diffraction	Diptendu Roy, Anil Kumar Misra,	International Journal of Sustainable Building Technology and Urban Development	2018	NIL	Sikkim University	NIL
Microfossils, Microfacies and Depositional Environment of the Paleocene-Eocene Carbonates of the Shillong Plateau, Meghalaya	Borgohain, S., Borgohain, A., Burgahain, R., Tewari, V.C .and Ranjan, R.K	Journal of Indian Geological Congress	2018	NIL	Sikkim University	NIL
The Indian Summer Monsoon from a Speleothem Delta 18O Perspective – a Review	Nikita Kaushal, Sebastian F.M. Breitenbach, Franziska A. Lechleitner, Ashish Sinha, Vinod C. Tewari,	Quarternary	2018	NIL	Sikkim University	NIL

	Syed Masood Ahmad, Max Berkelhammer, Shraddha Band, Madhusudan Yadava, Rengaswamy Ramesh, Gideon M. Henderson					
Laboratory Analysis of Marshall Parameters of Dense Bituminous Macadam Mix using Waste Materials	Shubham Bansal, Anil Kumar Misra, Tanuj Chopra, Purnima Bajpai,	International Journal of Environmental Technology and Management	2018	2	Sikkim University	2
Identification of watershed preference management areas under water quality and scarcity constraints: Case of Jhajjar district watershed, India	Ruchi Gupta, Anil Kumar Misra, Vaishali Shau	Applied Water Science	2019	NIL	Sikkim University	NIL
Forensic assessment of a fail head wall of	Dharmendra Kumar	International Journal of	2018	NIL	Sikkim University	NIL

Hume Pipe Culvert: Focus on Geotechnical prospective	Srivastava, Amit Srivastava, Anil Kumar Misra and Vaishali Sahu,	Sustainable Building Technology and Urban Development				
Sustainability assessment of EPS- geofoam in road construction: a case study	Dharmendra Kumar Srivastava, Amit Srivastava, Anil Kumar Misra & Vaishali Sahu	International Journal of Sustainable Engineering.	2018	1	Sikkim University	1
Green quaternary concrete composites: Characterization and evaluation of the mechanical properties	Niragi Dave, Anil Kumar Misra, Amit Srivastava, Anil Kumar Sharma, S. K. Kaushik	Structural Concrete	2018	3	Sikkim University	3
Water demand and waste management with respect to projected urban growth of Gurugram city in Haryana	Anil Kumar Misra, Misbah Masoodi, Rohith P. Poyil, Naval Kishore Tewari	Beni-Suef University Journal of Basic and Applied Sciences	2018	NIL	Sikkim University	NIL

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Quantification of phase changes and hydration behavior studies of OPC-43 grade cement through powder X-RAY diffraction	Diptendu Roy, Anil Kumar Misra,	International Journal of Sustainable Building Technology and Urban Development	2018	NIL	Sikkim University	NIL
Microfossils, Microfacies and Depositional Environment of the Paleocene-Eocene Carbonates of the Shillong Plateau, Meghalaya	Borgohain, S., Borgohain, A., Burgahain, R., Tewari, V.C .and Ranjan, R.K	Journal of Indian Geological Congress	2018	NIL	Sikkim University	NIL
Generalized Fiedler Pencils For Rational Matrix Functions	Rafikul Alam and Namita Behera	Siam J. Matrix Anal. Appl.	2018	NIL	Sikkim University	NIL
Uniqueness of differential polynomials of meromorphic functions and small function sharing	Bipul Pal and Indrajit Lahiri	Afrika Matematika	2019	NIL	Sikkim University	NIL

On some categories of Riemannian manifolds	R.B. Yadav	Journal of Indian Mathematical Society	2019	NIL	Sikkim University	NIL
<b>Department of Physics</b>						
One-pot green synthesis of highly luminescent silicon nanoparticles using Citrus limon (L.) and their applications in luminescent cell imaging and antimicrobial efficacy	A Tiwari, YL Sherpa, AP Pathak, LS Singh, A Gupta, A Tripathi	Materials Today Communications	2019	2	Sikkim University	2
Experimental and first principle study of room temperature ferromagnetism in carbon-doped rutile TiO <sub>2</sub>	H Luitel, P Chettri, A Tiwari, D Sanyal	Materials Research Bulletin	2019	3	Sikkim University	3
Tuning photoluminescence quenching efficiency of reduced graphene	P Chettri, A Tiwari	Thin Solid Films	2019	1	Sikkim University	1

oxide substrates using silver nanoparticles						
Temperature and pressure induced Raman studies of oxide	T Mondal, A Tripathi, A Tiwari, J Zhang, T Shripathi, H Shinohara	Journal of Applied Physics	2018	NIL	Sikkim University	NIL
Effect of reaction parameters on morphology and photoluminescence of intrinsic and Mn-doped ZnS microspheres synthesized by hydrothermal method	TI Chanu, D Samanta, A Tiwari, S Chatterjee	Journal of Materials Engineering and Performance	2018	3	Sikkim University	3
Defect mediated magnetic transitions in Fe and Mn doped MoS <sub>2</sub>	MK Singh, P Chettri, A Tripathi, A Tiwari, B Mukherjee, RK Mandal	Physical Chemistry Chemical Physics	2018	NIL	Sikkim University	NIL
Hyperscaling violating geometry with	Subir Mukhopadhyay	Nuclear Physics B	2019	1	Sikkim University	1

magnetic field and Dc conductivity	and Chandrima Paul					
Fermionic spectrum from a domain wall in five dimensions	Subir Mukhopadhyay and Nishal Rai	Physical Review D	2018	1	Sikkim University	1
Translation across Disciplines: The Bodanis and Gamow Unconventional Physics Narratives	Bhattacharji, S., and Bhattacharyya, A.	Glocal Colloquies	2019	NIL	Sikkim University	NIL
One-pot green synthesis of highly luminescent silicon nanoparticles using Citrus limon (L.) and their applications in luminescent cell imaging and antimicrobial efficacy	A Tiwari, YL Sherpa, AP Pathak, LS Singh, A Gupta, A Tripathi	Materials Today Communications	2019	2	Sikkim University	2
Observation of electromagnetically induced absorption in 87Rb D2 line in strong	IH Subba and A Tripathi	Journal of Physics B: Atomic, Molecular and Optical Physics	2018	2	Sikkim University	2

transverse magnetic field						
Circular current and induced force in a molecular junction	Umesh Dhakal and Dhurba Rai	Journal of Phys.: Condens Matter	2019	NIL	Sikkim University	NIL
Magnetic field control of current through model graphene nanosheets	Umesh Dhakal and Dhurba Rai	Phys. Lett. A,	2019	1	Sikkim University	1
Commentary Three-Dimensional Hybrid Silicon Nanostructures for Surface Enhanced Raman Spectroscopy based Molecular Detection	Pathak, A.P. et al.	J Phys Astron	2018	NIL	Sikkim University	NIL
Femtosecond Laser induced, Nanoparticle Embedded Periodic Surface Structures on Crystalline Silicon for Reproducible and Multi-Utility SERS Platforms	Pathak, A,K. et al.	ACS Omega	2018	NIL	Sikkim University	NIL



One-pot green synthesis of highly luminescent silicon nanoparticles using Citrus limon (L.) and their applications in luminescent cell imaging and antimicrobial efficacy	Pathak, A.K. et al.	Materials Today Communications	2018	2	Sikkim University	2
Swift Heavy Ion Irradiation Assisted Si Nanoparticle Formation in HfSiOx Nano-composite Thin Films Deposited by RF Magnetron Sputtering Method	Pathak, A.P. et al.	Nucl Inst. Methods	2019	NIL	Sikkim University	NIL
Influence of the bottom metal electrode and gamma irradiation effects on the performance of HfO <sub>2</sub> based RRAM devices	Pathak, A.P. et al.	Rad Effects & Defects in Solids	2019	NIL	Sikkim University	NIL

Effects of ion irradiation on the structural and electrical properties of HfO <sub>2</sub> /SiON/Si pMOS capacitors	Pathak, A.P. et al.	Thin Solid Films	2019	NIL	Sikkim University	NIL
School of Professionals Studies						
<b>Department of Commerce</b>						
Dynamics Of Foreign Direct Investment Inflow and International Trade In Service Sectors: Indian Experience	Sinha Madhabendra and Abhijit Dutta,	Indian Journal of Commerce & Management Studies	2018	NIL	Sikkim University	NIL
Pit Lakes and Socio-Economic Status: An Explorative Study in Raniganj Coal Field Area of West Bengal, India	Madhabendra Sinha, Anjan Ray Chaudhury and Abhijit Dutta	IIS University Journal of Management	2018	NIL	Sikkim University	NIL
Price Dispartiy of Dual-Listed Companies (DLCs) in	Muthu Pandian B and Ravi Sekhar Vishal	Indian Journal of Research in Capital Markets	2019	NIL	Sikkim University	NIL

the equity market: Evidences from Indian Bourses With special reference to the Phrama Sector						
<b>Department of Education</b>						
Gender and nature in the matrilineal society of Meghalaya, India: Searching for ecofeminist perspectives	Bhutia, Y and Liarakou, G.	The Journal of Environmental Education	2018	NIL	Sikkim University	NIL
Attitude towards sex education among teachers and class XII students of Senior secondary schools of Tura	Bhutia, Y. and Momin, M.	International Journal of Education and Psychological Research	2018	NIL	Sikkim University	NIL
Frustration tolerance of adolescents among students of class XII in Nongstoin	Bhutia, Y. and Sungoh, B.	EDU World	2018	NIL	Sikkim University	NIL

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Attitude towards women empowerment of class XII girls students of Shillong	Bhutia, Y. and Sarkar, R.	International Journal of Education and Psychological Research	2018	NIL	Sikkim University	NIL
Mathematics anxiety in relation to academic achievement in mathematics among secondary school students of Dimapur	Bhutia, Y. & Jamir, Y.	EDUTRACKS	2018	NIL	Sikkim University	NIL
Challenges of Higher Education in North East.	TJMS, Raju	Inquisitive Teacher	2018	NIL	Sikkim University	NIL
Reflective Teaching Practices: A Key to Competency Development of Teachers	Soumita Ghosh & AnjuVerma	International Journal of Research in Humanities, Arts and Literature	2018	NIL	Sikkim University	NIL
Nehru-Ton Model Technologies for Blended Learning Between India & Vietnam Teacher	6(10): 65-72.R.S.S.Nehru and Ton Quang Cuong	International Journal for Research in Engineering Application &	2018	NIL	Sikkim University	NIL

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Education Programmes		Management (IJREAM)				
Contribution of Chhatrapati Shahu Maharaj Education in Pre-Independent India	RSS Nehru	International Journal of Education and Society	2018	NIL	Sikkim University	NIL
A Comparative Study On Inclusive Class Room Climate In School Education In The United States Of America And India	RSS Nehru	IMPACT: International Journal of Research in Humanities, Arts and Literature	2018	NIL	Sikkim University	NIL
Comparative Science Education and Teaching in India & West	RSS, Nehru	International Journal of Education and Society	2018	NIL	Sikkim University	NIL
Creative Innovations For 21st Inclusive Education	R.S.S.Nehru & K.BalaYogi	Journal of Applied Science and Computations	2019	NIL	Sikkim University	NIL
Teachers' Role, Attitudes towards Inclusion and its	Nehru and K.Balayogi	Review of Research	2018	NIL	Sikkim University	NIL

Facilities, Programs in the United States of America and India						
<b>Department of Management</b>						
Performance Evaluation of Banks in Bhutan: An Application of Balanced Score Card Approach	Pradhan, Aaditya; Murari, Krishna	IUP Journal of Bank Management	2019	NIL	Sikkim University	NIL
Determinants of Financial Performance of Banks in Bhutan: A Case study of Bhutan National Bank Ltd	Pradhan, Aaditya; Murari, Krishna	Bhutan Journal of Research & Development	2019	NIL	Sikkim University	NIL
Financial Service Quality and its Impact on Customer Satisfaction: Evidences from Indian Banking Sector	Murari, Krishna	Drishtikon: A Management Journal	2018	NIL	Sikkim University	NIL

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A Comparative Study of Power generating companies in India	Aditya Rai and A. Ravi Prakash	Journal of Commerce and Accounting Research	2019	NIL	Sikkim University	NIL
Influence of socio-environment factors towards acceptance of renewable energy products	Rai, R, Pradhan, B.B, Sharma, N.D, Jha. A.	Global Business & Finance Review	2019	NIL	Sikkim University	NIL
<b>Department of Mass Communication</b>						
Mediated Communication and Commoditization of the Female Gender: Discourse Analysis Indian News Magazines	Adhikari, S., & Guha, S.	Media Watch	2018	2	Sikkim University	2
Visibility and scope for Information and communication functions in India's development sector	Das, M.K.	The Journal of Development Communication	2018	NIL	Sikkim University	NIL

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Mainstream Indian media and Naga audience: Representation and perception	Yimchunger, J.	International Journal of Communication and Media Studies	2019	NIL	Sikkim University	NIL
A Historical Evaluation of the Kashmir Issue	Pandian, Arun and Basnett, Pooja	International Journal of Research and Analytical Reviews	2019	NIL	Sikkim University	NIL
Cultural Communication Pattern of Santal Community in Bishnupur	Chakraborty, Ronit., and Basnett, Pooja.	Research Journal of Humanities and Social Sciences	2018	NIL	Sikkim University	NIL
<b>Department of Music</b>						
Application of Abstract music in advertisement	Vedabala Samidha	International Journal of Research and Analytical Reviews	2018	NIL	Sikkim University	NIL
Raag Joge Rog Biyog	Dutta Krishnendu	Manan	2018	NIL	Sikkim University	NIL



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Siman Majhe Aseem Tumi; Ekti Kalanukramik Rooprekha	Dutta Krishnendu	Ebam Mahua	2018	NIL	Sikkim University	NIL
Matua Sangeet	Dutta Krishnendu	Manan	2019	NIL	Sikkim University	NIL
<b>Department of Tourism</b>						
Branding Rural Tourism	Singh, A.K.	Kurukshetra	2019	NIL	Sikkim University	NIL
<b>Center for Bioinformatics</b>						
Mycobiome diversity in traditionally prepared starters for alcoholic beverages in India by high-throughput sequencing method	Sha, S.P., Suryavanshi, M.S. and Tamang, J.P.	Frontiers in Microbiology	2019	2	Sikkim University	
Diversity of yeasts and molds by culture- dependent and culture-independent methods for mycobiome surveillance of	Sha, S.P., Suryavanshi, M.S., Jani, K., Sharma, A., Shouche, Y. and Tamang, J.P.	Frontiers in Microbiology	2018	9	Sikkim University	9

traditionally prepared dried starters for the production of Indian alcoholic beverages						
Bacterial community in naturally fermented milk products of Arunachal Pradesh and Sikkim of India analysed by high-throughput amplicon sequencing	Shangpliang, H.N.K., Rai, R., Keisam, S., Jeyaram, K. and Tamang, J.P.	Scientific Reports	2018	17	Sikkim University	17
Traditional skill of ethnic people of the Eastern Himalayas and North East India in preserving microbiota as dry amyolytic starters	Anupma, A., Pradhan, P., Sha, S.P. and Tamang, J.P.	Indian Journal of Traditional Knowledge	2018	6	Sikkim University	6
<b>School of Social Sciences</b>						
<b>Department of Economics</b>						
Restructuring the Economy of Women's	Jeta Sankrityayana	Review of Agrarian Studies	2019	NIL	Sikkim University	NIL

Work on the Assam-Dooars Tea Plantations						
Do the heterogeneous determinants of life satisfaction affect differently across borrowers of diverse credit sources? A propensity score approach	Tiken Das and Manesh Choubey	International Journal of Social Economics	2018	2	Sikkim University	2
Forecasting India's Total Exports: An Application of Univariate Arima Model	Smriti Prasad and Manesh Choubey	Journal of International Economics	2018	NIL	Sikkim University	NIL
Indigenous Knowledge from Livelihood Perspectives in Rural Households of Sikkim: An Analysis	Santosh Sharma, Rajendra Mistri, Abhijit Chettri, Binod Bhattarai, Manesh Choubey	Res. J. Humanities and Social Sciences	2018	NIL	Sikkim University	NIL
Migration, Ethnicity-based Movements and	Komol Singha	International Studies	2018	NIL	Sikkim University	NIL

State's Response – A Study of Assam						
Have Conflicts Affected Education? An Assessment from Manipur'	Komol Singha	Journal of Social Sciences	2018	NIL	Sikkim University	NIL
Understanding Bihari Labour Migrants in India's North-eastern Region	Sneha Mishra and Komol Singha	International Journal of Social Sciences Review	2018	NIL	Sikkim University	NIL
Does the Caste of the Firm Owner Play a Role in Access to Finance for Small Enterprises? Evidence from India	Rajesh Raj S.N. and Subash Sasidharan	Developing Economies	2018	2	Sikkim University	2
Productivity and Farm Income Differences of Ginger Cultivation in Sikkim	Yograj Sharma and Pradyut Guha	Productivity	2018	NIL	Sikkim University	NIL
Organic Tea Farming and Its Performance in Sikkim	Pradyut Guha	Indian Journal of Economics	2018	NIL	Sikkim University	NIL

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Status and Productivity Growth of Elementary Education in Sikkim	Amit Singh and Pradyut Guha	Indian Journal of Economics and Development	2018	NIL	Sikkim University	NIL
Measuring Women's Self Help Group Sustainability- A Study of Rural Assam	Tiken Das and Pradyut Guha	International Journal of Rural Management	2019	NIL	Sikkim University	NIL
Spatial and Temporal Dimension of Paddy Farming in India during Economic Liberalization Period	Pradyut Guha	Indian Journal of Economics	2019	NIL	Sikkim University	NIL
Implications of Walrasian General Equilibrium in Isopanishad – An Axiological Exploration	Rangalal Mohapatra	International Journal of Reviews and Research in Social Sciences	2019	NIL	Sikkim University	NIL
<b>Department of History</b>						
<b>Land Ownership in Andhra from Pre-Colonial to Colonial Period</b>	Vijay Kumar Thangellapali, V.J.	<b>Itihas.</b>	2018	NIL	Sikkim University	NIL

Buddhism and Environmentalism: A Case Study of Sikkim Through Buddhist Myths, Legends and Folk Lore.	Thendup, S.	Journal of the International Association of Buddhist Universities	2018	NIL	Sikkim University	NIL
<b>Department of International Relations</b>						
Sustainable Practices in Infrastructure Development of Asian Development Bank in Sikkim: An Assessment	Shraddha Rai	Journal of Emerging Technologies and Innovative Research	2019	NIL	Sikkim University	NIL
Making Gender lens work in understanding Border Security	Anuradha Thapa	Journal of Emerging Technologies and Innovative Research	2019	NIL	Sikkim University	NIL
British Strategic Interest in the Eastern Himalayan Region: A Study with Special Reference to Darjeeling and Sikkim	Rajeev Rai	Salesian Journal of Humanities and Social Sciences	2018	NIL	Sikkim University	NIL

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Cross Border Institutional Cooperation on Environmental Protection in Eastern Himalayan Region	Namrata Rai	Politics of Ecology	2018	NIL	Sikkim University	NIL
<b>Department of Law</b>						
Targeting the Vulnerable: Witch hunting and Violation of Women's Right in North East.	Mishra Praveen	Parisheelan	2018	NIL	Sikkim University	NIL
Interpretation of Penal Statues' A Critical Evaluation.	Mishra Praveen	Wisdom Herald	2018	NIL	Sikkim University	NIL
Do the Panels' Treat Different Countries Differently: A Comparison of the 'Panel Report in the India - Measures Concerning the Importation of Certain Agricultural Products	Mayank V.	Journal of World Trade	2018	NIL	Sikkim University	NIL

from the United States' and 'Panel Report in United States – Certain Measures Affecting Imports of Poultry from China”.						
<b>Department of Peace and Conflict Studies &amp; Management</b>						
Human Trafficking as Human Rights concern focusing India	Pradhan, Sapna, and Choudhury Sanghamitra	JONER	2018	NIL	Sikkim University	NIL
Impact of Rural Urban Migration on Urbanization Process in Assam	Das, Rippy and Sharma, Kabindra	Excellence International Journal of Education and Research	2018	NIL	Sikkim University	NIL
NGO's and Human Development in Rural Areas	Sharma, Kabindra and Das, Rippy	Ajanta -An International Multidisciplinary Quarterly Research Journal	2018	NIL	Sikkim University	NIL
<b>Department of Sociology</b>						



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Exclusion in Education among the Char Dwellers of Assam: An Empirical Analysis	Khandakar, Abdullah,* Thapa, Sandhya.	Social Action	2018	NIL	Sikkim University	NIL
Indigenous Knowledge from Livelihood Perspectives in Rural Households of Sikkim: An Analysis. .	Sharma, S., Mistri, R. Chettri, A., Bhattarai, B. and Choubey, M.	Research Journal of Humanities and Social Sciences.	2018	NIL	Sikkim University	NIL
Changing Religion among the Damai Community in Sikkim and its impact on their Traditional Folk Music.	Manger, Amit	International Journal of Research and Analytical Reviews	2018	NIL	Sikkim University	NIL
Balancing Home and Work : A Study on the working women in Sikkim,	Bhutia, Winkeyla	International Journal of Applied Social Science	2019	NIL	Sikkim University	NIL

**3.4.6 h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science) : 22.9 (h-index of Sikkim University)**

<b>Title of the paper</b>	<b>Name of the author</b>	<b>Title of the journal</b>	<b>Year of publication</b>	<b>h-Index (Journal h-Index)</b>	<b>Institutional affiliation as mentioned in the publication</b>	<b>Number of citations excluding self citations</b>
<b>School of Life Sciences</b>						
<b>Department of Botany</b>						
Interference between arsenic-induced toxicity and hypoxia.	Kumar, V., Vogelsang, L., Seidel, T., Schmidt, R., Weber, M., Reichelt, M., Meyer, A., Clemens, S., Sharma, S.S., and Dietz, K.J.	Plant Cell and Environment	2019	212	Sikkim University	3
Habitat distribution modelling of seabuckthorn (Hippophae salicifolia)	Chettri A, Pradhan A, Sharma G,	India. Ind. J. Ecol.,	2018	9	Sikkim University	2

D. Don.) in Sikkim, Eastern Himalaya,	Pradhan BK and Chhetri DR					
<b>Department of Horticulture</b>						
Nutrient and Elemental Composition of Wild Edible Ferns of the Himalaya.	Chettri S., Manivannan S. and Muddarsu VR.	American Fern Journal	2018	27	Sikkim University	5
<b>Department of Microbiology</b>						
Mycobiome diversity in traditionally prepared starters for alcoholic beverages in India by high-throughput sequencing method.	Sha, S.P., Suryavanshi, M.S. and Tamang, J.P.	Frontiers in Microbiology	2019	151	Sikkim University	2
Diversity of yeasts and molds by culture- dependent and culture-independent methods for mycobiome surveillance of traditionally prepared	Sha, S.P., Suryavanshi, M.S., Jani, K., Sharma, A., Shouche, Y. and Tamang, J.P.	Frontiers in Microbiology	2018	151	Sikkim University	9

dried starters for the production of Indian alcoholic beverages.						
Bacterial community in naturally fermented milk products of Arunachal Pradesh and Sikkim of India analysed by high-throughput amplicon sequencing.	Shangpliang, H.N.K., Rai, R., Keisam, S., Jeyaram, K. and Tamang, J.P.	Scientific Reports	2018	242	Sikkim University	17
Traditional skill of ethnic people of the Eastern Himalayas and North East India in preserving microbiota as dry amylolytic starters.	Anupma, A., Pradhan, P., Sha, S.P. and Tamang, J.P.	Indian Journal of Traditional Knowledge	2018	36	Sikkim University	6
The First Report of Phenotypic and Molecular Characterization of Extended-Spectrum Beta-Lactamase-	Gajamer, VR., Bhattacharjee, A., Paul, D., Kapil, J., Sarkar, A., Singh, AK.,	Microb Drug Resist.	2018	72	Sikkim University	3

Producing Uropathogens in Sikkim and Darjeeling Hills of India. M	Pradhan, N., and Tiwari, HK.					
Prevalence of antibiotic resistance in commensal Escherichia coli among the children in rural hill communities of Northeast India.	Singh, AK., Das, S., Singh, S., Gajamer, VR., Pradhan, N., Lepcha, YD., and Tiwari, HK.	PLoS ONE	2018	367	Sikkim University	9
Bacterial diversity in an alpine debris-free and debris-cover accumulation zone glacier ice, North Sikkim, India.	Sherpa, M. T., Najar, I. N., Das, S., Thakur, N.	Indian Journal of Microbiology,	2018	51	Sikkim University	5
Microbial ecology of two hot springs of Sikkim: Predominate population and geochemistry.	Najar, I. N., Sherpa, M. T., Das, S., Thakur, N.	Science of The Total Environment,	2018	275	Sikkim University	12
<b>Department of Zoology</b>						

Kitam Bird Sanctuary, the only low elevation protected area of Sikkim: A conservation hotspot for butterflies in the Eastern Himalaya.	S Dewan, IK Chettri, K Sharma, BK Acharya	Journal of Asia-Pacific Entomology	2019	39	Sikkim University	2
Bird diversity of tea plantations in Darjeeling Hills, Eastern Himalaya, India.	A Chettri, K. Sharma, S. Dewan, B.K. Acharya	Biodiversitas	2018	19	Sikkim University	2
Butterfly diversity in human-modified ecosystems of southern Sikkim, the eastern Himalaya, India.	PK Chettri, K Sharma, S Dewan, BK Acharya	Journal of Threatened Taxa	2018	10	Sikkim University	5
<b>School of Physical Sciences</b>						
<b>Department of Chemistry</b>						
Synthesis of super bright indium phosphide colloidal	Mitchell T. Clarke, Francesco Narda Viscomi,	Communications Chemistry,	2019	26	Sikkim University	2

quantum dots through thermal diffusion.	Thomas W. Chamberlain, Nicole Hondow, Ali M. Adawi, Justin Sturge, Steven C. Erwin, Jean-Sebastien G. Bouillard, Sudarsan Tamang and Graeme J. Stasiuk					
Vibrational, energetic-dynamical and dissociation properties of water clusters in static electric fields: Non-equilibrium molecular-dynamics insights.	Somendra Nath Chakraborty and Niall J.English	Chemical Physics Letters	2018	240	Sikkim University	2
<b>Department of Computer Applications</b>						
Detecting Intrinsic Communities in Evolving Networks	Keshab Nath & Swarup Roy	Social Network Analysis and Mining	2019	38	Sikkim University	1

Intrinsic-Overlapping Co-expression Module Detection with Application to Alzheimer's Disease	Hazel N Manners, Swarup Roy and Jugal Kalita	Computational Biology and Chemistry	2018	61	Sikkim University	3
A Detection Framework for Semantic Code Clones and Obfuscated Code	A Sheneamer, Swarup Roy, Jugal Kalita	Expert Systems with Applications	2018	225	Sikkim University	6
An Incremental Parallel Approach for Finding Communities in Evolving Network	K Nath and Swarup Roy	Journal of Computational and Theoretical Nanoscience	2018	53	Sikkim University	NIL
Potential Effect of Tobacco Consumption Through Smoking and Chewing Tobacco on IL1beta Protein Expression in Chronic Periodontitis Patients: In Silico Molecular Docking Study	Majumder, P., Ray, P.P., Ghosh, S., Dey, S.K..	IEEE/ACM Transactions on Computational Biology and Bioinformatics.	2019	75	Sikkim University	1
Internet of Things-based Real-Time	Ray, P.P., Dash, D., De, D.	Computer Networks	2019	139	Sikkim University	5



Model Study on e-Healthcare: Device, Message Service and Dew Computing						
Approximation of Fruit Ripening Quality Index for IoT based Assistive e-Healthcare	Ray, P.P., Dash, D., De, D.	Microsystem Technologies	2018	65	Sikkim University	1
A Systematic Review on Real-time Automated Measurement of IV Fluid Level: Status and Challenges	Ray, P.P., and Thapa N.	Measurement	2018	102	Sikkim University	5
<b>Department of Geology</b>						
Laboratory Analysis of Marshall Parameters of Dense Bituminous Macadam Mix using Waste Materials, International	Shubham Bansal, Anil Kumar Misra, Tanuj Chopra, Purnima Bajpai	Journal of Environmental Technology and Management	2018	23	Sikkim University	2

Sustainability assessment of EPS-geof foam in road construction: a case study.	Dharmendra Kumar Srivastava, Amit Srivastava, Anil Kumar Misra & Vaishali Sahu	International Journal of Sustainable Engineering.	2018	33	Sikkim University	1
Green quaternary concrete composites: Characterization and evaluation of the mechanical properties.	Niragi Dave, Anil Kumar Misra, Amit Srivastava, Anil Kumar Sharma, S. K. Kaushik	Structural Concrete	2018	39	Sikkim University	3
Laboratory Analysis of Marshall Parameters of Dense Bituminous Macadam Mix using Waste Materials	Shubham Bansal, Anil Kumar Misra, Tanuj Chopra, Purnima Bajpai,	International Journal of Environmental Technology and Management	2018	23	Sikkim University	2
Sustainability assessment of EPS-geof foam in road construction: a case study	Dharmendra Kumar Srivastava, Amit Srivastava, Anil Kumar Misra & Vaishali Sahu	International Journal of Sustainable Engineering.	2018	33	Sikkim University	1

Green quaternary concrete composites: Characterization and evaluation of the mechanical properties	Niragi Dave, Anil Kumar Misra, Amit Srivastava, Anil Kumar Sharma, S. K. Kaushik	Structural Concrete	2018	39	Sikkim University	3
<b>Department of Physics</b>						
One-pot green synthesis of highly luminescent silicon nanoparticles using Citrus limon (L.) and their applications in luminescent cell imaging and antimicrobial efficacy	A Tiwari, YL Sherpa, AP Pathak, LS Singh, A Gupta, A Tripathi	Materials Today Communications	2019	30	Sikkim University	2
Experimental and first principle study of room temperature ferromagnetism in carbon-doped rutile TiO <sub>2</sub>	H Luitel, P Chettri, A Tiwari, D Sanyal	Materials Research Bulletin	2019	115	Sikkim University	3
Tuning photoluminescence	P Chettri, A Tiwari	Thin Solid Films	2019	199	Sikkim University	1

quenching efficiency of reduced graphene oxide substrates using silver nanoparticles						
Effect of reaction parameters on morphology and photoluminescence of intrinsic and Mn-doped ZnS microspheres synthesized by hydrothermal method	TI Chanu, D Samanta, A Tiwari, S Chatterjee	Journal of Materials Engineering and Performance	2018	72	Sikkim University	3
Hyperscaling violating geometry with magnetic field and Dc conductivity	Subir Mukhopadhyay and Chandrima Paul	Nuclear Physics B	2019	258	Sikkim University	1
Fermionic spectrum from a domain wall in five dimensions	Subir Mukhopadhyay and Nishal Rai	Physical Review D	2018	363	Sikkim University	1
One-pot green synthesis of highly luminescent silicon nanoparticles using	A Tiwari, YL Sherpa, AP Pathak, LS Singh,	Materials Today Communications	2019	30	Sikkim University	2

Citrus limon (L.) and their applications in luminescent cell imaging and antimicrobial efficacy	A Gupta, A Tripathi					
Observation of electromagnetically induced absorption in 87Rb D2 line in strong transverse magnetic field	IH Subba and A Tripathi	Journal of Physics B: Atomic, Molecular and Optical Physics	2018	119	Sikkim University	2
Magnetic field control of current through model graphene nanosheets	Umesh Dhakal and Dhurba Rai	Phys. Lett. A,	2019	452	Sikkim University	1
One-pot green synthesis of highly luminescent silicon nanoparticles using Citrus limon (L.) and their applications in luminescent cell imaging and antimicrobial efficacy	Pathak, A.K. et al.	Materials Today Communications	2018	30	Sikkim University	2

<b>School of Professionals Studies</b>						
<b>Department of Mass Communication</b>						
Mediated Communication and Commoditization of the Female Gender: Discourse Analysis Indian News Magazines	Adhikari, S., & Guha, S.	Media Watch	2018	10	Sikkim University	2
<b>Center for Bioinformatics</b>						
Mycobiome diversity in traditionally prepared starters for alcoholic beverages in India by high-throughput sequencing method	Sha, S.P., Suryavanshi, M.S. and Tamang, J.P.	Frontiers in Microbiology	2019	151	Sikkim University	2
Diversity of yeasts and molds by culture-dependent and culture-independent methods for mycobiome surveillance of	Sha, S.P., Suryavanshi, M.S., Jani, K., Sharma, A., Shouche, Y. and Tamang, J.P.	Frontiers in Microbiology	2018	151	Sikkim University	9

traditionally prepared dried starters for the production of Indian alcoholic beverages						
Bacterial community in naturally fermented milk products of Arunachal Pradesh and Sikkim of India analysed by high-throughput amplicon sequencing	Shangpliang, H.N.K., Rai, R., Keisam, S., Jeyaram, K. and Tamang, J.P.	Scientific Reports	2018	242	Sikkim University	17
Traditional skill of ethnic people of the Eastern Himalayas and North East India in preserving microbiota as dry amyolytic starters	Anupma, A., Pradhan, P., Sha, S.P. and Tamang, J.P.	Indian Journal of Traditional Knowledge	2018	36	Sikkim University	6

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<b>3.4.7 Faculty participation in Seminars/Conferences and Symposia during the year :</b>						
<b>No. of Faculty</b>	<b>International level</b>		<b>National level</b>		<b>State level</b>	<b>Local level</b>
<b>Attended Seminars/ Workshops</b>	<b>Department</b>	<b>Count</b>	<b>Department</b>	<b>Count</b>	<b>NIL</b>	<b>NIL</b>
	Geography	2	Nepali	1		
	Mass Communications	1	Mass Communications	1		
	Peace and Conflict Studies & Management	4	Economics	1		
			Peace and Conflict Studies & Management	1		
<b>Presented papers</b>	<b>Department</b>	<b>Count</b>	<b>Department</b>	<b>Count</b>	<b>NIL</b>	<b>NIL</b>
	Geography	5	Geography	11		
	Psychology	8	Psychology	5		
	Nepali	15	Hindi	5		
	English	2	Nepali	16		
	Botany	2	English	4		
	Horticulture	1	Lepcha	1		
	Microbiology	7	Botany	1		
	Zoology	1	Horticulture	6		



	Physics	2	Zoology	1				
	Commerce	3	Geology	5				
	Education	1	Physics	5				
	Music	3	Commerce	1				
	Tourism	2	Education	7				
	Economics	1	Music	2				
	History	1	Tourism	1				
	International Relations	1	Economics	5				
	Peace and Conflict Studies & Management	1	International Relations	2				
			Peace and Conflict Studies & Management	1				
		Political Science	1					
<b>Resource Persons</b>	<b>Department</b>	<b>Count</b>	<b>Department</b>	<b>Count</b>	<b>Department</b>	<b>Count</b>		
	Anthropology	1	Anthropology	3			English	1
	Geography	4	Geography	7			Zoology	1
	Psychology	3	Psychology	1			Economics	2
	Nepali	5	Hindi	4			Law	5
	Botany	2	Nepali	14				
<b>NIL</b>								

	Horticulture	1	English	4	Peace and Conflict Studies & Management	3
	Microbiology	3	Botany	2	Political Science	1
	Chemistry	2	Horticulture	1	Sociology	1
	Geology	3	Zoology	4		
	Physics	4	Chemistry	8		
	Music	1	Geology	2		
	Tourism	2	Physics	9		
	Economics	2	Mass Communications	2		
	History	11	Music	1		
	Sociology	1	Economics	10		
			History	10		
			Law	5		
			Peace and Conflict Studies & Management	1		
			Political Science	2		
			Sociology	3		

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<b>3.5 Consultancy</b>			
<b>3.5.1 Revenue generated from Consultancy during the year</b>			
<b>Name of the Consultant(s) department</b>	<b>Name of Consultancy project</b>	<b>Consulting/Sponsoring Agency</b>	<b>Revenue generated (amount in rupees)</b>
Commerce	Outcome evaluation of 14 finance commission: determination of sustainable road map for 2020-25, taking into account impact of GST and other tax/non tax trends forecast	15 <sup>th</sup> Finance Commission	450000 (it has also been included in projects)

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

<b>Name of the Consultant(s) &amp; Department</b>	<b>Title of the Programme</b>	<b>Agency seeking training</b>	<b>Revenue generated (amount in rupees)</b>	<b>Number of trainees</b>
NIL				

<b>3.6 Extension Activities</b>			
<b>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</b>			
<b>Title of the Activities</b>	<b>Organising unit/ agency/ collaborating agency</b>	<b>Number of teachers coordinated in such activities</b>	<b>Number of students participated in such activities</b>
Cleanliness Drive	NSS Cell	3	35
Quiz Competition	NSS Cell	3	100
Cleanliness Drive	NSS Cell	3	40
Cleanliness Drive	NSS Cell	3	40
Cleanliness Drive	NSS Cell	3	35
International Yoga Day	NSS Cell	3	30
Swachhta Pakwada (Cleanliness Drive)	NSS Cell	3	25
Swachhta Pakwada (Poster Competition)	NSS Cell	3	30
Swachhta Pakwada (Cleanliness Drive)	NSS Cell	3	35
Swachhta Pakwada (Awareness Walk)	NSS Cell	3	35
Swachhta Pakwada (Street Play)	NSS Cell	3	45

Swachhta Pakwada (Exhibition)	NSS Cell	3	24
Orientation Program	NSS Cell	3	155
Blood Donation Camp	NSS Cell	3	75
Swachhta Hi-Seva (Cleanliness Drive)	NSS Cell	3	22
Swachhta Hi-Seva( Debate Competition)	NSS Cell	3	35
Swachhta Hi-Seva (Essay Competition)	NSS Cell	3	35
Swachhta Hi-Seva (Folk Performances)	NSS Cell	3	150
Swachhta Hi-Seva (Cleanliness Drive)	NSS Cell	3	35
Village Visit Drug Abuse Awareness Program	NSS Cell	3	40
Vigilance Awareness Week (Poster Competition)	NSS Cell	3	27
Vigilance Awareness Week (Walkathon)	NSS Cell	3	100
Vigilance Awareness Week (Display of Banner and Poster Exhibition)	NSS Cell	3	19

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Education day (Lecture on Dealing with Mental Health Issue)	NSS Cell	3	35
Workshop on 'Prevention of Child Sexual Abuse'	NSS Cell	3	63
Women's Day	NSS Cell	3	36

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**3.6.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year**

<b>Name of the Activity</b>	<b>Award/recognition</b>	<b>Awarding bodies</b>	<b>No. of Students benefited</b>
NIL			

**3.6.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year**

<b>Name of the scheme</b>	<b>Organising unit/ agency/ collaborating agency</b>	<b>Name of the activity</b>	<b>Number of teachers coordinated in such activities</b>	<b>Number of students participated in such activities</b>
Swachhta Pakwada	NSS Cell	Cleanliness Drive	3	35
Swachhta Pakwada	NSS Cell	Quiz Competition	3	100
Swachhta Pakwada	NSS Cell	Cleanliness Drive	3	40
Swachhta Pakwada	NSS Cell	Cleanliness Drive	3	40
Swachhta Pakwada	NSS Cell	Cleanliness Drive	3	35
International Yoga Day	NSS Cell	International Yoga Day	3	30
Swachhta Pakwada	NSS Cell	Swachhta Pakwada (Cleanliness Drive)	3	25



Swachhta Pakwada	NSS Cell	Swachhta Pakwada (Poster Competition)	3	30
Swachhta Pakwada	NSS Cell	Swachhta Pakwada (Cleanliness Drive)	3	35
Swachhta Pakwada	NSS Cell	Swachhta Pakwada (Awareness Walk)	3	35
Swachhta Pakwada	NSS Cell	Swachhta Pakwada (Street Play)	3	45
Swachhta Pakwada	NSS Cell	Swachhta Pakwada (Exhibition)	3	24
Orientation Program	NSS Cell	Orientation Program	3	155
Blood Donation	NSS Cell	Blood Donation Camp	3	75
Swachhta Hi-Seva	NSS Cell	Swachhta Hi-Seva (Cleanliness Drive)	3	22
Swachhta Hi-Seva	NSS Cell	Swachhta Hi-Seva( Debate Competition)	3	35
Swachhta Hi-Seva	NSS Cell	Swachhta Hi-Seva (Essay Competition)	3	35

Swachhta Hi-Seva	NSS Cell	Swachhta Hi-Seva (Folk Performances)	3	150
Swachhta Hi-Seva	NSS Cell	Swachhta Hi-Seva (Cleanliness Drive)	3	35
Drug Awareness Program	NSS Cell	Village Visit Drug Abuse Awareness Program	3	40
Vigilance Awareness Week	NSS Cell	Vigilance Awareness Week (Poster Competition)	3	27
Vigilance Awareness Week	NSS Cell	Vigilance Awareness Week (Walkathon)	3	100
Vigilance Awareness Week	NSS Cell	Vigilance Awareness Week (Display of Banner and Poster Exhibition)	3	19
Education day	NSS Cell	Education day (Lecture on Dealing with Mental Health Issue)	3	35
Child Abuse	NSS Cell	Workshop on 'Prevention of	3	63

		Child Sexual Abuse'		
Women's Day	NSS Cell	Women's Day	3	36
Writing Competition	ICC and National Commission for Women (NCW)	A National level writing competition for students on the theme "Legal Provisions for Women in India"	1	30
Debate	ICC	A debate competition on the Topic "Modern Families Still hold Women back"	1	10
Lecture	ICC	special lecture on 'Challenges of being a Women IPS Officer'	1	30

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<b>3.7 Collaborations</b>			
<b>3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year</b>			
<b>Nature of Activity</b>	<b>Participant</b>	<b>Source of financial support</b>	<b>Duration</b>
<b>School of Life Sciences</b>			
<b>Department of Microbiology</b>			
Participant	Miss Meera Ongmu Bhutia (PhD Scholar, Microbiology)	Sakura Science Fellowship DAICENTER, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan	14-21 October 2018
Participant	Miss Anu Anupma (PhD Scholar, Microbiology)	AIST Fellowship, 6th AIST International Imaging Workshop at DAICENTER, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan	20-27 January 2019
Participant	Miss Ranjita Rai (PhD Scholar, Microbiology)	AIST Fellowship, 6th AIST International Imaging Workshop at DAICENTER, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan	20-27 January 2019
Participant	Miss Pooja Pradhan (PhD)	AIST Fellowship, 6th AIST International Imaging Workshop at	20-27 January 2019

	Scholar, Microbiology)	DAICENTER, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan	
Participant	Miss Nilu Pradhan (PhD Scholar, Microbiology)	NER training programme on “Gene Cloning, Protein Biochemistry, Structure Biology & Bioinformatics”. Tata Memorial Centre, Advanced Centre for Treatment, Research and Education in Cancer , Kharghar, Navi Mumbai	4-15 February 2019
Project Diagnosing Water security in hard to reach mountainous areas with an environmental security framework”	Anil Kumar Misra	ICIMOD	1.5 years
<b>Department of Zoology</b>			
Workshop participant	Prerna Dhakal (PhD Scholar, Zoology)	Sakura Science Fellowship DAICENTER, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan	14-21 October 2018

Internship	Prajawlita Pattir (PhD Scholar, Zoology)	Two months Internship at Mahatma Gandhi National Council of Rural Education, Department of Education, Ministry of Human Resource and Development, Government of India	2018
Internship	Nabamallika (PhD Scholar, Zoology)	Two months Internship at Mahatma Gandhi National Council of Rural Education, Department of Education, Ministry of Human Resource and Development, Government of India	2018
Fellowship	Hirumoni Hazarika (PhD Scholar, Zoology)	Two months Summer Fellowship of Indian Academy of Sciences, Bangalore	2018
<b>Hindi Cell</b>			
10 days Video Conference on Hindi language		Sikkim University in collaboration with Department of Official Language, Ministry of Home affairs, New Delhi	10 -14 September 2018 & 24-28 September 2018

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

<b>3.7.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year</b>				
<b>Nature of linkage</b>	<b>Title of the linkage</b>	<b>Name of the partnering institution/ industry /research lab with contact details</b>	<b>Duration (From-To)</b>	<b>participant</b>
<b>School of Human Sciences</b>				
<b>Department of Psychology</b>				
Member	Executive Member	National Academy of Psychology (NAOP)	2018	Dr. Saurabh Maheshwari, Assistant Professor, Psychology
<b>School of Life Sciences</b>				
<b>Department of Microbiology</b>				
Workshop participant	Workshop participant	Sakura Science Fellowship DAICENTER, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan	14-21 October 2018	Miss Meera Ongmu Bhutia (PhD Scholar, Microbiology)
Workshop participant	Workshop participant	AIST Fellowship, 6th AIST International Imaging Workshop at DAICENTER, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan	20-27 January 2019	Miss Anu Anupma (PhD Scholar, Microbiology)
Workshop participant	Workshop participant	AIST Fellowship, 6th AIST International Imaging Workshop at DAICENTER, National Institute of	20-27 January 2019	Miss Ranjita Rai (PhD Scholar, Microbiology)

		Advanced Industrial Science and Technology (AIST), Tsukuba, Japan		
Workshop participant	Workshop participant	AIST Fellowship, 6th AIST International Imaging Workshop at DAICENTER, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan	20-27 January 2019	Miss Pooja Pradhan (PhD Scholar, Microbiology)
Workshop participant	Workshop participant	NER training programme on "Gene Cloning, Protein Biochemistry, Structure Biology & Bioinformatics". Tata Memorial Centre, Advanced Centre for Treatment, Research and Education in Cancer, Kharghar, Navi Mumbai	4-15 February 2019	Miss Nilu Pradhan (PhD Scholar, Microbiology)
<b>Department of Zoology</b>				
Workshop participant	Workshop participant	Sakura Science Fellowship DAICENTER, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan	14-21 October 2018	Purna Dhakal (PhD Scholar, Zoology)
Internship	Internship	Two months Internship at Mahatma Gandhi National Council of Rural Education, Department of Education, Ministry of Human Resource and Development, Government of India	2018	Prajawliita Pattir (PhD Scholar, Zoology)



Internship	Internship	Two months Internship at Mahatma Gandhi National Council of Rural Education, Department of Education, Ministry of Human Resource and Development, Government of India	2018	Nabamallika (PhD Scholar, Zoology)
Fellowship	Fellowship	Two months Summer Fellowship of Indian Academy of Sciences, Bangalore	2018	Hirumoni Hazarika (PhD Scholar, Zoology)
<b>School of Social Sciences</b>				
<b>Department of History</b>				
Member	Nominated Member	ICHR-NERC	2018	Dr Veenu Pant Associate Professor, History
<b>Department of Peace and Conflict Studies and Management</b>				
Chapter Coordinator	Honorary coordinator	Regional Head Quarter of NER, United Nations (Guwahati)	2018	Dr Sanghamitra Choudhury, Assistant Professor, Peace and Conflict Studies and Management

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

<b>3.7.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year</b>			
<b>Organisation</b>	<b>Date of MoU signed</b>	<b>Purpose and Activities</b>	<b>Number of students/teachers participated under MoUs</b>
Human Security Studies, Hyderabad	19th April 2019	academic and professional collaborations	University Students and Faculty Members

<https://cus.ac.in/index.php/en/academics-2/mou-signed-by-sikkim-university>

<b>CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES</b>		
<b>4.1 Physical Facilities</b>		
<b>4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year</b>		
<b>Budget allocated for infrastructure augmentation (in Lakhs)</b>	<b>Budget utilized for infrastructure development</b>	
2800	0 An amount of Rs.2666.57 Lakh was spent under Capital Head during the year 2018-19, out of unspent balance XII plan period (extended till 2018-19 from 2016-17).	
<b>4.1.2 Details of augmentation in infrastructure facilities during the year</b>		
<b>Facilities</b>	<b>Existing</b>	<b>Newly added</b>
Campus area	Currently university is operational from rented premises at Gangtok	
Class rooms	112	-
Laboratories	25	-
Seminar Halls	4	-
Classrooms with LCD facilities	112	-
Classrooms with Wi-Fi/ LAN	112	-
Seminar halls with ICT facilities	4	-
Video Centre	1	-
No. of important equipment	<b>School of Life Sciences</b>	-
	<b>Botany</b>	

purchased ( $\geq 1.0$ lakh) during the current year.	Cooling BOD Incubator shaker	131040	
	<b>Microbiology</b>		
	Laminar Air Flow	145907	
	<b>Zoology</b>		
	Real Time PCR	1500000	
	Nanodrop	500000	
	<b>School of Physical Sciences</b>		
	<b>Chemistry</b>		
	Glove Box	\$ 35000	
	<b>Computer Applications</b>		
	Computing Facility	121800	
	<b>Geology</b>		
	Aerosol Sampler	271400	
	Polarizing Petrological Microscope	409500	
	<b>Physics</b>		
	Probe Sonicator	348395	
	Faraday Effect Apparatus	149860	
Motorized X Y moving platform with Dual Axis Controller Software	152220		
Value of the equipment purchased during the year (Rs. in Lakhs)	126.424687		

<b>4.2 Library as a Learning Resource</b>			
<b>4.2.1 Library is automated {Integrated Library Management System (ILMS)}</b>			
<b>Name of the ILMS software</b>	<b>Nature of automation (fully or partially)</b>	<b>Version</b>	<b>Year of automation</b>
KOHA	<p>a. The Central Library of Sikkim University is fully automated using Integrated Library Management Software KOHA (v.20.11.11.000), an Open-Source Software. It is hosted at a server placed in house.</p> <p>b. The library is automated with RFID in 2012</p> <p>c. The Integrated library management system have following facilities:</p> <ul style="list-style-type: none"> <li>➤ <b>Acquisition</b> (Online Recommendation, Ordering, Receiving &amp; Billing)</li> <li>➤ <b>Cataloguing</b> (Allowing entering of metadata of books, periodicals, Z39.5, Inter Library Loan)</li> <li>➤ <b>Circulation</b> (RFID integrated shelf Check-in-Check-out, Smart Card)</li> <li>➤ <b>Automated Email Alerts</b> (Check-in, Check-Out, Overdue reminders)</li> <li>➤ <b>Serial Management</b> (Ordering &amp; Tracking of Periodicals)</li> </ul>	KOHA (v.20.11.11.000)	2012

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	<p>➤ The <b>Online Public Access Catalogue</b> available globally facilitating searching of books, online recommendations, dues payment etc</p>		
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<b>4.2.1 Library Services:</b>						
	<b>Existing</b>		<b>Newly added</b>		<b>Total</b>	
	<b>No.</b>	<b>Value</b>	<b>No.</b>	<b>Value</b>	<b>No.</b>	<b>Value</b>
Text Books	46409	457.95	2158	36.29	49928	494.24
Reference Books						
e-Books	828	171.56	8904	132.8	9881	304.36
Journals	102	19.92	73	30.43	134	50.35
e-Journals	2	22.36	4	23.46	8	45.82
Digital Database	5	26.06	9	38.51	16	64.57
CD & Video	726	0	0	0	737	0
Library automation	0	0	0	0	0	0
Weeding (Hard & Soft)	0	0	0	0	0	0
Others (specify)	1178	0	0	0	1178	0

**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**

<b>Name of the teacher</b>	<b>Name of the module</b>	<b>Platform on which module is developed</b>	<b>Date of launching e - content</b>
NIL			



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**4.3 IT Infrastructure**
**4.3.1 Technology Upgradation (overall)**

	<b>Total Computers</b>	<b>Computer Labs</b>	<b>Internet</b>	<b>Browsing Centres</b>	<b>Computer Centres</b>	<b>Office Departments</b>	<b>Available band width (MGBPS)</b>	<b>Others</b>	
<b>Existing</b>	676	20	*	1	-	5	32	1 gbps	-
<b>Added</b>	-	-	*	-	-	-	-	-	-
<b>Total</b>	676	20	*	1	-	5	32	1gbps	-

- All the systems are connected through dedicated LAN/ Wi-Fi Networks

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<b>4.3.2 Bandwidth available of internet connection in the Institution (Leased line)</b>	
1 MBPS /GBPS	
<b>4.3.3 Facility for e-content</b>	
<b>Name of the e-content development facility</b>	<b>Provide the link of the videos and media centre and recording facility</b>
NIL	

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<b>4.4 Maintenance of Campus Infrastructure</b>					
<b>4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year</b>					
<b>Assigned budget on academic facilities</b>	<b>Expenditure incurred on maintenance of academic facilities</b>		<b>Assigned budget on physical facilities</b>	<b>Expenditure incurred on maintenance of physical facilities</b>	
1800	Library	15631897	58.14	Maintenance of Academic Infrastructure or consumables and other running expenditures( excluding maintenance of hostels and allied services, rent of the building, depreciation cost, etc)	151269261
	New Equipment for Laboratories	3974649			
	Other expenditure on creation of Capital Assets (excluding expenditure on Land and Building)	11866931			
	1754.55				
				58.14	

**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)**

Laboratory: The laboratories in the various departments of the university have state-of-the-art provisions suitably designed for carrying out curriculum-based experiments and various research initiatives. Exhaustive use of such provisions demands periodic maintenance to be carried out. In the annual budget drawn and drafted for the university, a certain amount of capital grant is earmarked as expenditure for the maintenance and overhauling of laboratory equipment and computer systems. The laboratories in the university have a wide variety of equipment with diverse price range. In case of expensive laboratory instruments, maintenance is carried out on case to case basis and for computer systems and generic systems, Annual Maintenance Contract (AMC) is established for maintenance ease. Almost all of our high-end instruments are in the process of being enlisted in the **SIL** portal and made available for various stakeholders. A well-designed set of sequenced actions is stipulated to keep stock of instruments and their utilization by all the departments of the university.

Library: The library is an integral part of the university. Annually certain amount of capital grant is earmarked based on the temporal requirements of the library. The university library is not only accessible to the university faculty, students and staff, but also to faculty and student fraternity of the affiliated colleges as well as the local community.

Sports complex: Presently our university is functioning from rented premises because of which the university does not yet have any dedicated sports complex. Nevertheless, university has constituted a sports committee to manage sports and cultural activities of the university which are held at public sport facilities. University provides necessary grants for the conduct of the sport and cultural events on an annual basis for promoting holistic growth

and well-being of the students and staff as well as to inspire talented members among them.

Computers: The overall computational asset of the university is distributed over various academic departments, laboratories, libraries and administrative sections. Necessary clauses are incorporated in the purchase order to meet up to the initial maintenance requirements in terms of warranty agreements. Henceforth, immediately after the expiry of the warranty agreement, the items are placed under the Annual Maintenance Contract (AMC) for the said period. In the situation of system breakdown, the custodian of the asset is required to inform the AMC vendors regarding the same and request for arranging for the said maintenance as per the stipulated agreement with the university.

Classrooms: All the 32 departments of the university are operational from rented premises, for facilitating general maintenance needful clauses have been incorporated in the rental agreements signed with the owners of the premises for periodical maintenance work as and when requested. The cost incurred in maintenance related to electrical overhauling is entirely borne by the university.

<b>CRITERION V - STUDENT SUPPORT AND PROGRESSION</b>			
<b>5.1 Student Support</b>			
<b>5.1.1 Scholarships and Financial Support</b>			
	<b>Name /Title of the scheme</b>	<b>Number of students</b>	<b>Amount in Rupees</b>
Financial support from institution	Non NET Fellowship	*DSW	@ Rs.8000/- p.m. PhD @ Rs. 5000/- p.m. M.Phil
Financial support from institution	Scholarship for needy students	64	@ Rs. 3000/- p.m.
Financial support from institution	Freeship	64	Free Education
Financial support from institution	Halfship	48	50% of Tuition Fee waived
Financial support from other sources			
a) National	Maulana Azad National Fellowship, Ministry of Minority Affairs, UGC, GOI, Ministry of Minority Affairs, GOI	8	@ Rs.25,000/- p.m. for initial two years (JRF) @ Rs.28,000/- p.m. for remaining tenure (SRF)
	UGC: National Fellowship for OBC, UGC, GOI	8	@ Rs.25,000/- p.m. for initial two years (JRF) @ Rs.28,000/-

			p.m. for remaining tenure (SRF)
	UGC NET Fellowship	38	@ Rs.25,000/- p.m. for initial two years (JRF) @ Rs.28,000/- p.m. for remaining tenure (SRF)
	Rajiv Gandhi National Fellowship, Ministry of Social Justice and Empowerment for Scheduled Caste Ministry of Tribal Affairs for Scheduled Tribe	4	@ Rs.18,000/- p.m. for initial two years (JRF) @ Rs.24,000/- p.m. for remaining tenure (SRF)
	National Fellowship for Scheduled Tribe, Ministry of Tribal Affairs, GOI	4	@ Rs.28,000/- p.m.

<b>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.,</b>			
<b>Name of the capability enhancement scheme</b>	<b>Date of implementation</b>	<b>Number of students enrolled</b>	<b>Agencies involved</b>
Workshop	7-8 May 2018	30	Department of Psychology Sikkim University
“Teaching of English in Sikkim University: Methods and Approaches”	13-14 June 2018	55	Department of English Sikkim University
Two Days’ National Seminar on Nepali Lok Sahitya	13-14 November 2018	160	Sahitya Akademi and Department of Nepali, Sikkim University
Current Issues in Plant Sciences	1 June 2018	77	Department of Botany Sikkim University
Plant Photosynthesis and Productivity	1 March 2019	86	Department of Botany Sikkim University
National Conference Emerging Trends on Biological Sciences and Future Prospects	28-29 May 2019	105	DST-SERB, New Delhi
Open Data Kit (ODK) for Data collection, Database Management,	9-14 July 2018	28	NMHS, MoEF&CC, Govt. Of India



and Sampling Design and Methodologies			
Sampling Techniques and Identification of Odonates and Other Aquatic Insects	15-18 September 2018	23	NMHS, MoEF&CC, Govt. Of India
Data Management and Analysis for Biologists using R	25 February-09 March 2019	28	NMHS, MoEF&CC, Govt. Of India
Open Data Kit (ODK) for Data collection, Database Management, and Sampling Design and Methodologies	9-14 July 2018	28	NMHS, MoEF&CC, Govt. Of India
Sampling Techniques and Identification of Odonates and Other Aquatic Insects	15-18 September 2018	23	NMHS, MoEF&CC, Govt. Of India
Three days workshop on Blockchain Technology	28-30 March 2019	39	Sikkim University, EICT Academy, IIT Guwahati
DST INSPIRE Science Camp	20 December 2018 to 24 December 2019	100	DST
IUCAA workshop on Astronomy and Astrophysics	29-31 March 2019	50	IUCAA
International Yoga Day	21 June 2018	30	NSS

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

<b>5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year</b>					
<b>Year</b>	<b>Name of the scheme</b>	<b>Number of benefited students by Guidance for Competitive examination</b>	<b>Number of benefited students by Career Counselling activities</b>	<b>Number of students who have passed in the competitive exam</b>	<b>Number of students placed</b>
2018-19	Placement Orientation Program	N.A.	50	N.A.	N.A.
2018-19	Campus recruitment of ICICI Bank	10	N.A.	8	8
2018-19	Campus Recruitment Drive by Thomson Digital	9	N.A.	1	1
2018-19	Campus Recruitment Drive by	14	N.A.	6	6

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	Kervy Ltd				
2018-19	Campus Recruitment Drive by Flipcart	10	N.A.	4	4

**5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year**

<b>Total grievances received</b>	<b>No. of grievances redressed</b>	<b>Average number of days for grievance redressal</b>
0	0	N.A.

<b>5.2 Student Progression</b>					
<b>5.2.1 Details of campus placement during the year</b>					
<b>On campus</b>			<b>Off Campus</b>		
<b>Name of Organizations Visited</b>	<b>Number of Students Participated</b>	<b>Number of Students Placed</b>	<b>Name of Organizations Visited</b>	<b>Number of Students Participated</b>	<b>Number of Students Placed</b>
<b>Department of Commerce</b>			<b>Department of Sociology</b>		
Karvy Ltd	14	6	Government and Non-Governmental Organizations	27	11
Flipkart	10	4	<b>Department of Chinese</b>		
Thompson Digital	9	1	Non-Governmental Organizations	18	5
<b>Department of Management</b>			<b>Department of Lepcha</b>		
Eduvirtuoso , Bangalore	11	6	Government	20	3
ICICI Bank	10	8	<b>Department of Nepali</b>		
			Government and Non-Governmental Organizations	31	3
			<b>Department of Zoology</b>		
			Government	20	2
			<b>Department of Computer Applications</b>		
			Government and Non-Governmental	17	7

	Organizations		
	<b>Department of Physics</b>		
	Government and Non- Governmental Organizations	17	8
	<b>Department of Mass Communications</b>		
	Government and Non- Governmental Organizations	7	7
	<b>Department of Tourism</b>		
	Government and Non- Governmental Organizations	27	8

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

<b>5.2.2 Student progression to higher education in percentage during the year</b>					
<b>Year</b>	<b>Number of students enrolling into higher education</b>	<b>Programme graduated from</b>	<b>Department graduated from</b>	<b>Name of institution joined</b>	<b>Name of Programme admitted to</b>
2018-19	7	PG	Department of Anthropology	N.A.	MPhil/PhD
2018-19	8 2 1	UG PG MPhil	Department of Psychology Department of Psychology Department of Psychology	N.A.	PG MPhil PhD
2018-19	2 1 3	PG PG M.Phil 1	Department of Geography Department of Geography Department of Geography	N.A.	MPhil PhD PhD
2018-19	12 1	UG PG	Department of Chinese Department of Chinese	N.A.	PG PhD
2018-19	3 1 1	PG PG M.Phil 1	Department of English Department of English Department of English	N.A.	MPhil PhD PhD
2018-19	1	PG	Department of Botany	N.A.	PhD
2018-19	20	UG	Department of Horticulture	N.A.	PG
2018-19	3	PG	Department of Zoology	N.A.	PhD

2018-19	6 1	PG PG	Department of Chemistry Department of Chemistry	N.A.	PhD MPhil
2018-19	1	PG	Department of Computer Applications	N.A.	PhD
2018-19	1	PG	Department of Geology	N.A.	PhD
2018-19	1	PG	Department of Mathematics	N.A.	PhD
2018-19	1 1	PG M.Phi 1	Department of Physics Department of Physics	N.A.	PhD PhD
2018-19	3	PG	Department of Mass communications	N.A.	MPhil
2018-19	3	PG	Department of Education	N.A.	PhD
2018-19	3 3	PG M.Phi 1	Department of Economics Department of Economics	N.A.	MPhil PhD
2018-19	10	PG	Department of History	N.A.	MPhil
2018-19	3	PG	Department of Political Science	N.A.	MPhil
2018-19	4	PG	Department of International Relations	N.A.	MPhil



<b>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)</b>			
<b>Items</b>	<b>No. of Students selected/ qualifying</b>		<b>Registration number/roll number for the exam</b>
<b>NET</b>	<b>Department</b>	<b>Coun t</b>	Not available-
	Anthropology	2	
	Psychology	4	
	Chinese	1	
	Hindi	2	
	English	2	
	Microbiology	1	
	Chemistry	3	
	Physics	1	
	Commerce	4	
	Management	2	
	Mass Communications	2	
	Tourism	1	
	Economics	12	
International Relations	1		
Sociology	6		
<b>SET</b>	<b>Department</b>	<b>Coun t</b>	
	Hindi	1	
	Sociology	1	
<b>SLET</b>	<b>Department</b>	<b>Coun t</b>	

		Psychology	1		
		Zoology	1		
		Physics	1		
<b>GATE</b>		<b>Department</b>	<b>Coun t</b>		
		Botany	1		
		Chemistry	4		
		Geology	1		
		Physics	1		
<b>GMAT</b>		-			
<b>CAT</b>		-			
<b>GRE</b>		-			
<b>TOFEL</b>		-			
<b>Civil Services</b>		-			
<b>State Government Services</b>		<b>Department</b>	<b>Coun t</b>		
		Nepali	3		
		Lepcha	3		
		Zoology	2		
		Computer Applications	1		
		Physics	7		
		Mass Communication	4		
		Tourism	8		
		Sociology	9		
<b>Any Other</b>		<b>Department</b>	<b>Coun t</b>		
		Bhutia	1		
		Computer Applications	6		
		Physics	1		

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	Commerce	11	
	Management	14	
	Mass Communication	7	
	Sociology	2	

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

<b>5.2.4 Sports and cultural activities / competitions organised at the institution level during the year</b>		
<b>Activity</b>	<b>Level</b>	<b>Participants</b>
Cultural Evening on 3 <sup>rd</sup> November 2018	University	Students, Sikkim University
“RAMAILO SU-KHIM”	University	Students, Sikkim University
An inter college photography Exhibition cum competition	Inter-College	Colleges from Sikkim
26 <sup>th</sup> to 28 <sup>th</sup> October 2018 at SMU Volleyball Court, Tadong, Gangtok	University	Students, Sikkim University

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

<b>5.3 Student Participation and Activities</b>						
<b>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)</b>						
<b>Year</b>	<b>Name of the award/ medal</b>	<b>National / International</b>	<b>Sports</b>	<b>Cultural</b>	<b>Student ID number</b>	<b>Name of the student</b>
2018-19	Long Jump Winners	University	*		-	Boys: Prosperwell Ingty
2018-19	Long Jump Winners	University	*		-	Girls: Lopamudra Parasai
2018-19	High Jump Winners	University	*		-	Boys: Subham Dutraj
2018-19	High Jump Winners	University	*		-	Girls: Tanuja Lagachu
2018-19	100 Metres Winners	University	*		-	Boys: Shaiphanson Synghon
2018-19	100 Metres Winners	University	*		-	Girls: Ghazala Mahjabeen Noori
2018-19	1600 Metres Winners	University	*		-	Boys:Naresh Kumar Adhikari
2018-19	1600 Metres Winners	University	*		-	Girls: Nirmala Rai
2018-19	Shot Put Winners	University	*		-	Boys: Prosperwell Ingty
2018-19	Shot Put Winners	University	*		-	Girls: Leomit Lepcha
2018-19	Relay Winners	University	*		-	Boys: Department of Commerce: Siddhart

						Sawan Bijay Chao
2018-19	Relay Winners	Universit y	*		-	Girls: Department of Psychology Disha Kashna Udita Devi Haman Babiangchine Madhupare Mandal
2018-19	200 Metres Winners	Universit y	*		-	Boys: Prosperwell Ingty
2018-19	200 Metres Winners	Universit y	*		-	Girls: Tanuja Lagachu
2018-19	Table Tennis Tournament Winners	Universit y	*		-	Boys: Alon Hang Subba
2018-19	Table Tennis Tournament Winners	Universit y	*		-	Doubles: Navnit Shekhar Pradhan and Alon Hang Subba
2018-19	Table Tennis Tournament Winners	Universit y	*		-	Girls: Parishmita Boruah
2018-19	Chess Tournament Winners	Universit y	*		-	Boys: Sahanshah Savena
2018-19	Chess Tournament Winners	Universit y	*		-	Girls: Suruchi Sharma
2018-19	Mobile Gaming Tournament Winners	Universit y	*		-	PUB-G: Department of Chinese Tarak Azim Ashutosh Gupta

						Saumya Dev Mandal Mohit Kumar Mobile Legends: Department of Horticulture Thomas Yumnam Kime Tare R.M. Wahengbam Khumancheirapam Alina Devi Ogam Tayeng
2018-19	Football Tournament Winners	Universit y	*		-	Boys: Department of Horticulture
2018-19	Football Tournament Winners	Universit y	*		-	Girls: Department of Lepcha
2018-19	Cricket Tournament Winners	Universit y	*		-	Boys: Department of Political Science
2018-19	Cricket Tournament Winners	Universit y	*		-	Girls: Department of Lepcha
2018-19	Volleyball Tournament Winners	Universit y	*		-	Boys: Department of Chemistry
2018-19	Volleyball Tournament Winners	Universit y	*		-	Girls: Department of Lepcha
2018-19	Tug of War Winners	Universit y	*		-	Department of Economics

2018-19	Basket Ball Tournament Winners	Universit y	*		-	Department of Law
2018-19	Badminton Tournament Winners	Universit y	*		-	Boys: Sourav Jyoti Hazarika
2018-19	Badminton Tournament Winners	Universit y	*		-	Girls: Iksha Rai
2018-19	Received 1st prize in Drama competition of Sikkim University	Universit y		*	-	UG and PG Students of Psychology Dept.
2018-19	Received 1st prize in Wall magazine event competition of Sikkim University	Universit y		*	-	UG and PG Students of Psychology Dept.
2018-19	Received 2nd prize in Fashion show event organised by Sikkim University	Universit y		*	-	UG and PG Students of Psychology Dept.
2018-19	Received 2nd prize in the Photography competition organised by Sikkim University	Universit y		*	-	Udita Devi
2018-19	Received 2nd prize in the Essay writing competition organised by Sikkim University	Universit y		*	-	Phunchog



2018-19	Received IIIrd prize in the Sketch competition organised by Sikkim University	Universit y		*	-	Diksha Sharma
2018-19	Received IIIrd prize in the Recycle & Reuse competition organised by Sikkim University	Universit y		*	-	Jugashree
2018-19	Best Videographer Award in UTHAN Youth Parliament, Delhi	National		*	-	Partha Pratim Hazarika

\* Denotes the respective category

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

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**5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)**

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The aim and objective of the Sikkim University Student Association (SUSA) is to act as a liaison between the students and the University administration with a motive of fostering welfare of the students belonging to the university and to safeguard interests of the students from corruption, deprivation, discrimination and exploitation of all kinds. SUSA is responsible for representing the students. Any grievance to be addressed concerning students welfare is routed through SUSA and Dean of Student Welfare to the university administration.

All the academic Departments of the University are required to nominate one departmental representative to assist the SUSA Executive Committee in its functioning in accordance with the SUSA Constitution. She/he shall bring forth the grievances and concerns of the students to the Executive Committee. SUSA makes efforts to promote, develop and recommend educational activities, and assists in development of overall academic ambience of the university conducive to the diverse needs of the society. SUSA has a representation in the academic council, where they have the opportunity to contribute to the holistic academic enrichment.

The SUSA is in relentless pursuit to promote social, cultural, sport and recreational activities, forums and other rhetorical activities to enhance student life. SUSA also actively contributes towards the welfare of the society while recognizing essential role of the students in building of the society and high moral values as well as cultivating environmental awareness for the conservation of nature.

SUSA also aims at promoting cordial relations with members of other Universities, Institutions and affiliated Colleges which are deemed necessary.

<b>5.3 Alumni Engagement</b>
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:
No
5.3.3 Alumni contribution during the year (in Rupees) :
No
5.3.4 Meetings/activities organized by Alumni Association :
No

**CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT****6.1 Institutional Vision and Leadership****6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)**

The success and prosperity of any educational institute rest on two strong pillars namely, academics and administration. A well-crafted balance is to be maintained between these two pillars for sound operation and delivery of the proposed institutional vision.

There are 32 academic departments in the university. Every department has a set of committees for managing its affairs such as the departmental purchase committee, departmental research committee, departmental curriculum drafting committee and departmental board of studies to name a few. Every committee has a well-defined set of roles and responsibilities as per the university ordinances and regulations. The nominated departmental head presides over the various activities of the committees. She/he acts as a nodal officer between the department and other institutional sections.

The 32 departments are placed under 6 different schools of studies, namely, the School of Human Sciences, School of Languages and Literature, School of Life Sciences, School of Physical Sciences, School of Professional Studies and School of Social Sciences. Each of these schools is headed by a Dean. The departmental head is required to coordinate with the Dean of the respective school for any academic matters. The Dean of the school periodically hosts the school board meeting. The school board has members from all the departments of the school and eminent academicians from other universities. It also has members from other schools of studies in the university. All the recommendations of the departmental board of studies are elaborately discussed in these meetings and appropriate decisions are taken. The

proceedings of all the school board's meeting are then presented before the academic council of the university, for consideration, deliberation and needful approval. The academic council is constituted with the Vice-Chancellor as the Chair, the Registrar, the Librarian, the Controller of Examinations, heads of all the departments, academic deans, dean of student Welfares, esteemed members from other universities and representatives for SUSA, SUNTA and SUTA.

The overall administration of the university is monitored and coordinated by Executive Council (EC), Finance Committee (FC), University Court and other committees/cells/positions (such as Anti-Discrimination Officer, Equal Opportunity Cell (EOC), Grievance Redressal Cell, Institutional Bio-safety Committee (IBSC), Internal Complaints Committee (ICC), Institutional Ethical Committee (IEC), Institution Innovation Council (IIC), Intellectual Property Rights (IPR), Internal Quality Assurance Cell (IQAC), Internal Audit Officer (IAO), Liaison Officer, Official Language Implementation Committee, Samadhan).

The EC is responsible for the conduct of all administrative affairs related to the management and administration of the University. Some of the notable responsibilities are the creation of teaching positions (number and emoluments), creating administrative, ministerial and other necessary posts, appointment to the various posts on the recommendation of the Selection Committee, regulating and enforcing discipline among employees and managing and regulating the finances, accounts, investments, property, business and all other administrative affairs of the University.

The annual accounts and the financial estimates of the University prepared by the Finance Officer shall be laid before the Finance Committee for consideration and comments and thereafter submitted to the Executive

Council for approval. The Finance Committee shall recommend limits for the total recurring expenditure for the year, based on the income and resources of the University.

At an annual meeting of the Court, a report on the working of the University during the previous year, together with a statement of the receipts and expenditure, the balance sheet as audited, and the financial estimate for the next year shall be presented. A copy of the statement of receipts and expenditure, the balance sheet and the financial estimates shall be sent to every member of the Court at least seven days before the date of the annual meeting.

**6.1.2 Does the institution have a Management Information System (MIS)?****Partial (Samarth)****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

To strike a neat and well-crafted balance between the discipline-specific knowledge requirement, the latest trends and developments the curriculum of the various programmes is periodically revised and refined. This elaborate exercise is executed with the aid of various committees like the curriculum development committee, departmental board of studies, school board and the academic council.

The curriculum development committee is constituted inviting members from the concerned department, affiliated colleges, and experts from eminent universities and industry experts. The drafted curriculum is then placed before the academic council upon the recommendation of the departmental board of studies, school board and the academic council.

## ❖ Teaching and Learning:

In order to enhance the Teaching and Learning outcome of the University, several measures have been introduced/implemented. Several lectures were organised by the experts of National and International repute by different departments. Adjunct/guest faculty with vast academic experience and achievements were appointed in different departments to enhance the teaching-learning capabilities for the benefit of students as well as younger faculty members.

## ❖ Examination and Evaluation

Evaluation process in academic is the prime component of the University, where Examination Department plays the lead role. During the 2018-19 period, the Examination Department conducted routine



End-Semester examinations for students from University Departments and from affiliated colleges. The Examinations Department also ensured, to the extent feasible, fast processing of results for the benefit of the students concerned. The average duration between the conclusion of Examinations and Publication of Examination Results in 2018-19 was less than 20 days. The Examinations Department also facilitates the conducting of the Central Admission Test (CAT) conducted by the University at eight centres in three different states. The results of these tests are processed in the minimum possible time in order to expedite the admission process. An automated system has been put in place by the Department for the online generation of Hall Tickets for all students at affiliated Colleges and University Departments. The Examination Department also conducts evaluation processes for MPhil and PhD students of the University. Department has also completed all registrations of newly admitted students (2018) in both affiliated colleges and University departments. Examination Department also performed examination work for newly introduced courses in affiliated colleges viz. B.Voc. (Pharmaceutical Chemistry, Tourism & Service Management, Retail Management, Software Development), B.Tech (Civil Engineering, Computer Science Engineering) and B.Sc (Nursing).

❖ Research and Development

The efforts have been consistently made to improve the research output across different schools of studies. The University has a system to provide research grants in the form of defined projects on a competitive basis. In addition, to encourage the faculty members to have high impact quality publications, the University provides incentive in the form of best publication award for each school. These measures have actually reflected in the improved publication record.

❖ Library, ICT and Physical Infrastructure / Instrumentation

During the year 2018-19 library has been actively engaged not only on procurement of resources, but also has given due emphasis on promotion of usages. Advertising resources and conducting various user awareness programmes were the priority areas during the year. Added 1936 printed books and 22 Elsevier Encyclopedia in e-version covering various disciplines including more than 92 PhD and MPhil Theses and Dissertations submitted by the students of Sikkim University. Most of the library budget was utilized for subscription of journals. Among the important databases have been full-text e-journals on Management, Tourism & Hospitality, Education (Ebscohost Database) Chinese Literature (CNKI), Psychology (PsycArticles).

In addition to subscribing some printed core journals in different disciplines, library has been availing the resources of INFLIBNET, DelCon consortium and National Digital Library. Total collection of the library reached 47930.

The university is operational from 112 classrooms and 25 laboratories across 32 academic departments with 4 seminar Halls. All the classrooms are equipped with LCD, Wi-Fi networking facilities.

❖ Human Resource Management

The university has 157 members in the faculty (full time) across 32 academic departments and 118 administrative staff for managing the administrative affairs of the university. Regular interviews are scheduled to fill the vacant position both in teaching and non-teaching cadres. The 118 administrative staff are located in academic departments as well as administrative sections. Human resource management is performed by the establishment section of the university.

❖ Industry Interaction / Collaboration

Various departments such as Horticulture, Computer Applications, Management, Mass Communication have a mechanism in place to organise internships to their students in relevant industrial and

commercial organisations. This exposure eventually helps them prepare and orient for professional career.

❖ Admission of Students

Admission for the academic year 2018-19 was carried by Office of the DSW. For the process, a working committee for admission was formed with the following members and DSW as the chairman.

1. Dr. Durga Chettri (Dept. of Political Science)
2. Dr. Swarup Roy (Dept. of Computer Applications)
3. Dr. Elangbam Ishwarjit Singh (Dept. of Geography)
4. Dr. Somendra Nath Chakraborty (Dept. of Chemistry)
5. Dr. Manoj Kumar Das (Dept. of Mass Communication)
6. Dr. Basundhara Chettri (Dept. of Zoology)
7. Mr. Bivek Tamang (Dept. of Commerce)
8. Mr. Veer Mayank (Dept. of Law)
9. Ms. Ashi P. Wangmo (Dept. of Tourism)
10. Ms. Dukmit Lepcha (Dept. of Lepcha)

The admission notification for 2018–19 was issued on April 10, 2018 and the last date for receipt of online application was given till mid-night on May 11, 2018. After the scrutiny, the list of eligible candidates along with the centers of examination was uploaded on May 20, 2018. The advertisement was made for five departments in UG, 31 departments in PG, 18 departments in M. Phil. and 26 departments in Ph. D. A total of 4037 applications was received out of which 3893 candidates were declared eligible for the writing the CAT [Central Admission Test]. There were 8 CAT centers viz. Namchi, Gangtok, Siliguri, Guwahati, Darjeeling, Kalimpong, Geyzing and Gyalsing.

Based on the CAT and selection procedure adopted, the first list of selected candidates was declared on June 16, 2018 and the admission to the first list started from 21st June 2018 and continued till June 24, 2018, and the second list was uploaded on June 30, 2018. The

admission for the second list was carried out from 3rd to 5th July, 2018. Counseling for the vacant seat was conducted on July 23, 2018. At the end of the admission process, a total of 868 students has been admitted against the intake capacity of 942 which, amounts to the 92.144 %. In total, 56.45% female candidates and 43.54 % of male candidates have been admitted. In the entire admission process reservation policy of central government was strictly followed.

Hostel admission was carried out and the procedure for the admission was followed uniformly for all the allocations. The main criteria for the allocation were:

Merit

- The candidate should not be from the conglomerate of Gangtok municipality.
- Reservation as per the central government guidelines.
- UG, PG and research scholars were allocated on the ratio of 3:6:1
- A total of 195 seats fall vacant [67 male and 128 female] against which allocations were made.

**6.2.2 : Implementation of e-governance in areas of operations:****❖ Planning and Development**

- a. Hindi website launched.
- b. Disability friendly website launched.
- c. Music website launched.
- d. OFC coverage to all locations.
- e. Online Admissions.
- f. Online Recruitment.
- g. Campus Connect Wi-Fi services.
- h. Official Email Service.
- i. NKN NMEICT related works.
- j. IT items, accessories and consumable procurements.
- k. Online complaints and grievance and feedback portal management.
1. E-Tendering system.

**❖ Administration**

- A separate website for the Department of Music was also launched.
- New file numbering system was introduced in the University to cater to the present and future needs of the University.
- Computer Network management and its security.
- Security audit of official website.
- CUP portal management.
- CCTV surveillance system management.
- University Website.
- IT support for Biometric devices.
- Computer AMC management.
- IT support for EPABX systems.
- IT support for video conferencing system in the university.
- IT support to various computer laboratories in the university.

- For implementation of the Official Language Policy, the University continues to issue all its Notifications, Office Orders, Sanction Orders, Leave Sanction Orders and Circulars in bilingual format (Hindi and English).

❖ **Finance and Accounts**

- One day workshop on EAT Module PFMS was organised by Finance Department on 7th August 2018 to aware the faculty members and non-teaching staff on the importance and implementation of EAT Module PFMS in the University.

❖ **Student Admission and Support**

- Admissions notification for 2018–19 was issued on 10th April 2018 and the last date for receipt of online applications was 11th May 2018. After the scrutiny, the list of eligible candidates along with the centres of examination was uploaded on 20th May 2018 in University website ([www.cus.ac.in](http://www.cus.ac.in)). The advertisement was made for five departments in UG, 31 departments in PG, 18 departments in M. Phil. and 26 departments in PhD. A total of 4037 applications were received out of which 3893 candidates were declared eligible for the writing the CAT [Central Admission Test]. There were 8 CAT centres viz. Namchi, Gangtok, Siliguri, Guwahati, Darjeeling, Kalimpong, Geyzing and Gyalsing.
- Based on the CAT and other selection procedures adopted, the first list of selected candidates was declared on 16th June 2018 and the admission to the first list started from 21st June 2018 and continued till 24th June 2018, and the second list was uploaded on 30th June 2018. The admission for the second list was held from 3rd to 5th July 2018. Counselling for the vacant seats was conducted on 23rd July 2018. At the end of the admission process, a total of 868 students has been admitted against the intake capacity of 942 (92.144 %). In total, 56.45% female candidates and

43.54 % of male candidates have been admitted. In the entire admission process reservation policy of central government was strictly followed.

- Hostel admission was carried out and the procedure for the admission was followed uniformly based on the following criteria:
  - Merit
  - The candidate should not be from the conglomerate of Gangtok municipality.
  - Reservation as per the central government guidelines.
  - UG, PG and research scholars were allocated on the ratio of 3:6:1 A total of 195 seats [67 male and 128 female] against which allocations were made.
- Sikkim University offers merit cum means scholarships for the students enrolled in the departments in various programmes. Students with an average family income of less than Rs. 60,000/- per annum and receiving no other financial assistance is eligible to apply for this scholarship. Accordingly, in 2018–19, Sikkim University awarded Fellowship @ Rs 3000/- per month to 64 students. Similarly, 64 full free-ship and 48 half free-ship were awarded for the needy students. A total of 91.7 % of applicants were able to secure one or the other type of scholarship.
- Sikkim University has elected students' body called Sikkim University Students' Association [SUSA]. It was first constituted on 3rd October 2016 following the election held on 23rd September 2016. Sikkim University through DSW successfully conducted the third election on 19.09.2018 and accordingly third elected SUSA Executive Committee was constituted on 24th September 2018 where the Vice-Chancellor as Chief Patron took the oath of the newly elected Office Bearers of SUSA.

❖ **Examination**

- Evaluation process in academic is the prime component of the University, where Examination Department plays the lead role. During the 2018-19 period, the Examination Department conducted routine End-Semester examinations for students from University Departments and from affiliated colleges. The Examinations Department also ensured, to the extent feasible, fast processing of results for the benefit of the students concerned. The average duration between the conclusion of Examinations and Publication of Examination Results in 2018-19 was less than 20 days. The Examinations Department also facilitates the conducting of the Central Admission Test (CAT) conducted by the University at eight centres in three different states. The results of these tests are processed in the minimum possible time in order to expedite the admission process. An automated system has been put in place by the Department for the online generation of Hall Tickets for all students at affiliated Colleges and University Departments. The Examination Department also conducts evaluation processes for MPhil and PhD students of the University. Department has also completed all registrations of newly admitted students (2018) in both affiliated colleges and University departments. Examination Department also performed examination work for newly introduced courses in affiliated colleges viz. B.Voc. (Pharmaceutical Chemistry, Tourism & Service Management, Retail Management, Software Development), B.Tech (Civil Engineering, Computer Science Engineering) and B.Sc (Nursing).
- EPABX introduced in Examination dept.
- ACTIVITIES DURING 2018-19:
  1. Work pertaining to examination for 16 affiliated colleges and 32 University academic departments.



2. Entrance test work related to Central Admission Test 2019..
4. Registration of all new admissions (2018) in both affiliated colleges and university departments.

<b>6.3 Faculty Empowerment Strategies</b>				
<b>6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year</b>				
<b>Year</b>	<b>Name of teacher</b>	<b>Name of conference/ workshop attended for which financial support provided</b>	<b>Name of the professional body for which membership fee is provided</b>	<b>Amount of support</b>
2018-19	Dr. Sudeep Ghatani	30 <sup>th</sup> National Congress of Parasitology & Global Summit on Malaria Elimination at JNU, New Delhi	N.A.	10,000
2018-19	Dr. Satyananda Panda	54 <sup>th</sup> National and 23 <sup>rd</sup> International Conference of India Academy of Applied Psychology (IAAP) at Kurukshetra University	N.A.	10,000
2018-19	Dr. Ram Bhawan Yadav	National Seminar at Banaras Hindu University, Varanasi	N.A.	10,000
2018-19	Dr. Pradyut Guha	NEEA Conference, Shillong	N.A.	6,500
2018-19	Dr. E. Ishwarjit Singh	13 <sup>th</sup> DSGI Geography International Conference at Bangalore University, Bangalore	N.A.	10,000
2018-19	Dr. Nidhi Saxena	International Seminar at Lucknow University, Lucknow	N.A.	10,000

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2018-19	Prof. Manesh Choubey	International Conference on Agribusiness in Emerging Economics at TERI University, Delhi	N.A.	10,000
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<b>6.3.2 Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year</b>					
<b>Year</b>	<b>Title of the professional development programme organised for teaching staff</b>	<b>Title of the administrative training programme organised for non-teaching staff</b>	<b>Dates (from-to)</b>	<b>No. of participants (Teaching staff)</b>	<b>No. of participants (Non-teaching staff)</b>
<b>School of Languages and Literature</b>					
<b>Department of English</b>					
2018-19	“Teaching of English in Sikkim University: Methods and Approaches” A Two-Day Workshop	N.A.	13-14 June 2018	55	N.A.
<b>School of Life Sciences</b>					
<b>Department of Botany</b>					
2018-19	Current Issues in Plant Sciences	N.A.	1 June 2018	77	N.A.
2018-19	Plant Photosynthesis and Productivity	N.A.	1 March 2019	86	N.A.
<b>Department of Zoology</b>					
2018-19	National Conference Emerging Trends on Biological	N.A.	28-29 May 2019	105	N.A.

	Sciences and Future Prospects				
2018-19	Open Data Kit (ODK) for Data collection, Database Management, and Sampling Design and Methodologies	N.A.	9-14 July 2018	28	N.A.
2018-19	Sampling Techniques and Identification of Odonates and Other Aquatic Insects	N.A.	15-18 September 2018	23	N.A.
2018-19	Data Management and Analysis for Biologists using R	N.A.	25 February-09 March 2019	28	N.A.
	Open Data Kit (ODK) for Data collection, Database Management, and Sampling Design and Methodologies	N.A.	9-14 July 2018	28	N.A.
2018-19	Sampling Techniques and Identification of Odonates and	N.A.	15-18 September 2018	23	N.A.

	Other Aquatic Insects				
<b>School of Physical Sciences</b>					
<b>Department of Computer Applications</b>					
2018-19	Three days workshop on Blockchain Technology	N.A.	28-30 March 2019	39	N.A.
2018-19	1 day lecture on Recent Trends on Bioinformatics	N.A.	23 February 2019	40	N.A.
<b>Department of Physics</b>					
2018-19	IUCAA workshop on Astronomy and Astrophysics	N.A.	29-31 March 2019	50	N.A.
<b>School of Professional Studies</b>					
<b>Department of Commerce</b>					
2018-19	Awareness and Interaction Session on NAROPA Fellowship	N.A.	16 February 2019	50	N.A.
<b>Department of Education</b>					
2018-19	Orientation Cum Workshop on Teaching through MOOCs Platform	N.A.	14-15 February 2019	30	N.A.
2018-19	Academic writings and referencing in Education and social sciences	N.A.	6-8 March 2019	30	N.A.

<b>Center for Bioinformatics</b>					
2018-19	Workshop on Bioinformatics in Eukaryotes Diversity	N.A.	8 September 2018	50	N.A.
<b>Central Library</b>					
2018-19	Orientation Programme	N.A.	20-30 August 2018	Faculty & Staff	N.A.
2018-19	User Awareness Programme on Elsevier & J-gate	N.A.	13 June 2018	Faculty & Staff	N.A.
2018-19	Awareness Programme on URKUND	N.A.	24 October 2018	Faculty & Staff	N.A.
2018-19	User Awareness Programme on EBSCO & J-gate	N.A.	14 March 2019	Faculty & Staff	N.A.
<b>Finance Department</b>					
2018-19	N.A.	One day workshop on EAT Module PFMS workshop	7 September 2018	N.A.	58
<b>Hindi Cell</b>					
2018-19	N.A.	Workshop on "Hindi Quarterly Report"	23 July 2018	N.A.	25
2018-19	N.A.	Workshop on "Hindi Typing"	28 December 2018	N.A.	08

2018-19	N.A.	Workshop on “Knowledge of Hindi Language – In context of Grammar”	29 March 2019	N.A.	22
2018-19	N.A.	10 days Video Conference on Hindi language	10 -14 September 2018 & 24-28 September 2018	N.A.	16
2018-19	Hindi Pakhawada	N.A.	4-17 September 2018	N.A.	30

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>



<b>6.3.3 No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year</b>		
<b>Title of the professional development programme</b>	<b>Number of teachers who attended</b>	<b>Date and Duration (from – to)</b>
Orientation Programme	8	18.02.2019- 17.03.2019, 28.06.2018- 25.07.2018, 04.02.2019- 01.03.2019, 04.09.2019- 24.09.2019, 04.09.2019- 24.09.2019, 15.11.2018- 12.12.2018, 21.07.2018- 17.08.2018, 08.10.2018- 02.11.2018
Refresher Course	10	26.02.2019- 18.03.2019, 26.02.2019- 18.03.2019, 05.02.2019- 25.02.2019, 24.07.2018- 13.08.2018, 05.02.2019- 25.02.2019,

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		05.03.2019- 28.03.2019, 10.12.2018- 31.12.2018, 15.09.2018- 05.10.2018, 10.12.2018- 31.12.2018, 05.02.2019- 25.02.2019
Short Term Course	1	18.03.2019- 29.03.2019 (Capacity Building Programme)
Faculty Development Programmes	NIL	NIL

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<b>6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):</b>			
<b>Teaching</b>		<b>Non-teaching</b>	
<b>Permanent</b>	<b>Fulltime</b>	<b>Permanent</b>	<b>Fulltime</b>
157	157	118	118

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<b>6.3.5 Welfare schemes for</b>	
Teaching	<ul style="list-style-type: none"><li>• Medical Facility</li><li>• Gymnasium Facility</li></ul>
Non-teaching	<ul style="list-style-type: none"><li>• Medical Facility</li><li>• Gymnasium Facility</li><li>• Subsidised Canteen Facility</li></ul>
Students	<ul style="list-style-type: none"><li>• Medicare Facility</li><li>• Subsidised Canteen Facility</li><li>• Transport Facility</li><li>• Gymnasium Facility</li></ul>

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**6.4 Financial Management and Resource Mobilization****6.4.1 Institution conducts internal and external financial audits regularly (with in 100 words each)**

Sikkim University is a Central University established by an act of Parliament on 2<sup>nd</sup> July, 2007. The primary and major source of fund received by the University is from University Grant Commission through approval of Ministry of Finance, Govt. of India. The University receives Grants under the following heads:

1. Salary
2. Recurring
3. Capital

**Internal Audit:** Internal Audit Officer of the University conducts Internal Audit of the University. The observations of the Audit are issued to the concerned Departments/Officials for timely compliances. In every periodic interval, the position of the pending Audit para are reviewed by Standing Audit Committee. The files are marked to the Internal Audit Officer for pre-audits too in important cases.

The status of the Audit Para along with report of the SAC is placed before the Finance Committee for further instructions.

**Statutory Audit:** External Audit of Annual Accounts are conducted by the Comptroller and Auditor General of India in compliance to Section 33(1) of the Sikkim University Act. Copy of the annual accounts together with the audit report is submitted to the Central Government which is placed before both Houses of Parliament as per prescribed guidelines Ministry of Finance, Govt. of India.

**Transaction Audit:** The Comptroller and Auditor General of India, also conducts the transaction audit of the University. The University complies the audit observations so issued through Standing Audit Committee and Finance Committee.

<b>6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)</b>		
<b>Name of the non government funding agencies/ individuals</b>	<b>Funds/ Grants received in Rs.</b>	<b>Purpose</b>
NIL	NIL	NIL
<b>6.4.2 Total corpus fund generated: NIL</b>		

<b>6.5 Internal Quality Assurance System</b>				
<b>6.5.1 Whether Academic and Administrative Audit (AAA) has been done?</b>				
<b>Audit Type</b>	<b>External</b>		<b>Internal</b>	
	<b>Yes/No</b>	<b>Agency</b>	<b>Yes/No</b>	<b>Authority</b>
Academic	YES			
Administrative Finance	YES	Comptroller and Auditor General of India	YES	IAO

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

**OA-3 ON THE BOARD OF STUDIES**

**Serial 1-V:** Not more than three teachers teaching the concerned subject from affiliated colleges nominated by the Vice-Chancellor on the recommendation of the Director, College Development Council.

**OA -4 ON THE SCHOOL BOARDS**

**Serial 1-VI:** Not more than three teachers, including retired teachers nominated by the Vice-Chancellor, who have expertise in the subjects around which the departments in the School are organised and who are not employees of the University or of any of its affiliated colleges/institutions.

**OC-1 ON THE ADMISSION OF STUDENTS TO THE UNIVERSITY INCLUDING ITS AFFILIATED COLLEGES**

**Serial 2:** The candidates seeking admission to a programme/course of study in the University, including its affiliated colleges, must satisfy the rules of the University.

**OD-1 ON THE ADMISSION OF COLLEGES AND INSTITUTIONS TO THE PRIVILEGES OF THE UNIVERSITY**

**Serial 13:** Temporary Affiliation

On receipt of permission to open a college/institution/subject/course of study, the applicant shall deposit the fees approved by the Authorities of the University from time to time and other such documents that the University may seek such as the evidence of fixed deposits for amounts prescribed by the UGC from time to time for Arts, Science, Commerce and Professional Courses. On completion of this the college/institution/subject/course of study is considered as temporarily affiliated and such affiliation shall remain valid for

one year only. The application for renewal of affiliation must be made at least one semester before the termination of the temporary affiliation.

### **OD-1 ON THE ADMISSION OF COLLEGES AND INSTITUTIONS TO THE PRIVILEGES OF THE UNIVERSITY**

#### **Serial 20: Fees**

The following shall be the fees to be paid by the affiliated colleges with 2% non-cumulative increase every year from the date of adoption of this Ordinance:

<b>Sl.No</b>	<b>Nature of Affiliation applied for</b>	<b>Amount of Fees to be paid in Rs.</b>
1	Temporary Affiliation of Institution	10,000
2	Permanent Affiliation of Institution	50,000
3	Temporary Affiliation of UG Pass Subject	5,000
4	Permanent Affiliation of UG Pass Subject	25,000
5	Temporary Affiliation of UG Honours Subject	8,000
6	Permanent Affiliation of UG Honours Subject	40,000
7	Temporary Affiliation of UG Professional Subject	10,000
8	Permanent Affiliation of UG Professional Subject	50,000
9	Temporary Affiliation of Certificate Course	3,000
10	Permanent Affiliation of Certificate Course	15,000
11	Temporary Affiliation of Diploma Course	5,000
12	Permanent Affiliation of Diploma Course	25,000
13	Temporary Affiliation of PG Subject	5,000
14	Permanent Affiliation of PG Subject	25000
15	Fixed Deposit for starting UG Programmes in Arts, Commerce and Science	15 lakhs or as prescribed by UGC
16	Fixed Deposit for UG Programmes in Professional Courses	35 lakhs or as prescribed by UGC

### **OD-2 ON THE COLLEGE DEVELOPMENT COUNCIL**



**Serial 2:** The Council shall be the Principal Advisory Body to the Academic Council in all matters relating to the affiliated colleges/institutions.

### **OD-2 ON THE COLLEGE DEVELOPMENT COUNCIL**

**Serial 3:** Constituent Members of the Council:

- Two Principals of affiliated Members colleges, of which one shall be from government college and one from private/missionary college by rotation in order of the date of establishment of a college.
- Two teachers of the Members affiliated colleges to be nominated by the Vice-Chancellor.

### **OD-2 ON THE COLLEGE DEVELOPMENT COUNCIL**

**Serial 9:** The Council shall have the following functions:

- i. To provide a forum for consideration of various aspects of education in the affiliated colleges/institutions of the University with a view to continuously improve the general educational standards in the colleges;
- ii. To help the affiliated colleges prepare developmental projects which may be financed by the state government or other funding agencies such as University Grants Commission;
- iii. To assess periodically the physical facilities in the affiliated colleges with reference to the number of students and the subjects taught and make recommendations to the UGC or state government for their improvement;
- iv. To review the academic performance of affiliated colleges from time to time and make suggestions for improvement;
- v. To review the examination systems and suggest innovations and improvement from time to time;
- v. To take action on the Inspection Reports on various colleges/institutions;

- vi. To prepare and maintain an up-to-date profile on each college/institution/subject/courses of study affiliated to the University, revising the existing facilities and identifying the needs and gaps that need to be filled for their development;

**OD-3 ON THE PG DEPARTMENTS IN COLLEGES AFFILIATED TO THE UNIVERSITY**

An affiliated college/institution may be granted the permission to teach PG courses in selected subjects on fulfillment of the criteria laid down in this Ordinance.

**OE-1 ON THE ACADEMIC CALENDAR OF THE UNIVERSITY**

Calendar for Colleges/Institutions affiliated with the University

**OE-3 ON THE CONVOCATION**

**Serial 6-i:** For the award of degree at the Convocation, candidates present shall be formally presented to the Chancellor/Vice-Chancellor for admission to their respective degrees. The Deans of respective Schools shall present the Master students of their Schools. The Principals of the affiliated colleges, nominated for the purpose by the Vice-Chancellor, shall present the undergraduate candidates for various degrees. The names of the recipients of medals and prizes shall be read out by the Registrar who shall also present the candidates for their degrees in absentia for admission to their respective degrees.

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

NIL

<b>6.5.4 Development programmes for support staff (at least three)</b>			
Library			
<b>Sl</b>	<b>Program</b>	<b>Date</b>	<b>Resource Person</b>
1	Orientation Programme	20-30 August 2018	1. Ms. Sarbada Pradhan, Sikkim University 2. Mr. Manish Soni, Sikkim University 3. Mr. Avijit Rai, Sikkim University
2	User Awareness Programme on Elsevier & J-gate	13 June 2018	1. Mr. Arnab De, Sr. Sales Manager, Elsevier 2. Mr. Sidharth Ghosh, Marketing Manager, Elsevier 3. Mr. Mahendranath Sarkar, Training Manager, J-Gate, NE Reigion
3	Awareness Programme on URKUND	24 October 2018	1. Prof. A S Chandel, Sikkim University 2. Ms. Sarbada Pradhan, Sikkim University 3. Mr. Manish Soni, Sikkim University
4	User Awareness Programme on EBSCO & J-gate	14 March 2019	1. Mr. R K Mohapatra (EBSCO) 2. Mr. Mahendranath Sarkar, Training Manager, J-Gate, NE Reigion
5	One day workshop on EAT Module PFMS workshop	07 July 2018	Sikkim University

6	Workshop on “Hindi Quarterly Report”	23 July 2018	Jutika Goswami, Hindi Translator, Sikkim University
7	Workshop on “Hindi Typing”	28 December 2018	Jutika Goswami, Hindi Translator, Sikkim University
8	Workshop on “Knowledge of Hindi Language – In context of Grammar”	29 March 2019	Jutika Goswami, Hindi Translator, Sikkim University
9	Video Conference on Hindi language Sikkim University in collaboration with Department of Official Language, Ministry of Home affairs, New Delhi	10-14 Sept 2018 & 24- 28 Sept 2018	Jutika Goswami, Hindi Translator, Sikkim University
10	Hindi Pakhawada Sikkim University	4-17 Sept 2018	Jutika Goswami, Hindi Translator, Sikkim University

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

**6.5.5 Post Accreditation initiative(s) (mention at least three)****6.5.6**

- a. Submission of Data for AISHE portal : (Yes)
- b. Participation in NIRF : (Yes)
- c. ISO Certification : (Yes)
- d. NBA or any other quality audit : (No)

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<b>6.5.7 Number of Quality Initiatives undertaken during the year</b>				
<b>Year</b>	<b>Name of quality initiative by IQAC</b>	<b>Date of conducting activity</b>	<b>Duration (from-----to--- ---)</b>	<b>Number of participants</b>
2018-19	Coordination Meeting of Internal Quality Assurance Cell	12 September 2018	from 03:30	15

**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**

NIL

**7.1.3 Differently abled (Divyangjan) friendliness**

<b>Items Facilities</b>	<b>Yes/No</b>	<b>No. of Beneficiaries</b>
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	-

<b>7.1.4 Inclusion and Situatedness</b>						
<b>Enlist most important initiatives taken to address locational advantages and disadvantages during the year</b>						
<b>Year</b>	<b>Number of initiatives to address locational advantages and disadvantages</b>	<b>Number of initiatives taken to engage with and contribute to local community</b>	<b>Date and duration of the initiative</b>	<b>Name of the initiative</b>	<b>Issues addressed</b>	<b>Number of participating students and staff</b>
2018-19	6	6	Gangtok, 13-14 June 2018 (2 Days)	“Teaching of English in Sikkim University: Methods and Approaches ”	English Learning	-
			15 November 2018	One day seminar on Reinterpretation of past Discourse on history, culture, language and literature of Lepcha	Promoting Local Culture	42



26 February 2019	One day experience sharing and tinteractive programme on Free flowing River from regional/ activist prospective Collaboratio n with ACT, SOS and SS	Support ing Local Cause	79
13-14 Novembe r 2012	Two Days' National Seminar on Nepali Lok Sahitya	Promoti ng Local Literatu re	160
20 Decembe r 2018 to 24 Decembe r 2019	DST INSPIRE Science Camp	Camp	100
14-15 February 2019	Orientation Cum Workshop on Teaching through MOOCs Platform	Orientat ion Program	30

<b>7.1.5 Human Values and Professional Ethics</b>		
<b>Code of conduct (handbooks) for various stakeholders</b>		
<b>Title</b>	<b>Date of Publication</b>	<b>Follow up (maximum 100 words each)</b>
THE SIKKIM UNIVERSITY ACT, 2006 No. 10 Of 2007	10.1.2007	<p>It discusses the following:</p> <ol style="list-style-type: none"> <li>1. Short title and Commencement</li> <li>2. Definitions</li> <li>3. Establishment of the University</li> <li>4. Objects of the University</li> <li>5. Powers of the University</li> <li>6. Jurisdiction</li> <li>7. University open to all classes, castes and creed</li> <li>8. The Visitor</li> <li>9. The Chief Rector</li> <li>10. Officers of the University</li> <li>11. The Chancellor</li> <li>12. The Vice-Chancellor</li> <li>13. The Pro-Vice-Chancellor</li> <li>14. The Deans of Schools</li> <li>15. The Registrar</li> <li>16. The Finance Officer</li> <li>17. The Controller of Examinations</li> <li>18. The Librarian</li> <li>19. Other Officers</li> <li>20. Authorities of the University</li> <li>21. The Court</li> <li>22. The Executive Council</li> <li>23. The Academic Council</li> <li>24. The College Development Council</li> <li>25. The Board of Studies</li> <li>26. The Finance Committee</li> </ol>

		<p>27. Other authorities of the University</p> <p>28. Power to make Statutes</p> <p>29. Statutes how to be made</p> <p>30. Power to make Ordinances</p> <p>31. Regulations</p> <p>32. Annual Report</p> <p>33. Annual Accounts</p> <p>34. Returns and Information</p> <p>35. Conditions of service of employees</p> <p>36. Procedure of appeal and arbitration in disciplinary cases against students</p> <p>37. Right to appeal</p> <p>38. Provident and pension funds</p> <p>40. Filling of casual vacancies</p> <p>41. Proceeding of authorities or bodies not invalidated by vacancies</p> <p>42. Protection of action taken in good faith</p> <p>43. Mode of proof of University record</p> <p>44. Power to remove difficulties</p> <p>45. Statutes, Ordinances and Regulations to be published in the Official Gazette and to be laid before parliament</p> <p>46. Transitional provision</p>
<p>THE SIKKIM UNIVERSITY STATUTES</p>	<p>-</p>	<p>It discusses the following:</p> <ol style="list-style-type: none"> <li>1. The Chancellor</li> <li>2. The Vice-Chancellor</li> <li>3. Powers and duties of the Vice-Chancellor</li> <li>4. Pro-Vice-Chancellor</li> <li>5. Deans of Schools</li> <li>6. The Registrar</li> </ol>

		<p>7. The Finance Officer</p> <p>8. The Controller of Examinations</p> <p>9. The Librarian</p> <p>10. Meetings of the Court</p> <p>11. Constitution of the Executive Council</p> <p>12. Powers and functions of the Executive Council</p> <p>13. Constitution of the Academic Council</p> <p>14. Powers and functions of the Academic Council</p> <p>15. Schools of Studies and Departments</p> <p>16. Board of Studies</p> <p>17. The Finance Committee</p> <p>18. Selection Committee</p> <p>19. Special mode of appointment</p> <p>20. Appointment for a fixed tenure</p> <p>21. Recognized teachers</p> <p>22. Committees</p> <p>23. Terms and conditions of service and code of conduct of the teachers, etc.</p> <p>24. Terms and conditions of service and code of conduct of other employees</p> <p>25. Seniority list</p> <p>26. Removal of employees of the University</p> <p>27. Honorary Degrees</p> <p>28. Withdrawal of degrees, etc</p> <p>29. Maintenance of discipline among students of the University</p>
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		<p>30. Maintenance of discipline among students of College, or an Institution not maintained by University</p> <p>31. Admission of Colleges, etc. to the privileges of the University</p> <p>32. Convocations</p> <p>33. Acting Chairman of meetings</p> <p>34. Resignations</p> <p>35. Disqualifications</p> <p>36. Residence condition for membership and office</p> <p>37. Membership of authorities by virtue of membership of other bodies</p> <p>38. Alumni association</p> <p>39. Students Council</p> <p>40. Ordinances, how made</p> <p>41. Regulations</p> <p>42. Delegation of Powers</p>
<p>THE SIKKIM UNIVERSITY FIRST ORDINANCES 2016</p>	<p>02.02. 2016</p>	<p>It discusses the following:</p> <p>1) OA SERIES ON DEPARTMENTS AND SCHOOLS</p> <ul style="list-style-type: none"> <li>• OA-1 ON THE DEPARTMENTS</li> <li>• OA-2 ON THE HEADS OF DEPARTMENTS</li> <li>• OA-3 ON THE BOARD OF STUDIES</li> <li>• OA-4 ON THE SCHOOL BOARDS</li> <li>• OA-5 ON THE DEANS OF SCHOOLS</li> <li>• OA-6 ON THE ASSIGNMENT OF DEPARTMENTS TO SCHOOLS</li> <li>• OA-7 ON THE DEANS' COMMITTEE</li> </ul>

		<p>2) OB SERIES ON TEACHERS, OFFICERS AND STAFF</p> <ul style="list-style-type: none"> <li>• OB-1 ON THE SCREENING AND SELECTION OF TEACHERS</li> <li>• OB-2 ON THE SERVICE CONDITIONS, SALARY SCALES, CLASSIFICATIO AND QUALIFICATIONS OF TEACHERS</li> <li>• OB-3 ON GOVERNING LEAVE TO TEACHERS OF THE UNIVERSITY</li> <li>• OB-4 ON THE CAREER ADVANCEMENT SCHEME</li> <li>• OB-5 ON THE TERMS AND CONDITIONS OF THE SERVICE OF THE VICE-CHANCELLOR</li> <li>• OB-6 ON THE TERMS AND CONDITIONS OF THE SERVICE OF THE REGISTRAR</li> <li>• OB-7 ON THE TERMS AND CONDITIONS OF THE SERVICE OF THE FINANCE OFFICER</li> <li>• OB-8 ON THE TERMS AND CONDITIONS OF THE SERVICE OF THE CONTROLLER OF EXAMINATIONS</li> <li>• OB-9 ON THE TERMS AND CONDITIONS OF THE SERVICE OF THE LIBRARIAN</li> <li>• OB-10 ON THE SCALES OF PAY AND ALLOWANCES AND SERVICE CONDITIONS OF NON-TEACHING (OTHER THAN STATUTORY)</li> </ul>
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		<p>EMPLOYEES OF THE UNIVERSITY FROM GROUP A TO C</p> <ul style="list-style-type: none"> <li>• OB-11 ON THE MINIMUM QUALIFICATIONS FOR DIRECT RECRUITMENT TO THE POSTS OF DEPUTY LIBRARIAN, ASSISTANT LIBRARIAN, DEPUTY REGISTRAR, ASSISTANT REGISTRAR, DIRECTOR OF PHYSICAL EDUCATION, DEPUTY DIRECTOR AND ASSISTANT DIRECTOR OF PHYSICAL EDUCATION</li> </ul> <p>3) OC SERIES ON STUDENTS</p> <ul style="list-style-type: none"> <li>• OC-1 ON THE ADMISSION OF STUDENTS TO THE UNIVERSITY INCLUDING ITS AFFILIATED COLLEGES</li> <li>• OC-2 ON THE MEDIUM OF INSTRUCTION AND EXAMINATION</li> <li>• OC-3 ON FEES PAYABLE BY STUDENTS</li> <li>• OC-4 ON THE STRUCTURE OF BACHELOR OF ARTS, SCIENCE, LAW, MEDICINE, EDUCATION, HOME SCIENCE, COMMERCE AND PROFESSIONAL COURSES</li> <li>• OC-5 ON THE MASTER'S DEGREE PROGRAMME IN ARTS, SCIENCE, LAW, MEDICINE, EDUCATION, HOME SCIENCE, COMMERCE AND PROFESSIONAL COURSES</li> </ul>
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		<ul style="list-style-type: none"> <li>• OC-6 ON THE MASTER OF PHILOSOPHY PROGRAMME</li> <li>• OC-7 ON THE DOCTOR OF PHILOSOPHY PROGRAMME</li> <li>• OC-8 ON THE AWARD OF DEGREES, DIPLOMAS AND CERTIFICATES</li> <li>• OC-9 ON THE POWERS AND FUNCTIONS OF THE DEAN, STUDENTS' WELFARE</li> <li>• OC-10 ON THE AWARD OF FELLOWSHIPS, STUDENTSHIPS, MEDALS AND PRIZES</li> <li>• OC-11 ON THE CONDITIONS OF RESIDENCE OF STUDENTS</li> <li>• OC-12 ON THE MAINTENANCE OF DISCIPLINE THE SIKKIM UNIVERSITY FIRST ORDINANCES</li> </ul> <p>4) OD SERIES ON AFFILIATED COLLEGES</p> <ul style="list-style-type: none"> <li>• OD-1 ON THE ADMISSION OF COLLEGES AND INSTITUTIONS TO THE PRIVILEGES OF THE UNIVERSITY</li> <li>• OD-2 ON THE COLLEGE DEVELOPMENT COUNCIL</li> <li>• OD-3 ON THE PG DEPARTMENTS IN COLLEGES AFFILIATED TO THE UNIVERSITY</li> </ul> <p>5) OE SERIES ON MISCELLANEOUS SUBJECTS</p>
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		<ul style="list-style-type: none"> <li>• OE-1 ON THE ACADEMIC CALENDAR OF THE UNIVERSITY</li> <li>• OE-2 ON THE SCHEDULE OF MEETINGS</li> <li>• OE-3 ON THE CONVOCATION</li> <li>• OE-4 ON THE WOMEN'S CELL</li> <li>• OE-5 ON THE ALUMNI ASSOCIATION</li> <li>• OE-6 ON THE REDRESSAL OF GRIEVANCES OF EMPLOYEES OE-7 ON RESEARCH PROJECTS</li> </ul>
REGULATIONS	<p>31.3.14</p> <p>28.6.14</p> <p>15.11.2014</p> <p>25.4.22</p> <p>28.06.2014</p> <p>21.11.2016</p> <p>21.11.2016</p> <p>01.12.2017</p> <p>11.09.2020</p> <p>11.09.2020</p> <p>01.12.2017</p>	<p>REGULATIONS</p> <p>RE 1- Regulation for meeting of the Executive Council</p> <p>RE 2- Regulations for Meeting of Academic Council</p> <p>RE 3- Regulations for the meetings of the Finance Committee</p> <p>RE 4- Regulations on Conduct of Examinations</p> <p>RE 5- Regulations of Alumni Association</p> <p>RE 6- Regulations on Endowments and other Trust Funds</p> <p>RE 7- B.Ed. part time Regulations</p> <p>RE 8- Regulation for Certificate and Diploma Courses</p> <p>RE 9- Regulation for conduct of MASTER OF PHILOSOPHY (MPhil) Programme</p> <p>RE 10- Regulation for conduct of DOCTOR OF PHILOSOPHY (Ph.D.) Programme</p>

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	-	RE 11- Regulation for conduct of the B. Voc Programme RE 12- Regulation for the meetings of the Court
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<https://cus.ac.in/index.php/en/su-act>

<https://cus.ac.in/index.php/en/statutes>

<https://cus.ac.in/index.php/en/ordinance>

<https://cus.ac.in/index.php/en/su-regulations>

<b>7.1.6 Activities conducted for promotion of universal Values and Ethics</b>		
<b>Activity</b>	<b>Duration (from-----to-- -----)</b>	<b>Number of participants</b>
An Analytical Overview of the Songs of Dr. Bhupen Hazarika Promoting Humanity and Universal Brotherhood Mr. Jayanta Barman, Assistant Professor, Department of Music.SU	25/09/2018	-
Protection of Children from Sexual Offences Act, 2012, organised by Department of Political Science, Sikkim University, 31 <sup>st</sup> July 2018 Dr. Sonam Yangchen Bhutia	31/07/ 2018	-
A cleanliness drive was organised to clean the vicinity in and around the NSS Cell, 5 <sup>th</sup> Mile on	05/05/2018	-
A cleanliness drive was organised to clean the vicinity in and around the University Central Library 6 <sup>th</sup> Mile	12/05/2018	-
A cleanliness drive was organised to clean the vicinity in and around Psychology Department, Bypass Gangtok	19/05/ 2018	-
Sikkim University observed the 'International Day of Yoga'	21/06/2018	-
A cleanliness drive was organised to clean the Vicinity in and around Library vicinity of Raap Jyor Cauveri Hall	07/09/2018	-
Poster Competition for NSS Volunteers of Sikkim University was organised on the theme Swachhata	07/09/2018	-

A cleanliness drive was organised to clean the vicinity in and around Administrative Block 6 <sup>th</sup> Mile	08/09/2018	-
Awareness walk on Swachhta theme.	13/09/2018	-
A street play was performed at M G Marg by the NSS Volunteers with the prior permission of Municipality	14/09/2018	-
Exhibition organised in the Raap Jyor Multipurpose Hall posters made by the NSS volunteers on importance of 'Swachhta' were exhibited.	15/09/2018	-
Orientation Program was organised for newly enrolled NSS Volunteers	11/09/2018	-
A blood donation camp was organized by NSS Sikkim University in association with central referral hospital	12/09/2018	-
A cleanliness drive was organised to clean the vicinity in and around 5 <sup>th</sup> Mile	24/09/2018	-
A debate competition was organised on the topic "Health is Life Greatest Hindrance" in Hindi/Nepali/ English	26/09/2018	-
An essay competition as part of Swachhat Hi-Seva activity was held on topic "Swachhata and Development are Complimentary" in Hindi/Nepali/ English.	-	-
NSS Day was celebrated by NSS volunteers	28/09/2018	-
A cleanliness drive was organised to clean the vicinity in and around Department of Hindi, Department of Music and Department of Mathematics		-
A Visit of Village Nimtar was organised on the issues of Drug and Substance Abuse	-	-

The NSS observed the Vigilance awareness week and organised various activities entrusted by the university. In the series of various events, the 'Poster Competition' for NSS Volunteers of Sikkim University was organised on the topic "Eradicating Corruption: Build a New India"	01/11/2018	-
NSS Cell has organised Walkathon	02/11/2018	-
banner and the poster exhibition with the aim of Vigilance Awareness	03/11/2018	-
Sikkim University NSS Cell celebrated education day and a lecture by Dr Divyashree S.	12/11/2018	-
A small workshop on 'Prevention of Child Sexual Abuse'	08/02/2019	-
A 'Drawing and Painting' competition was organised for NSS Volunteers on the theme "Women- Touch the Sky with Glory" on Women's Day	08/03/2019	-

<https://cus.ac.in/images/content/static/AQAR/2018-19/AQAR%202018-19/Annual%20Report%202018-19.pdf>

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

Department of Chemistry has a practice of collecting and safe disposal of Laboratory wastes produced during the experiments performed by the students and the research scholars.

Laboratory wastes are segregated and collected in the following ways:

**1. Organic Waste:-**

(a) **Constituents-** Organic Solvents like Petroleum Ether, Ethyl Acetate, Dichloromethane, Chloroform, Acetonitrile, Toluene, Acetone

(b) **Properties-** Low Boiling point, Flammable, Volatile

**2. Aqueous Waste or Inorganic Waste:-**

(a) **Constituents-** Water with different salts like Sodium Chloride, Sodium bicarbonate, Sodium Thiosulphate, Sodium Hydroxide

(b) **Properties-** Corrosive

**3. Acid Waste:-**

(a) **Constituents-**Hydrochloric Acid, Sulphuric Acid, Acetic Acid , Nitric acid

**Properties-**Corrosive, highly miscible in water

**4. Solid Waste:-**

(a) **Constituents-**Broken glassware

(b) **Properties-**Sharpe edge may penetrate through the skin

Department of Chemistry has entered into a service agreement and has become a lifetime member with **M/s West Bengal Waste Management Limited** for the safe disposal of the laboratory waste generated in the department

**8. Future Plans of action for next academic year (500 words)**

1. To speed up the development of permanent campus at Yangyang (South Sikkim).
2. Shifting of non-laboratory-based teaching departments to the permanent campus of the University at Yangyang.
3. Direct recruitment of permanent teaching faculty at different levels through rolling advertisement for the vacant positions.
4. Recruitment of non-teaching staff at different levels.
- 5.** Strengthening of infrastructure in terms of ICT-enabled facilities, library acquisitions, laboratories etc.
- 6.** Participation and improved performance in NIRF ranking 19-20.

## 7.2 Best Practices

**Describe at least two institutional best practices**

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

### **Teaching – Learning Process**

- Sikkim University releases academic calendar in the beginning of every academic calendar for planning stipulated academic commitments the same is uploaded in the university website for reference.
- Sound ICT provisions are made available in all the 112 classrooms of the 32 departments for motivating members in the faculty use ICT tool for conduct of the classes.
- Every teacher is mandated to strictly maintain attendance record of the students and in situation irregularity is observed the same is notified to the departmental heads for necessary action.
- Periodic tests and assignment work are scheduled for assessment of student's involvement in academic.
- Syllabus coverage is monitored by the departmental heads in regular intervals.
- Syllabus for various courses undergo periodic reviews to keep up with the discipline specific requirement and evolving trends, the same is uploaded in the university website for reference.

### **Mentoring System for Students**

- Students enrolled under various programmes like UG, PG, MPhil and PhD across various departments in the university are directly placed under the guidance and supervision of the departmental faculty members. The faculty members guides students in their minor dissertations, major dissertation, internships and field trips.
- During their minor dissertations and major dissertation the students perform their routine assignments apportioned by their respective mentors



and are rigorously assessed for performance during the tenure of the dissertation.

### 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**

One of the prime objectives of the university is to achieve intellectual, academic and cultural development of the people of Eastern Himalayas.

In pursuit of the same, our university has so far established 32 academic departments spread across 6 schools of studies, namely the School of Human Sciences, School of Languages and Literature, School of Life Sciences, School of Physical Sciences, School of Professional Studies and School of Social Sciences. The university has around 160 members in the faculty of various departments and 2700 students from all over India and overseas enrolled in various programmes such as UG, PG, M Phil and PhD offered by different departments. In an academic year, around 900 students graduate from the university. In addition to this, the university also produces around 80 M Phil and 70 PhD candidates.

To keep the curriculum framework on track and at par with other academic institutes of eminence, periodic curriculum revisions are made inviting experts from prominent academic institutions, industries, practitioners, civil society and non-profit agencies. The curriculum revisions are made keeping in view the recent trends, needs of the future and prospective opportunities. The curriculum also pays due regard to the requirements of the locality and the local community. In fact Sikkim University is the only university in the world which offers post-graduate courses in Bhutia, Lepcha and Limboo languages. Our university has granted affiliation to 18 colleges in the state of Sikkim. The university carries out the responsibilities of curriculum drafting, managing examinations and other academic affairs of these colleges.

In addition to teaching-learning activities, the faculty members of the university are engaged in diverse fields of research. This is evident from the number of annual publications and projects awarded to members of the faculty

by different governmental and non-governmental agencies. The List includes UGC, ICSSR, CEPF, JICA, DST, NMHS, GBPNIHED, DBT, SERB, ICMR, DST-Inspire, NMSHE, UNU-WIDER, ICHR, INSA, NERC-ICSSR, NEC, ICRIER, ICIMOD-HUC and Kendriya Hindi Sansthan.

The Scopus and WOS database lists around 330 and 280 articles respectively published by the members of faculty in the university. The number of publications in various refereed journals averages around 200 articles per year. The members of the faculty also do publish books and book chapters averaging over 70 publications. Currently, the faculty members from the university are engaged in around 50 ongoing projects inviting experts, JRF, SRF and Scholars from their respective fields.

The academic departments host various seminars, conferences, and workshops inviting experts from all around the globe throughout the year for knowledge exchange, student enrichment and mutual prosperity. The departments altogether organize around 50 such events annually.

Besides academics, the university also promotes students to actively participate in sports and cultural events at the regional, state and national level. SUSAs the student's body, SUTAs the teacher's body and SUNTAs the staff body of the university are actively engaged in executing various activities of academic and social importance.

The university is equally committed to societal responsibilities, through Unnat Bharat Abhiyan (UBA), Government of India. Sikkim University has adopted five villages in Yangang- Rangang GPU, South Sikkim. The UBA cell of Sikkim University till now has organized two Orientation programmes at Rangang - Yangang GPU.

The university is thus relentlessly striving to achieve its proposed vision.

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