

Yearly Status Report - 2018-2019

Part A					
Data of the Institution					
1. Name of the Institution	BANGALORE UNIVERSITY				
Name of the head of the Institution	Prof. Venugopal, K. R.				
Designation	Vice Chancellor				
Does the Institution function from own campus	Yes				
Phone no/Alternate Phone no.	08022961011				
Mobile no.	9844036885				
Registered Email	iqac@bub.ernet.in				
Alternate Email	panditpv12@gmail.com				
Address	Jnanabharathi, Bangalore University Bangalore - 560 056				
City/Town	Bengaluru				
State/UT	Karnataka				
Pincode	560056				

2. Institutional Status	
University	State
Type of Institution	Co-education
Location	Urban
Financial Status	state
Name of the IQAC co-ordinator/Director	Prof. M. Hanumathappa
Phone no/Alternate Phone no.	08022961141
Mobile no.	9448845485
Registered Email	panditpv@bub.ernet.in
Alternate Email	iqac@bub.ernet.in
3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://eng.bangaloreuniversity.ac.in/
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://eng.bangaloreuniversity.ac.in/a cademic-calendar-2018-19/

5. Accrediation Details

Cycle	Grade	CGPA	Year of	Vali	dity
			Accrediation	Period From	Period To
1	Five Star	3.12	2002	12-Feb-2002	12-Feb-2007
2	А	3.12	2008	16-Sep-2008	16-Sep-2013
3	A	3.16	2016	05-Nov-2016	05-Nov-2021

6. Date of Establishment of IQAC

01-Jan-1970

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture

	Item /Title of the quality initiative by IQAC		Date & Duration				Number of participants/ beneficiaries	
	Feedback from stu	Idents			1-2018 6		2432	
	Feedback from tea	achers			1-2018 5			274
	Self appraisal by teachers	7			1-2018 7	018 201		
	Organising semina conferences	ars and			g-2018 278 2			278
			No	o Files	Uploaded	!!!		
	8. Provide the list of Sp JGC/CSIR/DST/DBT/IC			-			ment-	
	Institution/Departmen t/Faculty	Scheme		Funding	g Agency		of award with duration	Amount
				Not Appli		!!!		
			No	o Files	Uploaded	!!!		
). Whether compositio IAAC guidelines:	n of IQAC as	per la	test	No			
l	Upload latest notification	of formation o	f IQAC		No Files Uploaded !!!			
	10. Number of IQAC m /ear :	eetings held	durino	g the	2			
d	The minutes of IQAC me lecisions have been uplo vebsite	•	•		Yes			
l	Upload the minutes of me	eeting and acti	ion take	en report	<u>View File</u>			
t	1. Whether IQAC rece he funding agency to s luring the year?		•	No				
1	2. Significant contribu	utions made	by IQA	C during	the current	year(m	naximum five	bullets)
E	ncouraging teache	rs to take	proj	ects				
S	Self Assessment re	ports by T	'eache	ers				
•	Feedback by Stude	nts about	the i	nstituti	ion and to	eacher	s	
	Incouraging depart Support online	ments to o	organi	ze confe	erences/se	eminar	rs by givin	g financial

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

Plan of Action	Achivements/Outcomes				
Encourage teachers to apply for funded projects	Teacher who wish to apply for projects are given proper administrativesupport				
• Steps initiated for implementation of the recommendation by the University	initiated				
• Collect student feedback on academic programmes faculty	Feedback collected from all the department P G Centers and analysed				
• Appraise the university authorities to take Necessary steps for the implementation of the recommendations of NAAC Peer team 3rd Cycle Report.	The university authorities are appraised of NAAC recoomendations				
No Files 1	Uploaded !!!				
14. Whether 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				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2019				
Date of Submission	14-Feb-2019				
17. Does the Institution have Management Information System ?	No				

Part B

.1 – Curriculum Design and Development							
1.1.1 – Programmes for which syllabus revision was carried out during the Academic year							
Name of Programme	Programme Code	Programme Specialization	Date of Revision				
MA	TU	Telugu	01/07/2018				
BTech MECH01 Mechanical 01/							
<u>View File</u>							

Programme with Code	Programm Specializat		Date of Introduction	Cours	e with Code	Date of Introduction	
MCom	Commer	ce	Nill		toms duty GST 4.4	Nill	
			<u>View File</u>				
2 – Academic Flexib	ility						
2.1 – New programme	es/courses intro	duced	during the Academic ye	ar			
Programme/C	ourse	Р	rogramme Specializatio	'n	Dates	of Introduction	
Nill			NA			Nill	
			No file uploaded	l.			
2.2 – Programmes in viversity level during th			Credit System (CBCS)/E	lective C	Course System	implemented at the	
Name of programmes adopting CBCS		Р	rogramme Specializatio	'n		nplementation of tive Course System	
MSc			ZOOLOGY		01	1/07/2018	
MA		P	Construction and roject Management		01	1/07/2018	
BTech		Me	chanical Engineer	01/07/2018			
MA			SOCIAL WORK		01	1/07/2018	
BTech		Ele	Electrical and ctronics Engineer				
Mtech	1	Power Systems			01	1/07/2018	
Mtech	1		Power Electronic	s	01	1/07/2018	
Mtech	1		Control and 01 Instrumentation			1/07/2018	
BA		Physical Education			01	1/07/2018	
MA		Physical Education			01/07/2018		
BTech	1	Engineering Physics			01/07/2018		
MSc			Physics		01/07/2018		
BTech	1	1	Engineering Physics		01/07/2018		
BTech	1	C	COMPUTER SCIENCE AND ENGINEERING		01/07/2018		
BTech	1	IN	INFORMATION SCIENCE AND ENGINEERING		01/07/2018		
Mtech	1	C	OMPUTER SCIENCE A ENGINEERING	AND	01/07/2018		
Mtech	1	IN	FORMATION TECHNO	LOGY	0	1/07/2018	
Mtech	1	(COMPUTER NETWORKI	NG	0	1/07/2018	
Mtech	1		WEB TECHNOLOGIE:	S	0	1/07/2018	
Mtech	1	S	OFTWARE ENGINEER	ING	01	1/07/2018	
Mtech	1		BIOINFORMATICS		01	1/07/2018	
BTech	1	Me	chanical Engineer	ring	0:	1/07/2018	

Mtech	Machine design	01/07/2018
Mtech	Manufacturing science	01/07/2018
мсесп	and Engineering	01/07/2018
Mtech	Thermal science and Engineering	01/07/2018
Mtech	Advanced Material Technology	01/07/2018
MA	URDU	01/07/2018
BTech	Electrical & Electronics Engineering	01/07/2018
Mtech	Power System, Power Electronics, Control & Instrumentation	01/07/2018
MA	TELUGU	01/07/2018
MA	Human Conciousness and Yogic Science	01/07/2018
BTech	Engineering Physics	01/07/2018
BTech	Electronics and Communication Engineering	01/07/2018
Mtech	Electronics and Communication Engineering	01/07/2018
.3 – Curriculum Enrichment		
I.3.1 – Value-added courses imparting	g transferable and life skills offered duri	ng the year
Value Added Courses	Date of Introduction	Number of Students Enrolled
Fashion and diversity	14/09/2018	24
QGIS open Source Software Application in GIS Research	04/10/2018	15
	<u>View File</u>	
I.3.2 – Field Projects / Internships und	der taken during the year	
Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
MCom	Financial Analysis	72
BA LLB	Criminology	4
	<u>View File</u>	
.4 – Feedback System		
1.4.1 – Whether structured feedback r	eceived from all the stakeholders.	
Students		Yes
Teachers		Yes
Employers		No
Alumni		Yes

Feedback Obtained

Annually, IQAC conducts department wise Student-feedback on teachers. A neutral third-party team collects the information. After receiving the feedbacks, information is analyzed, and teacher-wise details are submitted to each teacher. Generally, Vice-chancellor hands over the report to the concerned teacher and discusses the performance of the concerned faculty and if there is a need to suggest remedial measures. The feedback report is directed to the HOD for the guest faculties, before the departmental council. Other than this centralized process, many departments also independently conduct student-feedback processes in curriculum revision, pedagogical need, books, and other infrastructural requirements. The department council discusses the feedback received and suggests remedial measures. Counseling facilities are also extended to the concerned stakeholder if the situation demands.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 - Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled			
MA	English	90	200	84			
MA	Telugu	22	25	7			
	View File						

2.2 - Catering to Student Diversity

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

Year	Number of	Number of	Number of	Number of	Number of
	students enrolled	students enrolled	fulltime teachers	fulltime teachers	teachers
	in the institution	in the institution	available in the	available in the	teaching both UG
	(UG)	(PG)	institution	institution	and PG courses
			teaching only UG	teaching only PG	
			courses	courses	
2018	3900	7017	0	200	97

2.3 – Teaching - Learning Process

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

Number of teachers using ICT (LMS, e- Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used			
100	Nill	60	Nill	Nill			
No file uploaded.							
No file uploaded.							
	teachers using ICT (LMS, e- Resources)	teachers using ICT (LMS, e- Resources) nill No file	teachers using ICT (LMS, e- Resources)resources availableenabled Classrooms100Nill60No file uploaded.	teachers using ICT (LMS, e- Resources)resources availableenabled Classroomsclassrooms100Nill60NillNo file uploaded.			

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

In Bangalore University, all teaching department students are mentored by a nominated teacher supported by a guest faculty. Tutorial groups are formed for closer interaction to bridge the academic gaps students experience due to their diverse socio-economic backgrounds. Under the continuous assessment, students are provided with multiple opportunities. The mentor helps the students address their problems and support them in academic activities by making necessary interventions. Students are mentored for their academic performance within the department and are encouraged to take part in various academic and cultural activities outside the department.

academic as well as creating awarenes	personal p s on polici	problem ies and	ns. Pers prograi nents p	sonalized pr ms of the D	ofessional / epartment a s' roles in te	career a and routi rms of c	advice is gi ine proced	iven. N ures.	the mentor for both Mentors also guide in Sometimes alumni seeking internships,	
Number of students institution		in the	Nu	Imber of full	time teache	ers	Me	entor :	Mentee Ratio	
1093	L7			2	297				1:37	
2.4 – Teacher Profile		-								
2.4.1 – Number of full				-	-					
No. of sanctioned positions	No. of fi	illed pos	sitions	Vacant p	ositions	Positions filled during the current year		- 1	No. of faculty with Ph.D	
504		243		2	261		0		240	
2.4.2 – Honours and r nternational level from Year of Award	Governm	nent, rec	cognise full time	•	iring the yea		-	Na	ame of the award, vship, received from	
	s		el, nationa	onal level, I level				Govei	nment or recognized bodies	
2018		Dr	K Nİ:	rmala	Pr	YC (1		YOG (B	STATE LEVEL OPEN YOGA CHAMPIONSHIP (B grade in 21 to 5 years Age group)	
				<u>View</u>	<u>/ File</u>					
2.5 – Evaluation Pro 2.5.1 – Number of day he year Programme Name	rs from the		f seme	ster-end/ ye		Last da semes	n till the de ate of the l ter-end/ ye examinatio	ast ear-	tion of results during Date of declaration or results of semester- end/ year- end examination	
MSc	Lif	e Sci	ence	Si	xth	02	2/07/201	.8	21/11/2018	
				View	<u>/ File</u>					
2.5.2 – Average perce he examinations durin			compla	aints/grievar	nces about	evaluatio	on against	total	number appeared in	
	-	-		Total number of students appeared in the examination		eared		Pe	rcentage	
Number of complaint about evalu	uation		10018		5					
				10	018				5	
about evalu	1	nd Lea	rning (0018				5	
about evalu 50 2.6 – Student Perfor 2.6.1 – Program outco	1 mance ar omes, prog	gram sp	ecific o	Dutcomes	nd course of			grams		
about evalu 50 2.6 – Student Perfor 2.6.1 – Program outconstitution are stated and	1 mance ar omes, prog nd display	gram sp red in we	ecific o ebsite c	Dutcomes	nd course of tion (to prov	vide the	weblink)		s offered by the	
about evalu 50: 2.6 – Student Perfor 2.6.1 – Program outconstitution are stated and	1 mance ar omes, prog nd display ://eng.1	gram sp ved in we bangal	ecific o ebsite c	Dutcomes outcomes an of the institu	nd course of tion (to prov	vide the	weblink)		s offered by the	

			final ye examina		examination		
LLM-001	LLM	Criminol	ogy 33	3	32	97	
LLB-001	BA LLB	Criminol	ogy 74	Ŀ	67	10.54	
			<u>View File</u>				
2.7 – Student Satisfa	action Survey						
2.7.1 – Student Satisfa juestionnaire) (results	• •	,	•	ormance	e (Institution ma	y design the	
<u>https</u> :	//drive.goo		lle/d/1JuMFa1 v?usp=sharing		<u>IxETGo2eSUb</u>	<u>qtzMQYyU-</u>	
CRITERION III – RE	ESEARCH, IN	NOVATION	S AND EXTEN	SION			
.1 – Promotion of R	esearch and F	acilities					
3.1.1 – Teachers awa	rded National/Int	ernational fell	owship for advand	ced stud	lies/ research d	uring the year	
Туре	Name of the te awarded t fellowshi	he	er Name of the award Date		e of award	Awarding agency	
Nill	NA		Nill		Nill	Nill	
		No f	ile uploaded	•			
3.1.2 – Number of JRI nrolled during the yea		octoral Fello	ws, Research Ass	ociates	and other fellov	vs in the Institution	
Name of Researc		Duratic	n of the fellowship	D	Fund	ling Agency	
	h fellowship		Nill		Fund	ling Agency Nill	
Name of Researc	h fellowship		•		Fund		
Name of Research Na Na	h fellowship	No i search	Nill Tile uploaded	•		Nill	
Name of Research Na 3.2 – Resource Mobi	h fellowship	No i search	Nill Tile uploaded	•		Nill	
Name of Research Na 3.2 – Resource Mobi	h fellowship	No 1 search d received fro	Nill Tile uploaded	es, indus		Nill	
Name of Research Na 3.2 – Resource Mobi 3.2.1 – Research fund	h fellowship	No 1 search d received fro Nam	Nill Eile uploaded m various agencie e of the funding	es, indus	stry and other o	Nill rganisations Amount received	
Name of Research Na 3.2 – Resource Mobi 3.2.1 – Research fund Nature of the Project Major	h fellowship	No 1 search d received fro Nam	Nill Tile uploaded m various agencie e of the funding agency Central Pollution htrol Board CPCB-New	es, indus	stry and other o otal grant nctioned	rganisations Amount received during the year	
Name of Research Na 3.2 – Resource Mobi 3.2.1 – Research fund Nature of the Project Major Projects	h fellowship	No 1 search d received fro Nam	Nill Tile uploaded m various agencie e of the funding agency Central Pollution htrol Board (CPCB-New Delhi)	es, indus	stry and other o otal grant nctioned	rganisations Amount received during the year	
Name of Research Name of Research Na 3.2 - Resource Mobi 3.2.1 - Research fund Nature of the Project Major Projects 3.3 - Innovation Eco 3.3.1 - Workshops/Se	h fellowship	No 1 Search d received fro Nam	Nill The uploaded m various agencie the of the funding agency Central Pollution htrol Board (CPCB-New Delhi) View File	es, indus To sa	stry and other o otal grant nctioned 352000	rganisations Amount received during the year 0	
Name of Research Name of Research Na 3.2 - Resource Mobi 3.2.1 - Research fund Nature of the Project Major Projects 3.3 - Innovation Eco 3.3.1 - Workshops/Se	h fellowship	No 1 search d received fro Nam Cor d on Intellect	Nill The uploaded m various agencie the of the funding agency Central Pollution htrol Board (CPCB-New Delhi) View File	es, indus To sa	stry and other o otal grant nctioned 352000	rganisations Amount received during the year 0	
Name of Research Name of Research Na 3.2.1 – Research fund Nature of the Project Major Projects 3.3.1 – Workshops/Separatices during the ye	h fellowship	No 1 Search d received fro Nam Cor ed on Intellec	Nill Tile uploaded m various agencie le of the funding agency Central Pollution htrol Board (CPCB-New Delhi) View File tual Property Right	es, indus To sa	stry and other o otal grant nctioned 352000 and Industry-A	rganisations Amount received during the year 0 .cademia Innovative	
Name of Research Na 3.2 – Resource Mobi 3.2.1 – Research fund Nature of the Project Major Projects 3.3 – Innovation Eco 3.3.1 – Workshops/Se ractices during the ye Title of worksho Status of Siz in India and n	h fellowship	No 1 Search d received fro Nam Cor ed on Intellec	Nill Tile uploaded m various agencie le of the funding agency Central Pollution htrol Board (CPCB-New Delhi) View File tual Property Right me of the Dept.	es, indus To sa	stry and other o otal grant nctioned 352000 and Industry-A	rganisations Amount received during the year 0	

Title of the innovation	on Nam	ne of Awa	rdee	Awarding	g Agency	Date	of awar	d	Category
Young	Dr	Savit	ha J	_	logical	10,	/10/203	18 F	Research/Inno
Scientist				Socie India,	-				vation
					v File				
3.3.3 – No. of Incuba	tion cont	e creater	d etart-i				n the yea)r	
				·					
Incubation Center	Nan	ne	Spon	sered By	Name o Start-i		Nature c up		Date of Commencement
NA						-		-	Nill
No file uploaded.									
3.4 – Research Pub	olications	s and Av	vards						
3.4.1 – Ph. Ds award	led during	g the year	r						
Nam	ne of the I	Departme	ent			Numb	per of Ph	D's Awar	ded
	Phys	sics					:	11	
	Kan	nada					:	11	
	Mecha	nical						8	
Ele	ectroni	c Scie	nce					8	
	Mathe	matics						7	
	Stati	stics			4				
	Econ	omics						6	
3.4.2 – Research Pu	blications	in the Jo	ournals r	notified on l	JGC websit	e during	the year		
Туре		D	epartme	ent	Number	of Public	ation	Average	Impact Factor (if any)
Internatio	onal	Appl	ied Ge	enetics	22 0			0	
				View	v File				
3.4.3 – Books and C Proceedings per Tea				/ Books pu	ıblished, an	d papers	in Natior	nal/Interna	ational Conference
	Depart	ment				Nu	mber of I	Publicatio	n
A	pplied	Geneti	cs		3				
				View	v File				
3.4.4 – Patents publi	shed/awa	irded/app	lied dur	ing the yea	r				
Patent Detail	s	Pa	atent sta	itus	Patent Number		Da	te of Award	
Automatic G Floor Selectic Elevators	on in	F	Publis	hed		337594		1	7/08/2018
				No file	uploaded	1.			
3.4.5 – Bibliometrics Web of Science or Pu					ademic yea	r based o	n averag	e citation	index in Scopus/
	Name of Author	-	of journ	Ī		tation Ind	aff me	stitutional iliation as entioned ir publicatio	citations excluding self

On Estimating Stress- Strength R eliability when Stress is Censored at Strength.	meshw	Para var V. ndit	Journa of Applie Probabili y and Statistic	d. t	018	Nill	Bangal Univers		Nill
				No file	upload	ed.			
3.4.6 – h-Index o	f the Ins	stitutional	Publications	during the	year. (ba	sed on Scopus/	Web of sc	ience))
Title of the Paper		ne of thor	Title of journ	al Yea public		h-index	Number citatior excluding citatio	ns self	Institutional affiliation as mentioned in the publication
A Socio- Legal Chronicle concerning Right to I nformation in India: A Position Review	Jyo	Dr othi vanath	Interna ional Journal o Business Managemen and Socia Science (IJBMSS)	of , .t .l	018	Nill	Nil	.1	Nill
				No file	upload	ed.			
3.4.7 – Faculty pa	articipat	tion in Se	minars/Confe	erences and	I Sympos	ia during the ye	ar		
Number of Fac	culty	Interr	national	Nati	onal	State	e		Local
Presento	ed		56	150		5(D		5
Resourc	e		23		40	6			100
Attended/s nars/Worksh			58	170		5	5		106
				No file	upload	ed.			
3.5 – Consultan	су								
3.5.1 – Revenue	genera	ted from	Consultancy of	during the y	vear				
Name of the Co departm		n(s) N	Name of cons project	-	Consu	Ilting/Sponsoring Agency	-		e generated t in rupees)
Dept. of Enginee:		1	Civi Consulata		Nał	ksh project:	5		34100
				View	<u>/ File</u>				
3.5.2 – Revenue	genera	ted from	Corporate Tra	aining by th	e instituti	on during the ye	ear		
Name of the Consultan(s department	5)		of the ramme	Agency s trair	-	Revenue ge (amount in		Num	ber of trainees
Nil			Nil	N	il	0			0
				No file	upload	ed.			

3.6.1 – Number of exte Ion- Government Orga										
Title of the activitie				Organising unit/agency/ collaborating agency		Number of teachers participated in such activities		Number of students participated in such activities		
Belagavi Flo Relief	NSS		3	20			1701			
Reller				View	v File					
L 3.6.2 – Awards and rec luring the year	cognitio	on receive	ed for ex	tension act	ivities from	Governr	ment and	other	reco	gnized bodies
Name of the activi	ty	Awar	d/Reco	gnition	Award	ding Boc	lies	N		er of students Benefited
NA			Nil	1		Nill				Nill
				No file	uploaded	1.				
3.6.3 – Students partic Organisations and prog						•				
Name of the scheme	-	nising uni /collabora agency	-	Name of the	he activity	partici	er of teach pated in s activites			mber of students ticipated in such activites
SAKHI	C E	partment of STOP 3 Commerce, HARASSMENT angalore niversity			55					
				View	<u>v File</u>	1			I	
.7 – Collaborations										
3.7.1 – Number of Coll	aborat	ive activiti	es for r	esearch, fac	culty exchar	nge, stud	dent excha	ange	durin	ig the year
Nature of activity	,	F	Participa	ant	Source of	financial	support		[Duration
Research			. Venu G and Centre for 730 Avid Gower Applied Genetics, BUB and Natural History Museum, London, UK			730				
				<u>View</u>	<u>v File</u>					
3.7.2 – Linkages with in acilities etc. during the		ons/indus	tries for	internship,	on-the- job	training	, project w	ork, s	sharii	ng of research
Nature of linkage	Title c linka		par inst ind /rese with	ne of the tnering citution/ dustry earch lab contact etails	Duration	From	Duratio	on To		Participant
							N	111		Nill
NA	N	ill		Nill	Ni		141			NIII

Organisa	tion	Date of MoU sig	ned	Pu	rpose/Activities	studen	mber of its/teachers ed under MoUs
LINCO UNIVERSITY (LUC), KUALA MALAYS	COLLEGE	Nill		Conve and Cor Entre Oppor Chal	3rd Annual ntion of ICE International ofference on Global epreneurship Emerging rtunities and lenges, 28th 29th January 2019	- -	Nill
			<u>View</u>	<u>/ File</u>			
		TRUCTURE AND	LEAR	NING F	RESOURCES		
4.1 – Physical F		luding salary for infra	astructu		entation during th	e vear	
		structure augmentat		-	dget utilized for in	•	evelopment
		:5.4				2405	
4.1.2 – Details of	augmentatio	n in infrastructure fa	cilities d	luring the	e year		
	Facili	ties		Existing or Newly Added			
	Campus	s Area		Existing			
	Class	rooms			E	xisting	
	Labora	tories		Existing			
	Semina	r Halls		Existing			
		LCD facilitie		Existing			
		h Wi-Fi OR LAN		Existing			
purchased	d (Greate	tant equipment r than 1-0 lak urrent year			E	xisting	
		ipment purchas (rs. in lakhs)		Existing			
			<u>View</u>	<u>/ File</u>			
4.2 – Library as					(11.1.0))		
		ntegrated Library M	-	ent Syst	. ,.		
Name of the softwar		Nature of automatio or patially)	n (fully		Version	Year of	automation
ILM		Fully			2		2018
4.2.2 – Library Se							_
Library Service Type	E	Existing		Newly	Added	Тс	otal
Text Books	278343	3 309478091	1	050	1256553	279393	310734644
			<u>View</u>	<u>/ File</u>			

4.2.3 - E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & amp; institutional (Learning Management System (LMS) etc Name of the Teacher Name of the Module Platform on which module Date of launching eis developed content Nil Nil NIL Nill No file uploaded. 4.3 – IT Infrastructure 4.3.1 – Technology Upgradation (overall) Available Total Co Computer Internet Browsing Computer Office Departme Others Туре mputers centers Centers Bandwidt Lab nts h (MBPS/ GBPS) Existin 900 20 0 50 10 200 0 53 0 g Added 150 5 0 10 0 10 0 0 0 1050 Total 25 0 60 10 210 0 53 0 4.3.2 - Bandwidth available of internet connection in the Institution (Leased line) 100 MBPS/ GBPS 4.3.3 - Facility for e-content Provide the link of the videos and media centre and Name of the e-content development facility recording facility No Data Entered/Not Applicable !!! 4.4 – Maintenance of Campus Infrastructure 4.4.1 - Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year Assigned Budget on Expenditure incurred on Assigned budget on Expenditure incurredon academic facilities maintenance of academic physical facilities maintenance of physical facilities facilites 2000 1906 1239 1239 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) The responsibility for making the greatest use of all the space and physical infrastructure available rests with the university administration. At the departmental council level, planning for the availability of necessary infrastructure is taken into consideration. Ideas are then sent to university administration, which, after adhering to the correct administrative procedures, creates budgetary provisions. Every time a new Department is created, appropriate measures are taken early on to obtain money for the Departments development and provision of the necessary infrastructure. To evaluate the optimum utility and, if required, how to expand it, the Vice-Chancellor meets with the University chairpersons and executives. The Jnana Bharathi campus is heavily forested, therefore the neighbourhood residents who live nearby frequently use the campus for their morning walks.

	pport						
5.1.1 – Scholarshi	-	ancial Sup	port				
		Name/Ti	tle of the scheme	Number of stud	dents	Amo	unt in Rupees
Financial S from instit			SSP	SSP 33			44880
Financial S from Other S							
a) Natio	a) National			Nill			Nill
b)Internat	b)International		Nill	Nill			Nill
			View	<u>v File</u>			
				ent schemes such a n, Personal Counse			
Name of the ca	• •	Date o	fimplemetation	Number of stud enrolled	dents	Agei	ncies involved
	Skill Development 1 Program		3/05/2019	L9 65		Drishti- Central Placement Cell of Bangalore University in association with Youth Employability Service Project Management Unit(YESPMU) Centre	
		L	View	v File			
i.1.3 – Students k stitution during th	•	guidance	ofor competitive ex	aminations and car	eer couns	selling offe	ered by the
Year	Name sche		Number of benefited students for competitive examination	Number of benefited students by career counseling	Numt studen have pa the com	ts who assedin	Number of studentsp place
				activities			
2019	Stu Guid Acti		Nill		N	ill	10
2019	Guid	ance	Nill	activities	N	ill	10
	Guid Acti	ance vity m for tran	Nill <u>View</u> sparency, timely re	activities 20			
5.1.4 – Institutiona	Guid Acti	ance vity m for tran s during t	Nill <u>View</u> sparency, timely re	activities 20 <u>v File</u> edressal of student	grievance	s, Preven	tion of sexual
i.1.4 – Institutiona arassment and ra	Guid Acti	ance vity m for tran s during t	Nill View sparency, timely re ne year Number of grieva	activities 20 <u>v File</u> edressal of student	grievance	s, Preven mber of d redre	tion of sexual
i.1.4 – Institutiona arassment and ra	Guid Acti al mechanis gging case nces receiv 30	ance vity m for tran s during t	Nill View sparency, timely re ne year Number of grieva	activities 20 <u>v File</u> edressal of student ances redressed	grievance	s, Preven mber of d redre	tion of sexual ays for grievance
i.1.4 – Institutiona arassment and ra Total grieva	Guid Acti al mechanis gging case inces receiv 30	ance vity m for trans s during t ved	Nill View sparency, timely re ne year Number of grieva	activities 20 <u>v File</u> edressal of student ances redressed	grievance	s, Preven mber of d redre	tion of sexual ays for grievance
i.1.4 – Institutiona arassment and ra Total grieva .2 – Student Pro	Guid Acti al mechanis gging case inces receiv 30	ance vity m for trans s during t ved cement d	Nill View sparency, timely re ne year Number of grieva	activities 20 <u>v File</u> edressal of student ances redressed	grievance	s, Preven mber of d redre	tion of sexual ays for grievance

visited	students participated	stduents p	laced	organization: visited		tudents rticipated	stduents place
Accentur	e Nill	51		Nill		Nill	Nill
			View	<u>File</u>			
2.2 – Student	progression to high	er education in	percenta	ige during the	year		
Year	Number of students enrolling into higher educatio			Depratment graduated fro		lame of ution joined	Name of programme admitted to
2019	1	BA L	LB	Law	Uni	een Mary versity London	LLM
2019	1	BA L	ιLB	Law	1	Amity versity, Uttar radesh	LLM
		-	View	<u>File</u>			-
	qualifying in state/ ET/GATE/GMAT/C						
	Items			Numbe	er of stude	nts selected/	qualifying
	NET					13	
	SLET					9	
			<u>View</u>				
.2.4 – Sports a	nd cultural activities	s / competitions			ution level		
	Activity	-	Leve			Number of	
	ion of Nationa natics Day	11	Unive	rsity			45
Music 1	Demonstration		Unive	rsity			77
		I	View	<u>File</u>			
	articipation and	Activities					
3 – Student P						tivities at nat	ional/internationa
.3.1 – Number	of awards/medals f team event should			nce in sports/	cultural ac		
.3.1 – Number				er of Num s for awa	cultural ac nber of rds for Itural	Student ID number	Name of the student
.3.1 – Number vel (award for a	team event should Name of the	d be counted as National/	one) Numbe awards	er of Num s for awa ts Cu	nber of rds for	Student ID	student
.3.1 – Number vel (award for a Year	Name of the award/medal	d be counted as National/ Internaional	one) Numbe awards Sport	er of Num s for awa ts Cu	nber of rds for Itural	Student ID number	Amrutha S
.3.1 – Number vel (award for a Year 2018	team event shouldName of the award/medalSilver- FencingState level open Yoga champ	d be counted as National/ Internaional National	s one) Numbe awards Sport 1	er of Num s for awa ts Cu - I	nber of rds for Itural Nill	Student ID number Nill	Amrutha S GOWRAMM
.3.1 – Number vel (award for a Year 2018 2018 .3.2 – Activity c	team event shouldName of the award/medalSilver- FencingState level open Yoga champ	d be counted as National/ Internaional National National	Numbe awards Sport 1 View tation of	er of Num s for awa ts Cu . I . I	nber of rds for Itural Nill	Student ID number Nill Nill	Student Amrutha S GOWRAMM N

representation under three different categories. They are: 1. The Academic Council: Every year, applications are called for students' representatives for the Academic council, and five students' representatives are chosen to represent PG, Ph.D., and affiliated colleges. 2. Hostel Management Committee: Hostel Management Committee is responsible for actively monitoring and improving the quality of living for the Hostel students. They also organize various cultural, social, sports, and activity-oriented programs to increase bonding among the students from diverse backgrounds. 3. Committee on Sensitization, Prevention, and Redressal of Sexual Harassment and Gender discrimination (SPARSHGD): Here, students express their opinion regarding the redressal of grievances related to sexual harassment and gender-based discrimination.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The UVCE, a constituent college of the University has registered alumni association with more than 10000 members. The alumni of the University, particularly, UVCE, established a computer lab spending around 50 lakhs. The University Law College also has an alumni association, that supports the students community with professional knowledge by arranging moot courts etc. The alumni are helping the students presently studying with placement support. The all the departments get support from alumni though there is no registered alumni association.

5.4.2 – No. of registered Alumni:

11500

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

500000

5.4.4 - Meetings/activities organized by Alumni Association :

5

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)

2018-19: Bangalore University is the first to adopt the system of uploading marks cards and degree certificates to the National Academic Depository, enabling students to download their marks cards and degree certificates. It helps in the verification, authentication, and genuineness of the marks- cards and degree certificates anywhere in the world. Digitization of Evaluation of UG: The long-standing problem of non-issue of marks cards for not uploading internal assessment marks by the colleges has been solved by uploading the IA marks online mandatorily before downloading the hall ticket. Implementation of online Batch making, online Examiner's allotment, online marks are captured for UG/PG Practical Examinations. Online Room allotment, Invigilation dairy, packing details provided for theory examinations.

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

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the ins	stitution for each of the following (with in 100 words each):
Strategy Type	Details
Curriculum Development	Many significant strategies have been made to imporve the curricular aspects of the university which suit the global higher education scenario by taking into account the local requirements. New courses have been introduced by considering the local needs.
Teaching and Learning	To enhance the teaching-learning process, several training programmes have been organized on adopting ICT. The university encourages blended mode of learning through E-learning resources. Library has open access books and journals which can be accessed by students and teachers.
Examination and Evaluation	Bangalore University has taken a major step in evaluation section in the form of digital evaluation, where in the answer sheets were scanned with an in house scanner and stored in the server. This method solved a lot of problems like totaling mistakes were nil, contactless evaluation (boon during the pandemic), easy retrieval of answer scripts in problematic cases etc. This ensures 100 satisfaction to the stakeholders. With all this Bangalore University is ready to overcome the negative feedback or publicity which was going around in the social media such as 1) Delay in publishing of results- due to which many students were not able to go for higher studies and pursue their goals, had led to corruption and bad perception about the university. 2) Another herculean problem faced by many students was to get various certificates under BU this was under the mercy of case workers and liaison officers. In order to address this, the procedures are now correctly displayed in the BU website.
Research and Development	A very strong research policy of university has created a good environment for faculty, research students etc. The university also encourages inter and intra institutional research. The PMEB supports the faculty and research scholars to get funds from government and industrial sectors.
Library, ICT and Physical	The thesis and dissertations summited

Infrastructure / Instrumentation	by the university students are made available through searchable CD which is a set in digitization library. The library has introduced anti plagiarism software which helps to prevent plagiarism to a great extent.
Human Resource Management	University supports administrative staff to participate in outdoor activities as a measure to revitalize commitment to work. The promotion to teachers under UGC-CAS scheme was given to the eligible teachers which encourages to have commitment in their work.
Admission of Students	The admission to post graduate and undergraduate classes is done in a transparent way based on merit and roster to cater students belonging to socially deprived section.
Industry Interaction / Collaboration	Establishment of career guidance and placement cell helped to open new vistas for Industry- Institution interactions. Students were benefited by the exposures they got with industrial experts at the time of their interaction in placement cell. Many experts from industries were invited to BOS of different subjects to share their experience and to derive useful inputs while framing curriculum.

6.2.2 - Im	plementation of e-gov	vernance in areas	of operations:

E-governace area	Details
Finance and Accounts	Online Affiliation fee and Salary
Student Admission and Support	Online Admission and Fee Collection
Examination	Processing of Results

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr Geetha Bhasker	National Symposium on General Semantics in India : Possibilities and Prospects (To mark the tenth anniversary of	National Symposium on General Semantics in India : Possibilities and Prospects (To mark the tenth anniversary of	10000

			c	Balvant Centr Partici by invi only. Or by Bal Parekh for Ge Semanti Other Hu	re.) pation tation ganize lvant Centre neral cs and	i id (Balvant F Centre Participe by invite only. Orge by Balv Parekh Co for Gen Semantic Other Hum	2.) ation ation anized vant entre eral s and			
2019		Dr B P Annapurna (CONFERE IMPAC GLOH ATOMOSH CHANGH NATU RESOU	INTERNATIONAL CONFERENCE ON IMPACT OF GLOBAL ATOMOSPHERIC CHANGES ON NATURAL RESOURCES (IGACNR)		IGACNR		2500		
				<u>View</u>	File						
6.3.2 – Number of teaching and non				administrati	ve trainir	ng p	programmes o	organized	by the	• University for	
Year	profe devel prog organ	of the ssional opment ramme ised for ing staff	Title of the administrative training programme organised for non-teaching staff	r	date	To Date		Numbe participa (Teach staff)	ants ing	Number of participants (non-teaching staff)	
2018	enta	th Ori ation gramme	Nil	25/06,	/2018	21	/07/2018	51		Nill	
2018	enta	th Ori ation ramme	Nil	03/12,	/2018	2018 31/12/2018		63	3	Nill	
				<u>View</u>	<u>File</u>						
	6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year										
professiona developmer			of teachers attended	From Date			To date		Duration		
	RC Library and Information Science		45	06/08	06/08/2018		28/08/	2018		21	
RC Engli	RC English		54 24/		9/2018		16/10/2018		21		
<u>View File</u>											
6.3.4 – Faculty a	6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):										
Perman	e	Non-teaching				ll Time					
reman	,	Permanent				гu					

	287		287			504			504		
	6.3.5 – Welfare schemes for										
	Teaching	Non-teaching				Students					
	Medical support, Leave travel concession, Admission Quota			Medical support, Leave travel concession, Admission Quota			Hostel facility, Medical facility, sports facility, Freeship				
6	6.4 – Financial Management and Resource Mobilization										
(6.4.1 – Institution conducts	internal and	dexterna	al financial	audits regul	arly (wit	h in 100 v	vords	each)		
	A transparent financial system exists under the leadership of Finance Officer. The finance section of the University headed by the Finance Officer conducts regular audit internally and state audit department conducts the annual audit of the expenditure.										
	6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)										
	Name of the non gover funding agencies /indiv	Funds/ Grnats received in Rs.			Purpose						
	Nil				0				Nil		
				No file	uploaded	•					
_	6.4.3 – Total corpus fund ge	enerated									
				0	1						
6	5.5 – Internal Quality Ass	urance Sy	stem								
_	6.5.1 – Whether Academic a	and Admini	strative	Audit (AAA)) has been o	done?					
	Audit Type		External			Internal					
		Yes/No		Age	-	``	Yes/No		Authority		
	Academic	Yes		AAA Com by Banga Univera		galore			Nill		
	Administrative Yes		State Level Audit			Yes Internal Audit, Finance Section, BU		Audit, Finance			
	6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)										
	Colleges are encou faculty staff, buil UGC funding sup members to the gov guidance and su university als Vicechancellor ascertain their si	lding and port to rerning a uggestion so enable conducte ituations	d othe grow d cadem: ns to ed the d meet s and	er essent further. ic counce develop m to gro tings with to encou	ial requ Univers: ils of th towards we towar th the pu rage the	irementity no ne col autono ds ach rincip m for	nts so minated leges o omy. LI nieving les of moving	that d ser who o C vi aut the	they could get nior faculty constantly gave sits by the conomy. The colleges to		
F	6.5.3 - Activities and support from the Parent - Teacher Association (at least three) All 42 departments have conducted Annual PTA meeting										
						Annual	PTA Me	eetli	ng		
Ľ	6.5.4 – Development progra			•	,						
	Orientation pro	grammes	to get	t upgrad	ed for th	ne pre	sent-da	ay di	igital world		

l

	dertaking gre /seminars, in			h eminent						
5.6 – Internal Qua	ality Assurance Sy	stem Deta	ails							
a) Submission of Data for AISHE portal Yes										
b)Participation in NI	RF	Yes							
	c)ISO certification				No					
d)NBA	A or any other quali	ty audit			No					
5.7 – Number of (Quality Initiatives u	ndertaker	n during the	e year			-			
Year	Name of quality initiative by IQAC	_	te of ting IQAC	Duration From		Duration To	Number of participants			
2018	STC Research Methodology	10/0	03/2018	10/03/2	018	24/03/2018	35			
2018	2018 STC Gender Sensitizatio n		10/2018	25/10/2018		31/10/2018	37			
	- INSTITUTION			<u>File</u>		FS				
1 – Institutional 1.1 – Gender Equ	Values and Soci uity (Number of gen	•	onsibilities	6			ution during the			
1 – Institutional 1.1 – Gender Equ ar) Title of the	Values and Soci	nder equit	onsibilities	s n programme						
1 – Institutional 1.1 – Gender Equ ar)	Values and Soci	nder equit	onsibilities y promotio	s n programme	s orgai	nized by the institu				
1 – Institutional 1.1 – Gender Equ ar) Title of the	Values and Soci	om	y promotio Perio	s n programme	s orgai	nized by the institu Number of Part	icipants			
I – Institutional 1.1 – Gender Equ ar) Title of the programme DAUGHTER '	Values and Soci uity (Number of gen Period from s 02/07/ an 15/11/	om	pnsibilities y promotio Perio	s n programme d To	s orgai	nized by the institu Number of Part	icipants Male			
I - Institutional 1.1 - Gender Equar) Title of the programme DAUGHTER DAY Vision for Inclusive Society: A Feminist	Values and Soci uity (Number of gen Period from S 02/07/ an 15/11/ an 28/02/	om 2018 2018	pnsibilities y promotio Perio 02/0 15/1	s n programme d To 7/2018	s orgai	Number of Part	icipants Male 20			
1 - Institutional 1.1 - Gender Equar) Title of the programme DAUGHTER DAUGHTER DAY Vision for Inclusive Society: A Feminist Perspective Towards a Gender Inclusive University	Values and Soci uity (Number of gen Period fr s 02/07/ an 15/11/ an 28/02/ on 30/03/ al	2018 2018 2019	prosibilities y promotio Perio 02/0 15/1 28/0	s n programme: d To 7/2018 1/2018	s orgai	Number of Part	icipants Male 20 36			

7.1.3 – Differe	ently abled (Divy	yangjan) f	riendl	iness							
Item facilities				Yes/No				Number of beneficiaries			
Physical facilities				Yes				60			
Provision for lift				Yes				30			
Ramp/Rails				Yes				10			
Braille Software/facilities				Yes				54			
Scribes for examination				Yes				б			
7.1.4 – Inclus	ion and Situated	dness	-								
Year	Number of initiatives to addressNumber initiativ 		res to with te to I		Duration	Name of initiative		Issues addressed	Number of participating students and staff		
2018	Nill	12	2	Nill	10	tio com awa on	nterac n with ocal munity and reness clean ironme nt	Clean e nvironmne t, advana tges of planting more trees etc	321		
				No file	uploaded.						
7.1.5 – Huma	n Values and P	rofessiona	al Ethi	ics Code of co	onduct (handb	ooks)	for variou	us stakeholder	S		
	Title			Date of publication			Follow up(max 100 words)				
Handbook for staff				11/07/2016			Handbook for teachers and staff for ethics and code of conduct.				
7.1.6 – Activit	ies conducted f	or promot	ion of	universal Val	ues and Ethics	6					
Activity Du				uration From Duration T			o Number of partici		participants		
			.8/01/2018 18/01/20			018 89					
				View	<u>/ File</u>						
7.1.7 – Initiati	ves taken by the	e institutio	on to r	nake the cam	pus eco-friend	ly (at	least five)			
Biopark	Development	Cycle		h LED Inst Water Rech		Soli	d Waste	Managemen	it Ground		
7.2 – Best Pr	actices										
7.2.1 – Descr	ibe at least two	institution	al bes	st practices							
is gett: construct	sion of Wat ing achieve ed in the F d Contour T	d. Six Bio-parl	Chec k of	kdams, One Jnanabhar	e Gokatte, athi Campu	one 1s.	e vertio It help	cal shaft l os to trans	has been fer rainy		

water and groundwater enormously. The rise of the water table has been documented with the construction of piezometers. 2. Bangalore University has received a RUSHA grant and a DST (PURSE) grant of 7.3 crores. Three BSR Fellows: Prof. Mohammed Pasha, Prof. Gomathi Devi L, Prof. Somashekar K, in 2019 3. Digitization of Evaluation of UG: Digital Evaluation in collaboration with Visvesvaraya Technological University (VTU) is introduced. Results have been announced in a shorter duration. The long-standing problem of non-issue of marks cards for not uploading internal assessment marks by the colleges has been solved by mandatorily uploading the IA marks online before downloading the hall ticket. Implementation of online Batch making, online Examiner's allotment, online marks are captured for UG/PG Practical Examinations. Online Room allotment, Invigilation dairy, packing details provided for theory examinations. 4. Establishment of a hostel in the University campus for the girls' students from the North Eastern States

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

https://www.newindianexpress.com/states/karnataka/2019/mar/05/modi-toinaugurate-hostel-for-n-e-students-1946805.html

7.3 – Institutional Distinctiveness

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

Bangalore University's vision for a sustainable green campus is actualized through: • To conserver native species of flora fauna, the University is trying to develop Bio-Park on 300 acres. It contains more than three lakhs plants of nearly 600 species. • As part of Bio-Park, Smrithi Vana, Maha panchavati vanas, Kadamba Vana, Ashoka Vana, Bokula Vana, Vatavriksha Vana, Aswatha Vana, Devakanigalu Vana, Bilva Vana, Suganda Vana, Charaka Vana, Sushrutha Vana, Madhu Vana, Honge Vana, Bevu Vana have been developed. • In Charaka Vana where medicinal plants are grown, students of Ayurvedic Colleges are using it to identify the Herbal Plants. It consists of ganas as conceived in Charaka Samitha. • A variety of Birds and Butterflies have seen the construction of the Bio-diversity about 60 different types more than 150 varieties of butterflies have been identified in the Bio-park. Bio-park is a significant habitat for bird nesting and roosting. • Fruit Garden has been developed in 25 Acres at the Jnana Bharathi campus. • Bangalore University has installed a Rooftop Solar Power Panel with a capacity of 495KW on the buildings in the Jnanabharathi Campus with the help of Maharashtra RESCO Rooftop Solar Pvt. Limited, recognized by the Ministry of Power, Govt. of India. It has enabled saving Rs.2.00 lakhs per month towards electricity bills. • The vision of Water Conservation Management of Biodiversity on the JB campus is achieved. Six Checkdams, One Gokatte, one vertical shaft has been constructed in the Bio-park of Jnanabharathi Campus. It helps to transfer rainy water and Contour Trenches for lakhs of plants, which has increased subsurface water and groundwater enormously. The rise of the water table has been documented with the construction of piezometers. • It is proposed to construct, A 60 MLD Waste Water Treatment Plant along the Vrishabhavthi river valley by the Bangalore Water and Supply and Sewage Board (BWSSB) at Bangalore University Jnana Bharathi Campus to provide water from wastewater treatment to all the trees, herbs, shrubs, and grass of the Campus as water is scarce to the plants.

Provide the weblink of the institution

https://www.bubpark.com/

8. Future Plans of Actions for Next Academic Year

1. Automating admissions as complete as possible. 2. Increasing the number of content in MOOC. 3. Strengthening teaching and learning by using advanced ICT tools and techniques.