

# THE UNIVERSITY APPROVED BENCHMARKING FOR RESEARCH-QUALITY POLICY AND STANDARDS

The IQAC discussed various issues with a view to improve the quality of research output in the university and also suggested criteria of research benchmarking. Based on deliberations, the policy is outlined below:

## 1. BENEFITS OF RESEARCH BENCHMARKING

- a) To facilitate improvement in research quality
- b) To support government aspirations to become knowledge-based economy
- c) To underpin national allocations of performance-based funding
- d) To publicize program strengths to attract top students, faculty, and funding.
- e) To identify potential research collaborators to compliment research strengths.
- f) To make more rational, strategic and resource allocation decisions.

## 2. RESEARCH BENCHMARKING CRITERIA

- a) Number of highly cited researchers in the university
- b) Academic performance per faculty
- c) Journal articles published in Nature or Science
- d) Total articles in SCI journals
- e) Number of books published
- f) Number of citations
- g) H-index of university and individual faculty member
- h) International collaborations
- i) Number of research projects ongoing and completed in the university
- j) Number of patents granted and filed
- k) Number and nature of awards received by the faculty members
- l) Fellows of academies/societies /associations
- m) Industrial Consultancy projects

## 3. PROFORMA TO ASSESS RESEARCH QUALITY OUTPUT OF FACULTY MEMBERS

Further, a review meeting of the committee comprising Director IQAC and Dr. V K Garg revised the API so as to make it in-compliance with the already approved API-System:

S.No.	APIs	Schools/Faculties of Engineering & Technology/ Environmental and Bio-Sciences & Technology/ Physical Sciences / Medical Sciences	Schools/Faculties of Humanities and Social Sciences/ Media Studies/ Haryana School of Business /Religious Studies	Max. Points for university and College teacher position.		
				API Score allotted		
III A	Research /Review Papers*	Refereed journals with impact factor above 5	Refereed journals with impact factor above 5	40/publication		
	published in:	Refereed journals with impact factor above 2 and below 5	Refereed Journals with impact factor above and 2 below 5	35/publication		
		Refereed Journals with impact factor above 1 and below 2	Referred Journals with impact factor above 1 and below 2	30/publication		
		Refereed journals with impact factor less than 1	Refereed journals with impact factor less than 1	25/publication		
		Refereed and indexed journals/ Refereed Journals	Refereed and indexed journals/ Refereed Journals	20/publication/ 15/publication		
		Non-refereed but recognized and reputable journals and	Non-refereed but recognized and reputable journals and	10/publication		

		periodicals, having ISBN/ISSN numbers	periodicals, having ISBN/ISSN numbers			
		Conference proceedings as full papers, etc. (Abstracts not to be included)	Conference proceedings as full papers, etc. (Abstracts not to be included)	10/publication		
IIIB	Research Publications* (Books, chapters in books, other than refereed journal articles)	Text or Reference Books Published by International Publishers	Text or Reference Books Published by International Publishers	50/sole author (Book) and 10 each chapter in an edited book		
		Subjects Books by National Level Publishers/ State and Central Govt. Publications with ISBN/ISSN numbers	Subjects Books by National Level Publishers/State and Central Govt. Publications with ISBN/ISSN numbers.	25/sole author (book) and 5 each chapter in an edited book.		
		Subject Books by Other local publishers with ISBN/ISSN numbers	Subject Books by Other local publishers with ISBN/ISSN numbers	15/sole author (book) and 3 each chapter in an edited book.		
		Chapters contributed to edited Knowledge based volumes published by International Publishers	Chapters contributed to edited Knowledge based volumes published by International Publishers	10/chapter		
		Monographs/books published without ISBN/ISSN numbers/ edited conference proceedings/ refresher course proceedings / case studies, etc.	Monographs/books published without ISBN/ISSN numbers/edited conference proceedings/ refresher course proceedings/business games/case studies, etc.	10 points each		
		Chapters in Knowledge based volumes by Indian/ National Level publishers with ISBN/ ISSN numbers and with numbers of national and international directories.	Chapters in Knowledge based volumes by Indian/National Level publishers with ISBN/ ISSN numbers and with numbers of national and international directories.	5/chapter		
IIIC	<b>RESEARCH PROJECTS</b>					
IIIC (i)	Sponsored Projects carried out/ongoing	(a) Major Projects amount mobilized with grants Rs. 50.0 lakhs and above /Major Projects amount mobilized with grants above Rs. 30.0 lakhs	(a) Major Projects amount mobilized with grants Rs. 10.0 lakhs and above /Major Projects amount mobilized with grants above Rs. 5.0 lakhs	30/20 per project per year of operation.		
		(b) Major Projects amount mobilized with grants above Rs. 5.0 lakhs up to Rs. 30.00 lakhs	(b) Major Projects amount mobilized with grants above Rs. 3.0 lakhs up to Rs. 5.00 lakhs	15/Project per year of operation.		
		(c) Major/Minor Projects (Amount mobilized with grants Rs. 50,000 up to Rs.5 lakh)	(c) Major/Minor Projects (Amount mobilized with grants Rs. 25,000 up to Rs. 3 lakh)	10/ Project per year of operation.		
IIIC (ii)	Consultancy Projects carried out/ongoing	Amount mobilized above Rs. 10.00 lakh	Amount mobilized above Rs. 2.00 lakh	10 per project per year		
		Amount mobilized between Rs. 10,000/- and Rs. 10.00 lakh	Amount mobilized between Rs. 10000/- and Rs. 2.00lakh	5 per project per year		
IIIC (iii)	Completed projects	Completed project Report	Completed project Report	20/each major project and 10/each minor project.		
IIIC	Projects	Patent/Technology	Major Policy document of Govt.	30/each		

(iv)	Outcome/Outputs	transfer/Product/ Process	Bodies at Central and State Government/Semi Govt Level.	national level output including patent granted; 50/each for international level including patent granted; and 15/each for patent applied		
IIID	<b>Research Guidance</b>					
IIID (i)	M.Phil./ M.Tech./M.Sc./ MPharma/MPT/ MBA/M Com/Master Degree (with dissertation or PrWork)	Degree awarded  Dissertation submitted	Degree awarded  Dissertation submitted	3/each candidate.  2/each candidate.		
	B.Tech./ BBA Project work	Degree awarded	Degree awarded	1/each candidate.		
IIID (ii)	Ph.D	Degree awarded	Degree awarded	10/each candidate		
		i) Thesis submitted ii) Thesis evaluated of other Universities. iii) Viva-voce conducted of other Universities.	i) Thesis submitted ii) Thesis evaluated of other Universities. iii) Viva-voce conducted of other Universities.	7/each 5/each candidate 3/each candidate		
IIIE	<b>TRAINING COURSES AND CONFERENCE/SEMINAR/SYMPOSIUM/WORKSHOP PAPERS</b>					
IIIE (i)	Refresher** courses, Orientation Programmes, Methodology workshops, Training, Teaching-Learning-Evaluation Technology Programme, Soft Skills development Programme, Faculty Development Programmes (Max:30 points)	(a) Not less than two weeks duration.	(a) Not less than two weeks duration.	20/each		
		(b) One week duration.	(b) One week duration	10/each		
IIIE (ii)	Papers in Conferences /Seminars/ Symposia/ workshops etc.***	Participation and Presentation of research papers (oral/ poster) in	Participation and Presentation of research papers (oral/poster) in			
a) International		a) International	10/each			
b) National		b) National	7.5/each			
c) Regional/ State level		c) Regional/State level	5/each			
		d) Local-University/ College level.	d) Local-University/College level.	3/each		

IIIE (iii)	Invited lectures/ presentations or sessions chaired at conferences/ seminar/ workshops/ symposia.	a) International/ Foreign	a) International/Foreign	10/each		
		b) National	b) National	7.5/each		
		c) Regional/ State Level	c) Regional/State level	5/each		
		d) Local-University/ College level	d) Local-University/College level	3/each		
IIIE (iv)	Academic Contribution through organization of Refresher Courses/ Orientation Programmes/ Conferences/ Seminars/ Workshops, etc	As a member of the organizing committee or the Advisory Committee	As a member of the organizing committee or the Advisory Committee			
		a) International	a) International	10/each		
		b) National	b) National	7.5/each		
		C) Regional/ State level	C) Regional/State level	5/each		
IIIE (v)	Academic Contribution through participation in quality enhancement/ sustenance efforts.	Member of University Court/ Executive Council/ Academic Council/FC/Sports Council/ IQAC/ IAEC/Human Ethics Committee/ Purchase Committee, House allotment committee, NAAC committee, health advisory committee, UG/PG Boards of Studies, Governing Bodies of Colleges/ Institutions, Inspection Committee, etc.	Member of University Court/ Executive Council/Academic Council/FC/Sports Council/IQAC/IAEC/Human Ethics Committee/ Purchase Committee, House allotment committee, NAAC committee, health advisory committee, UG/PG Boards of Studies, Governing Bodies of Colleges/ Institutions, Inspection Committee, etc.	minimum 7 points each or 7 points each/year.		
IIIF	Academic Contribution through leadership At different level	Teachers/Other Academic Staff Discharging duties as:	Teachers/Other Academic Staff Discharging duties as:			
IIIF (i)		A) Chairperson, Director of Sports, Director Distance Education, Head (T&P), Joint Chief Warden, Co-coordinator, TEQIP etc.	C) Chairperson, Director of Sports, Director Distance Education, Head, T&P, Joint Chief Warden, Co-coordinator, TEQIP etc.	25 points for each, subject to maximum of 25 points per year		
		B) Incharges, Warden, Programme Chairperson, Head, IPR Cell, NSS Coordinator, Nodal Officer, Coordinator, CIL, Head, BDG, Incharge International Education Cell, Coordinator, REC, Incharge, CWN, Dy-Coordinator (TEQIP, SAP/FIST), Training & Placement Advisor, Course Coordinator/ Lab Incharge, etc	D) Incharges, Warden, Programme Chairperson, Head, IPR Cell, NSS Coordinator, Nodal Officer, Coordinator, CIL, Head, BDG, Incharge International Education Cell, Coordinator, REC, Incharge, CWN, Dy Coordinator (TEQIP, SAP/FIST), Training & Placement Advisor, Course Coordinator/ Lab Incharge. etc.	20 points for each, subject to maximum of 20 points per year		
IIIF (ii)	Academic Contribution through leadership At senior level	IIIF (ii) For stage 6 only	IIIF (ii) For stage 6 only			
		A) VC, PVC, and Registrar	A) VC, PVC, and Registrar	40 points for each, subject to maximum of 40 points per year		
		B) Dean Academic Affairs, Dean of Colleges, Dean Students Welfare, Deans of Faculties, Proctor, Director of	B) Dean Academic Affairs, Dean of Colleges, Dean Students Welfare, Deans of Faculties, Proctor, Director of School, COE, Director	30 points for each, subject to maximum of 30 points per year		

		School, COE, Director ASC, Chief Warden, Director-Research, Librarian, Coordinator (TEQIP, SAP/FIST) etc.	ASC, Chief Warden, Director-Research, Librarian, Coordinator (TEQIP, SAP/FIST) etc			
IIIG	(i) Fellow of Academies	a) International b) National	a) International b) National	20 each 10 each		
	(ii) Research/Acad Fellowship	a) International b) National	a) International b) National	10 each 5 each		
	(iii) Citation of Research Work	Above 50 citation per paper	Above 25 citation per paper	1 each/citation		
IIIH	Chief-Editor and Member of International Refereed Journals	Editorial Board of Refereed Journals	Editorial Board of Refereed Journals	25 Chief Editor 10 Editorial Board Member		
	Chief-Editor and Member of National Refereed Journals	Editorial Board of Refereed Journals	Editorial Board of Refereed Journals	15 Chief Editor 05 Editorial Board Member		
	Best paper/poster award in International Conference/Seminar	Research paper presentation in International Conference/Seminar	Research paper presentation in International Conference/Seminar	15 each		
	Best paper/poster award in National Conference/Seminar	Research paper presentation in National Conference/Seminar	Research paper presentation in National Conference/Seminar	07 each		
	H-Index reported by some verifiable data-bases	Research H-Index of individual teacher by authentic research data bases	Research H-Index of individual teacher by authentic research data bases	10 points per H-Index		

**4. SUGGESTIONS TO IMPROVE THE QUALITY OF RESEARCH:** Scientific research is the soul of higher education and progress in modern society. It is the magic wand of new knowledge that would provide us means and methods of resolving problems and dilemmas. Currently the world is facing crisis on climate change, food and water shortage, and violence of all kinds. Poverty, unemployment and inequality are increasing concomitantly with rising material standards. Individuals, nations and communities have their own problems and priorities. It is the task of scientists/academicians to find solution to these problems and hence following suggestions are made to improve the research quality in the university to meet the growing human aspirations.

- a) Faculty wise research policy needs to be formulated by the university focusing the thrust areas of research in a time frame of three year plans. This task should be assigned to Dean's of each faculty. Chairperson should be asked to present a vision document for the department of his/her tenure of three years. Industry representatives may be consulted while formulating the research policy.
- b) Establishment of research incubation and industry service centre for consultative research and to solve the specific problems of the industry through dedicated research teams.
- c) Collaborative industry oriented research projects within university and outside university should be encouraged.
- d) Establishment of centre of excellence in thrust areas of the university shall be an excellent idea to promote research and outstanding researchers.
- e) Identification and encouragement to proactive researchers through awards, appreciation certificates, cash and increment based incentives needs to be introduced in the university.

- f) There is an urgent need to revise the university calendar by introducing earned leave system in place of the existing system of summer and winter break. The present academic calendar spares no time for conducting research and does not offer any reward to researchers in terms of accumulating leaves for conducting research in summer and winter breaks.
- g) Meritorious doctoral students should be helped through teaching assistantships with stipends over and above the research fellowships. These students should assist faculty members in laboratory work, and/or in tutorials.
- h) Regular doctoral scholars should be essentially provided single room in hostels and they should also be allotted proper space in their departments and library for effective and timely implementation of their projects.
- i) There should be a mechanism for exchange programme for the researchers among premier research institutes of the country for learning new techniques for the advancement of research.
- j) University should create a reliable data bank of the most promising, dedicated and talented teachers based on their academic and research output and administrative duties of primarily academic and research nature should be assigned only to these teachers on merit.

***Note: The IQAC resolved that the research proposals and research outcomes should be deliberated at the level of departmental research committees and faculty board so that such ideas may be further fine-tuned with the suggestions of colleagues and scholars engaged in the field. Moreover, the efforts should be made to establish the directorate of research in the university so that research is further consolidated in the times to come.***