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QUALIFICATIONS AND EXPERIENCE FOR THE POST OF PROFESSORS IN ENGINEERING/TECHNOLOGY/SCIENCES AS PER AICTE GAZETTE NOTIFICATION DATED 1<sup>ST</sup> MARCH, 2019

**PROFESSOR (APPLIED SCIENCE)**

As per UGC Notification No.F.1-2/2017 (EC/PS) dated 18<sup>th</sup> July, 2018, the qualifications and experience for the post of Professor, Applied Science (see page No.60 of UGC guidelines) is as under:

**Eligibility:**

- i) An eminent scholar having a Ph.D. degree in the concerned/allied/relevant discipline (Physics, Mathematics/Chemistry), and published work of high quality, ~~and~~ actively engaged in research with evidence of published work with, a minimum of 10 research publications in peer-reviewed or UGC-listed journals and a total research score of 120 as per the criteria given in Appendix II, Table 2 of the notification.
- ii) A minimum of ten years of teaching experience in university/college as Assistant Professor/Associate Professor/Professor, and / or research experience at equivalent level at the University/National Level Institutions with evidence of having successfully guided doctoral candidate.

OR

- B. An outstanding professional, having a Ph.D. degree in the relevant (Physics, Mathematics/Chemistry)/allied/applied disciplines, from any academic institutions (not included in A above) / industry, who has made significant contribution to the knowledge in the concerned/allied/relevant discipline, supported by documentary evidence provided he/she has ten years' experience.

**Table 2****Methodology for University and College Teachers for calculating Academic/Research Score**

(Assessment must be based on evidence produced by the teacher such as: copy of publications, project sanction letter, utilization and completion certificates issued by the University and acknowledgements for patent filing and approval letters, students' Ph.D. award letter, etc..)

S.N.	Academic/Research Activity	Faculty of Sciences /Engineering / Agriculture / Medical /Veterinary Sciences	Faculty of Languages / Humanities / Arts / Social Sciences / Library /Education / Physical Education / Commerce / Management & other related disciplines
1.	Research Papers in Peer-Reviewed or UGC listed Journals	08 per paper	10 per paper
2.	Publications (other than Research papers)		
	(a) Books authored which are published by ;		
	International publishers	12	12
	National Publishers	10	10
	Chapter in Edited Book	05	05
	Editor of Book by International Publisher	10	10
	Editor of Book by National Publisher	08	08
	(b) Translation works in Indian and Foreign Languages by qualified faculties		
	Chapter or Research paper	03	03
	Book	08	08
3.	Creation of ICT mediated Teaching Learning pedagogy and content and development of new and innovative courses and curricula		
	(a) Development of Innovative pedagogy	05	05
	(b) Design of new curricula and courses	02 per curricula/course	02 per curricula/course
	(c) MOOCs		
	Development of complete MOOCs in 4 quadrants (4 credit course)(In case of MOOCs of lesser credits 05 marks/credit)	20	20
	MOOCs (developed in 4 quadrant) per module/lecture	05	05
	Content writer/subject matter expert for each module of MOOCs (at least one quadrant)	02	02
	Course Coordinator for MOOCs (4 credit course)(In case of MOOCs of lesser credits 02 marks/credit)	08	08
	(d) E-Content		
	Development of e-Content in 4 quadrants for a complete course/e-book	12	12
	e-Content (developed in 4 quadrants) per module	05	05
	Contribution to development of e-content module in complete course/paper/e-book (at least one quadrant)	02	02
	Editor of e-content for complete course/ paper /e-book	10	10
4	(a) Research guidance		



	Ph.D.	10 per degree awarded 05 per thesis submitted	10 per degree awarded 05 per thesis submitted
	M.Phil./P.G dissertation	02 per degree awarded	02 per degree awarded
	<b>(b) Research Projects Completed</b>		
	More than 10 lakhs	10	10
	Less than 10 lakhs	05	05
	<b>(c) Research Projects Ongoing :</b>		
	More than 10 lakhs	05	05
	Less than 10 lakhs	02	02
	<b>(d) Consultancy</b>	03	03
5	<b>(a) Patents</b>		
	International	10	10
	National	07	07
	<b>(b) *Policy Document (Submitted to an International body/organisation like UNO/UNESCO/World Bank/International Monetary Fund etc. or Central Government or State Government)</b>		
	International	10	10
	National	07	07
	State	04	04
	<b>(c) Awards/Fellowship</b>		
	International	07	07
	National	05	05
6.	<b>*Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference Proceedings (Paper presented in Seminars/Conferences and also published as full paper in Conference Proceedings will be counted only once)</b>		
	International (Abroad)	07	07
	International (within country)	05	05
	National	03	03
	State/University	02	02

**The Research score for research papers would be augmented as follows :**

Peer-Reviewed or UGC-listed Journals (Impact factor to be determined as per Thomson Reuters list) :

- |      |  |   |           |
|------|--|---|-----------|
| i)   | Paper in refereed journals without impact factor | - | 5 Points  |
| ii)  | Paper with impact factor less than 1             | - | 10 Points |
| iii) | Paper with impact factor between 1 and 2         | - | 15 Points |
| iv)  | Paper with impact factor between 2 and 5         | - | 20 Points |
| v)   | Paper with impact factor between 5 and 10        | - | 25 Points |
| vi)  | Paper with impact factor >10                     | - | 30 Points |

(a) Two authors: 70% of total value of publication for each author.

(b) More than two authors: 70% of total value of publication for the First/Principal/Corresponding author and 30% of total value of publication for each of the joint authors.

Joint Projects: Principal Investigator and Co-investigator would get 50% each.

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Note:

- Paper presented if part of edited book or proceeding then it can be claimed only once.
- For joint supervision of research students, the formula shall be 70% of the total score for Supervisor and Co-supervisor. Supervisor and Co-supervisor, both shall get 7 marks each.
- \*For the purpose of calculating research score of the teacher, the combined research score from the categories of 5(b). Policy Document and 6. Invited lectures/Resource Person/Paper presentation shall have an upper capping of thirty percent of the total research score of the teacher concerned.
- The research score shall be from the minimum of three categories out of six categories.

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## QUALIFICATIONS, EXPERIENCE, JOB DESCRIPTION ETC. FOR THE POST OF PROFESSOR MEDIA CENTRE

### A. QUALIFICATION AND EXPERIENCE

#### A. (1) ESSENTIAL

##### ACADEMIC QUALIFICATIONS

Ph. D in Engineering/Technology/Management with BE/B.Tech and ME/M. Tech in any branch of Engineering/Engineering Education with First class or equivalent either at Bachelor's or Master's level.

AND

(a) Minimum of 10 years of experience in teaching/research/industry out of which at least 3 years shall be at a post equivalent to that of an Associate Professor

AND

(b) At least 6 research publications at the level of Associate Professor in SCI Journals/UGC/AICTE approved list of Journals and at least 2 successful Ph.D guided as Supervisor/Co-supervisor till the date of eligibility of promotion

OR

(c) At least 10 research publications at the level of Associate Professor in SCI journals /UGC/ AICTE approved list of Journals till the date of eligibility of promotion.

**Note:** Regulations on qualifications and other requirements for the appointment of teachers shall be, as per the Gazette Notification of AICTE, March 1<sup>st</sup>, 2019.

#### A. (2) DESIRABLE

- Teaching, research industrial and/or professional experience in a reputed organization.
- Published work, such as research papers, patents filed/obtained, books, and / or technical reports.
- Experience of guiding the project work/dissertation of PG/Research(Ph. D) Students or supervising R & D projects in industry.
- Demonstrated leadership in planning and organizing academic, research industrial and/or professional activities.
- Capacity to undertake/ lead sponsored R & D consultancy and related activities.
- Integration of Information Technology in the specific area of specialization
- National/International Projects handling
- Practical/Industrial experience
- Teaching at Technical Institute
- Conducting training/seminars/workshops for faculty and staff
- Preparing project proposal
- Participation in curriculum design /development/revision



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- Curriculum Design and Development
- Instructional Development
- Ph. D. Guidance

A. (3) SPECIALIZED KNOWLEDGE IN ONE OR MORE OF THE FOLLOWING FIELDS

- Different processes for production of audio-visual instructional material
- Different AV equipment and their operation
- Computer graphics & DTP.
- Any other specialization as decided by the Department from time to time based on requirement and approved by the Director.

A. (4) JOB DESCRIPTION

- Organising, conducting and evaluating education and training programmes
- Assessing and evaluating trainee's performance
- Assisting in consultancy and R&D services
- Developing resource material
- Developing laboratory
- Participating in Co-curricular and extra curricular activities
- Assisting in departmental and institutional administration
- Imparting practical instructions/exposure to industrial practices
- Research & Development in emerging areas/Technology
- Guiding research work
- Preparing project & obtaining sponsored projects
- Any other job as required by the institute for the institutional development

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## QUALIFICATIONS, EXPERIENCE, JOB DESCRIPTION ETC. FOR THE POST OF PROFESSOR RURAL DEVELOPMENT

### A. QUALIFICATION AND EXPERIENCE

#### A. (1) ESSENTIAL ACADEMIC QUALIFICATIONS

Ph. D in Engineering/Technology/Management with BE/B.Tech and ME/M. Tech in any branch of Engineering/Engineering Education with First class or equivalent either at Bachelor's or Master's level

or

Ph.D in Management/Arts/Rural Development with 1<sup>st</sup> class Master degree in Management/Rural Development/Rural Management/ Environment Science/ MSc. Agriculture/MA in Rural Development/Sustainable Development.

AND

(a) Minimum of 10 years of experience in teaching/research/industry out of which at least 3 years shall be at a post equivalent to that of an Associate Professor

AND

(b) At least 6 research publications at the level of Associate Professor in SCI Journals/UGC/AICTE approved list of Journals and at least 2 successful Ph.D guided as Supervisor/Co-supervisor till the date of eligibility of promotion

OR

(c) At least 10 research publications at the level of Associate Professor in SCI journals /UGC/ AICTE approved list of Journals till the date of eligibility of promotion.

**Note:** Regulations on qualifications and other requirements for the appointment of teachers shall be, as per the Gazette Notification of AICTE, March 1<sup>st</sup>, 2019.

#### A. (2) DESIRABLE

- Teaching, research industrial and/or professional experience in a reputed organization.
- Published work, such as research papers, patents filed/obtained, books, and / or technical reports.
- Experience of guiding the project work/dissertation of PG/Research(Ph.D) Students or supervising R & D projects in industry.
- Integration of Information Technology in the specific area of specialization
- National/International Projects handling
- Practical/Industrial experience
- Teaching at Technical Institute/Rural Development Institute
- Conducting training/seminars/workshops for faculty and staff
- Preparing project proposals

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- Participation in curriculum design /development/revision
- Curriculum Design and Development
- Instructional material Development

A. (3) SPECIALIZED KNOWLEDGE IN ONE OR MORE OF THE FOLLWING FIELDS

- Integrated Rural Development
- Appropriate Technology
- Rural Management
- Curriculum design and instructional material development
- Planning and conducting need based education and short term courses for technical teachers/rural development functionaries
- Any other specialization as decided by the Department from time to time based on requirement and approved by the Director

A. (4) JOB DESCRIPTION

- Organising, conducting and evaluating education and training programmes
- Assessing and evaluating trainee's performance
- Assisting in consultancy and R&D services
- Developing resource material
- Developing laboratory
- Participating in Co-curricular and extra curricular activities
- Assisting in departmental and institutional administration
- Imparting practical instructions/exposure to industrial practices
- Research & Development in emerging areas/Technology
- Guiding research work
- Preparing project & obtaining sponsored projects
- Any other job as required by the institute for the institutional development