HARCOURT BUTLER TECHNICAL UNIVERSITY

Recruitment Rules (Direct Recruitment) for Faculty Positions (Assistant Professor, Associate Professor and Professor) in Mathematics

Name of the Post	Essential Qualification and Experience	Relevant Discipline	Note and Relaxations
Assistant Professor, Level-10, Entry Pay:57,700/-	(i) M.A. / M.Sc. in relevant branch with a minimum of 55% marks (or an equivalent grade in point scale when grading system is followed). (A relaxation of 5% for reserved categories and Ph.D. Degree holders who obtained their Master's Degree prior to 19 September, 1991 is permissible as per UGC Regulation July 18, 2018.) (ii) NET/ SLET/SET cleared (The Ph.D. Degree shall be a mandatory qualification for direct recruitment to the post of Assistant Professor in Universities with effect from 01.07.2023) OR Ph.D. Degree in Accordance with the UGC (Minimum Standards and Procedure for Award of M.Phil/ Ph.D. Degree) Regulations, 2009 or 2016. OR Ph.D. Degree with registration for the Ph.D. programme prior to July 11, 2009 subject to the fulfilment of the following conditions: - (a) Ph.D. degree of the candidate awarded in regular mode only; (b) Evaluation of the Ph.D. thesis by at least two external examiners; (c) An open Ph.D. Viva Voce of the candidate had been conducted; (d) Candidate has published two research papers from his/ her Ph.D. work out of which at least one must be in a refereed journal; (e) Candidate has made at least two presentations in conference / seminars, based on his/ her Ph.D. work.	Mathematics Applied Mathematics Discrete Mathematics Industrial Mathematics Industrial Mathematics with Computer Applications Mathematics and Computing Financial Mathematics Stochastic Processes Operational Research Mathematical Modelling and Scientific Computing Advanced Scientific Computing Modeling and Simulation Statistics Applied Statistics Mathematical Statistics Financial Statistics Data Science Machine Learning Artificial Intelligence Artificial Intelligence and Machine Learning Deep Learning Big Data Analytics Computational Statistics and Machine Learning Simulation and Data Science Cloud Computing Actuarial Science Mathematics and Computer Science Applied Statistics and Data Analytics	*Note*: (i) A relevant grade which is regarded as equivalent of 55%, wherever the grading system is followed by a recognized University, at the Master 's level shall also be considered valid. (ii) The time taken by candidates to acquire M.Phil. and / or Ph.D. Degree shall not be considered as teaching/ research experience to be claimed for appointment to the teaching positions. Further the period of active service spent on pursuing Research Degree simultaneously with teaching assignment without taking any kind of leave, shall be counted as teaching experience for the purpose of direct recruitment. **Relaxation** i) A relaxation of 5% shall be allowed at the Bachelor's as well as at the Master's level for the candidates belonging to Scheduled Caste / Scheduled Tribe/ Other Backward Classes (OBC) (Non-creamy Layer) / Differently-abled (a) Blindness and low vision; (b) Deaf and Hard of Hearing; (c) Locomotor disability including cerebral palsy, leprosy cured, dwarfism, acid-attack victims and muscular dystrophy; (d) Autism, intellectual disability, specific learning disability and mental illness; (e) Multiple disabilities from amongst persons under (a) to (d) including deaf-blindness) for the purpose of eligibility and assessing good academic record for direct recruitment. The eligibility marks of 55% marks (or an equivalent grade in a point scale wherever the grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible, based only on the qualifying

			marks without including any grace mark procedure. (ii) A relaxation of 5% shall be provided, (from 55% to 50% of the marks) to the Ph.D. Degree holders who have obtained their Master's Degree prior to 19 September, 1991.
Associate Professor, Level-13A1, Entry Pay- 131400/-	(i) M.A. / M.Sc in relevant branch with at least 55% marks (or an equivalent grade in point scale when grading system is followed) (A relaxation of 5% for reserved categories and Ph.D. Degree holders who obtained their Master's Degree prior to 19 September, 1991 is permissible as per UGC Regulation July 18, 2018.) (ii) Good academic record with a Ph.D. Degree in relevant branch. (iii) Minimum of seven publications in the peer reviewed / UGC listed Journals and a total research score of seventy five (75) as per the criteria give in Appendix II, Table 2 of UGC Regulations. July 18, 2018. **Experience** (i)A Minimum of eight year of experience of teaching and / or research in a academic/ research position equivalent to that of Assistant Professor in a University, College or Accredited Research Institution / Industry. (ii) Contribution to educational innovation, design of new curricula and courses, and technology-mediated teaching learning process.	Mathematics Applied Mathematics Discrete Mathematics Industrial Mathematics Industrial Mathematics with Computer Applications Mathematics and Computing Financial Mathematics Stochastic Processes Operational Research Mathematical Modelling and Scientific Computing Advanced Scientific Computing Modeling and Simulation Statistics Applied Statistics Mathematical Statistics Financial Statistics Data Science Machine Learning Artificial Intelligence Artificial Intelligence and Machine Learning Deep Learning Big Data Analytics Computational Statistics and Machine Learning Simulation and Data Science Cloud Computing Actuarial Science Mathematics and Computer Science Applied Statistics and Data Analytics	**Note:** (i)The Ph.D. Degree shall be a mandatory qualification for appointment to the post of Associate Professor. (ii) A relevant grade which is regarded as equivalent of 55%, wherever the grading system is followed by a recognized University, at the Master 's level shall also be considered valid. (iii)The time taken by candidates to acquire M.Phil. and / or Ph.D. Degree shall not be considered as teaching/ research experience to be claimed for appointment to the teaching positions. Further the period of active service spent on pursuing Research Degree simultaneously with teaching assignment without taking any kind of leave, shall be counted as teaching experience for the purpose of direct recruitment. **Relaxation** i) A relaxation of 5% shall be allowed at the Bachelor's as well as at the Master's level for the candidates belonging to Scheduled Caste / Scheduled Tribe/ Other Backward Classes (OBC) (Non-creamy Layer) / Differently-abled (a) Blindness and low vision; (b) Deaf and Hard of Hearing; (c) Locomotor disability including cerebral palsy, leprosy cured, dwarfism, acid-attack victims and muscular dystrophy; (d) Autism, intellectual disability, specific learning disability and mental illness; (e) Multiple disabilities from amongst persons under (a) to (d) including deaf-blindness) for the purpose of eligibility and assessing good academic record for direct recruitment. The eligibility marks of 55% marks (or an equivalent grade in a point scale wherever the grading

			system is followed) and the relaxation of 5% to the categories mentioned above are permissible, based only on the qualifying marks without including any grace mark procedure. (ii) A relaxation of 5% shall be provided, (from 55% to 50% of the marks) to the Ph.D. Degree holders who have obtained their Master's Degree prior to 19 September, 1991.
Professor, Level-14, Entry Pay-144200/-	A. (i) M.A./M.Sc. in relevant branch with at least 55% Marks (or an equivalent grade in point scale when grading system is followed). (A relaxation of 5% for reserved categories and Ph.D. Degree holders who obtained their Master's Degree prior to 19 September, 1991 is permissible as per UGC Regulation July 18, 2018.) (ii) An eminent scholar with Ph.D. qualification in relevant branch. (iii) Published work of high quality, actively engaged in research with evidence of published work with a minimum of 10 research publications in the peer reviewed / UGC listed Journals and a total of research score of 120 as per the criteria in Appendix II, Table 2 of UGC notification dated 18 July, 2018. OR B. An outstanding professional with Ph.D. in relevant / allied / applied disciplines from academics / research institutions / industries. **Experience** A (i) 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 / industries with evidence of having successfully guided doctoral candidate.	Mathematics Applied Mathematics Discrete Mathematics Industrial Mathematics Industrial Mathematics with Computer Applications Mathematics and Computing Financial Mathematics Stochastic Processes Operational Research Mathematical Modelling and Scientific Computing Advanced Scientific Computing Modeling and Simulation Statistics Applied Statistics Mathematical Statistics Financial Statistics Data Science Machine Learning Artificial Intelligence Artificial Intelligence and Machine Learning Deep Learning Big Data Analytics Computational Statistics and Machine Learning Simulation and Data Science Cloud Computing Actuarial Science Mathematics and Computer Science Applied Statistics and Data Analytics	**Note:** (i) The Ph.D. Degree shall be a mandatory qualification for appointment to the post of Professor. (ii) A relevant grade which is regarded as equivalent of 55%, wherever the grading system is followed by a recognized University, at the Master 's level shall also be considered valid. (iii) The time taken by candidates to acquire M.Phil. and / or Ph.D. Degree shall not be considered as teaching/ research experience to be claimed for appointment to the teaching positions. Further the period of active service spent on pursuing Research Degree simultaneously with teaching assignment without taking any kind of leave, shall be counted as teaching experience for the purpose of direct recruitment. **Relaxation:** (i) A relaxation of 5% shall be allowed at the Bachelor's as well as at the Master's level for the candidates belonging to Scheduled Caste /Scheduled Tribe /Other Backward Classes (OBC) (Non-creamy Layer) /Differently-abled (a) Blindness and low vision; (b) Deaf and Hard of Hearing; (c) Locomotor disability including cerebral palsy, leprosy cured, dwarfism, acid-attack victims and muscular dystrophy;(d)Autism, intellectual disability, specific learning disability and mental illness; (e) Multiple disabilities from amongst persons under (a) to (d) including deaf- blindness) for the purpose of eligibility and

| | (ii) Contribution to educational innovation, design of new curricula and courses, and technology- mediated teaching learning process. OR B. Significant contributions to the knowledge in the concerned/ allied / relevant disciplines to be substantiated with documentary evidence. | | assessing good academic record for direct recruitment. The eligibility marks of 55% marks (or an equivalent grade in a point scale wherever the grading system is followed) and the relaxation of 5% to the categories mentioned above are permissible, based only on the qualifying marks without including any grace mark procedure. (ii) A relaxation of 5% shall be provided, (from 55% to 50% of the marks) to the Ph.D. Degree holders who have obtained their Master's Degree prior to 19 September, 1991. |

General Conditions

a) In institutions /universities where a division/class is not awarded, the candidate shall have to submit the relevant conversion formulae for proof of first division from their respective universities/institutes. If a division/class is not awarded, a minimum of 60% marks in aggregate shall be considered equivalent to first class/division. If a Grade Point System is adopted the CGPA will be converted into equivalent marks as per the Table given below:

Grade point	Equivalent Percentage
6.25	55
6.75	60
7.25	65
7.75	70
8.25	75

b) The screening of applications shall be done based on the candidate's API calculated as per prescribed guidelines

c) For the post of Assistant Professor, there will be a written test in Mathematics. The screening of applicants for the post of Assistant Professor shall be done on the basis of their combined API and the score on the written test.

d) Reservation for SC/ST/OBC/PH/EWS shall as per the UP-state government rules.

e) In case of exceptional merit, the Selection Committee may recommend a maximum of 03 additional increments for higher qualifications, experience and achievements by the candidates

f) Persons already in employment should apply through proper channel.

g) As per the UGC Gazette Notification dated October 12th 2021, Ph.D Degree shall be a mandatory qualification for direct recruitment to the post of Assistant Professor with effect from 01.07.2023.