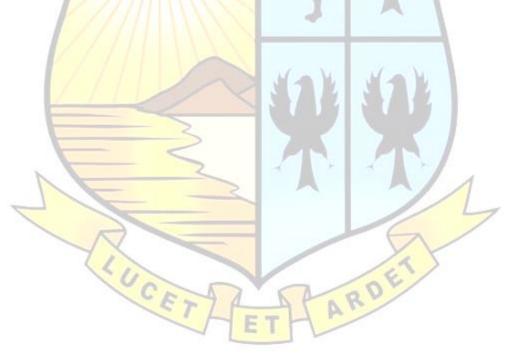


## **Bridge Course by the Department of Mathematics (2021-2022)**

The department of PG Studies and Research in Mathematics has conducted bridge course classes for the MSc Mathematics students on a weekly basis in the academic year 2021-22. The objective of these sessions were to make the foundational concepts in Mathematics strong among the students so that they are ready to solve the problems asked in competitive exams such as KSET/NET/GATE and other entrance exams to public services. The students were divided into small groups and tasks such as assignments, seminars and seminars and tests were conducted.



## ESTD: 1880





CLASS/ (2020-22) - Semester 2 Date: 06 10 2021 BRIDGE COURSE 1) Saniya Anjum (198029) Topic : Ordered sets, fields The Real field. 2) K.A. Deeksha (208003) Topic: Countable and Uncountable sets Compact Sets 3) Mufliha (208007) Topic: Convergent sequeences Subsequences Upper and lower limits 2 × 4) Shartina Sunny (208012) þm Topic: the Root and Ratio tests Power Series The Number e 5) Manefalli Kanchana (208018) Topic: The Derrivative of a Real function Mean Value theorem The continuity of Derivations.

terreracijerant B B B B geraljeratur



BRIDGE COURSE/ REMEDIAL (LASS (2020-2022) (Semistre D) [2025

- -) Saniya Angum Topology, Product topology, connected and compact spaces
- ) Christen Prem Vas Local connectedness, local compactness, Usysohn
- ) K.A. Duksha Product topology, compactness, Unit point compactness
- ) Rishnia Thomas Order itopology, Product topology, lenet point compartness, local compactness.
- Shreya Connected spaces, local connectedness, local compactness, Tutze extension tworem
  - Allen George Topology, Order topology, normal spaces, countakility arrows

Huda Lainaba Bashur-Connected spaces, compact space, separation axioms.

## ESTD : 1880

NAMES OF TAXABLE PARTY OF TAXABLE PARTY



LHSS (2020-22) - Servester I BRIDGE COURSE Date: 15 6 2022 1) Saniya Anjun (198022) Popie: Suppose 'A'is atmost countable and for every aEA, Bais countable. Then U Ba is atmost countable-deA 2) Reshma thomas (208010) Topic: The set of all orational numbers is comtable 3) Suresh B (208016) <u>Topic</u>: Let 'A' be countable set and let "Bn" denote ser set § (a, az, ... an); ak EAZ for all K, ISKEN. Then show that Bn is countable, +) Sumitha (208019) Topic: Let { pn} be a sequence in a meteric space X Spr} comorges to pEX if and only if every mighbourd of p contains all but finitly many terms of { pr 5) Huda Zaenaba Basheer (208022) <u>Topic</u>: Every infinite subset of a courtable set 'A' is countable. 6) Fathima Waseela (208021) <u>Topic:</u> 2f E & an infraete subsit of a compact set K, even E has a flemet fromt in K.

Name of Concession, and a diversion of the owner, where o