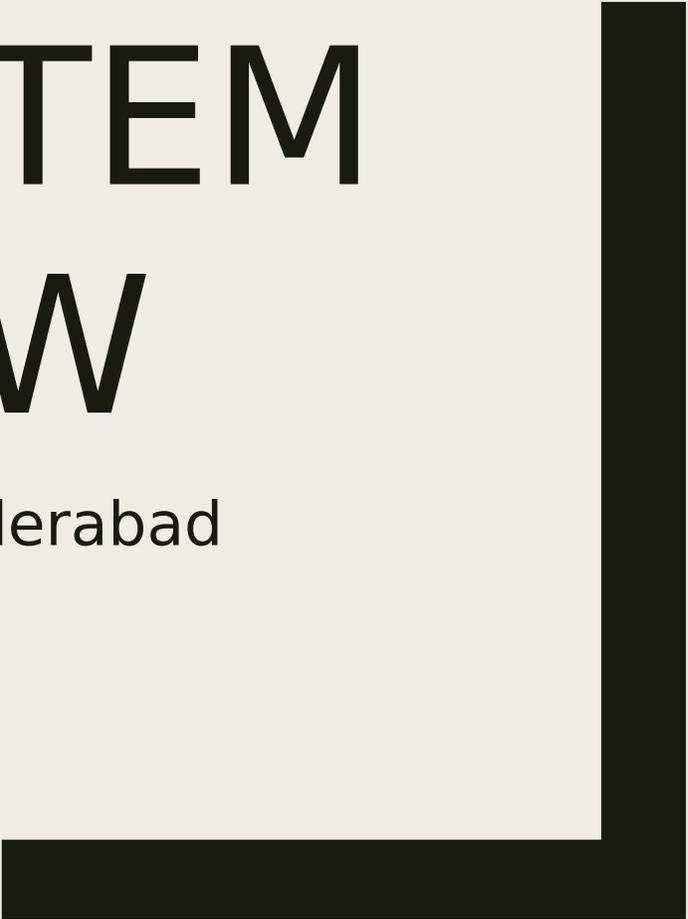




WOMEN IN STEM ROADSHOW

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STUDENT POPULATION

- Enthusiastic students from different batches – GCCA (genetics, chemistry, and computer applications), BMC (biochemistry, microbiology, and chemistry), GMC (genetics, microbiology, and chemistry) and MCCA (microbiology, chemistry, and computer applications) were encouraged to take part in the STEM workshop.
- We had to limit participation as the seats were limited for the workshop and there were large number of students who were disappointed as they could not participate.
- I learned valuable tips to motivate my students.
- I decided to routinely organize experiments and/or activities outside of the regular syllabus.
- One such activity was to grow plants invitro

ACTIVITY: Grow plants invitro

- I organized the activity in Shadan Degree College for Women where I am a full time faculty.
- Under sterile conditions, using laminar air flow chamber and autoclaves an enrichment medium for tissue culture was prepared.
- Each batch was given different seeds for inoculation and few were given the leaf of the same species.
- Some of the species studied were: Mustard (*Brassica Juncea*), Cumin, fenugreek, and Sesame seeds

RESULTS

- Comparison between seed and leaf incubation was recorded.
- On leaf, after incubation in incubators, the development of callus was observed.
- In inoculated seeds, after incubation; germination was observed.
- Students were excited to observe the results.
- Experimentation and hand-on learning is fun for students and more appealing
- Most of my students after the STEM roadshow recognize the importance of observation and inference.
- I am grateful for the workshop and thank Dr. Sultana Nahar for organizing.

My students with the results



Me and my students



Result of Invitro Growth of Plants

