NOTICE

MATH 3423

(Undergraduate Research Project)

Sem. II, 2022-2023

This is to notify all the students that if you are doing the undergraduate research project (MATH 3423) in Sem. II, 2022-2023 please contact the lecturers/supervisors with whom you would like to work and finalize your topic in advance. This will help you to concentrate on your work from the beginning of the semester.

Also please find the important points for your kind information as below:

- Making contact with a lecturer is not enough but both the lecturer and the student must agree.
- Students who wish to work as a group (not more than four) should approach the lecturer as a group.
- Student can work individually for a project (not as a group) with the consent of the supervisor.
- Supervisor may form a group for the project if he/she wishes.
- The work will carry out under the close supervision of one or more faculty members.

After consulting the supervisor and finalizing the topic, provide the details to Ms. Tashika Roach (Administrative Assistant, Mathematics Department) in the below format **by the first week of the second semester (i.e. particularly by 20-01-2023).**

Name of the student and ID	Supervisor's Name	Title of the research project /Topic	Email ID	Contact Number

Possible supervisors name and available topics can be found in **Page 2**.

If you wish you may please write to the other lecturers for their availability if they are not listed here.

Available topics and possible supervisors (MATH 3423, Sem II, 2022-2023)

Sl. No	Name of the Supervisor(s)	Area of Research/Topics
1	Sam McDaniel	• Probit versus Logit as Disease Predictive Models; • Classical versus Bayesian Statistics; • Comparing survival times using Cox' proportional hazards model.
2	Dr. Nordia Thomas	• Real Options/Optimization.
3	Dr. Mahesha Narayana	• Use of dynamical systems to understand Chaos; • Taylor series as a tool for non-linear problems.
4	Dr. Diptiranjan Behera	• Solution to non-linear differential equations; • Fuzzy linear programming problem; • Fuzzy differential equations.
5	Dr. Nagarani Ponakala	• Mathematical modelling of groundwater flow; • Mathematical Modeling of transport of atmospheric pollutants; • Special functions.
6	Dr. Victor Job	• Scientific application of variational methods for solving differential equations.
7	Dr. Tamika Royal-Thomas	• Emerging Trends in Data utilizing Longitudinal Analysis. (For example, the data could be looking at a disease such as diabetes, heart disease, cancer among other diseases over time or it may be financial data over time or climate change data). • Empirical data analysis examining factors and models that are associated with some diseases.
8	Dr. Kirk Morgan	• TBA
9.	Horace Jhonson	• TBA
10.	W. St. Elmo Whyte	• TBA

***TBA-To be announced**