1. ***FST 3302 SPECIAL PROJECT***
2. ***COURSE INSTRUCTOR (S)***

* *Dorothy Nakimbugwe*
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1. ***COURSE TYPE:***

* *Core course for Year 3 [and Year 4] BSc Food Science and Technology;*
* *Students required to have background knowledge in all related Food Science and Technology, and Nutrition, Statistical and research designs.*

1. ***COURSE STRUCTURE***

*Course is 5 credit units (5 CU): 5 practical hours per week for 15 study weeks; [i.e. 150 practical hours equivalent to 75 contact hours].*

1. ***COURSE DESCRIPTION***

*Special project selection for field or laboratory research. Each student chooses a special project topic and in consultation with a supervisor, develops a proposal. The research is conducted during the recess term and part of year IV, and the write up during year IV. The proposal and preliminary results are presented orally during semester 1 year IV. The report is submitted in semester II of the final year.*

1. ***COURSE OBJECTIVES***

***Overall objective***

*To give students knowledge, skills and experience into the process of conceptualizing, executing and reporting scientific research.*

***Specific Objective (s)***

*To develop research topics, execute the research study and write a report of the findings*

1. ***RECOMMENEDED REFERENCES***

* *Byaruhanga, Y. (Draft 2). STUDENTS’ GUIDE FOR RESEARCH AND COMMUNICATING RESEARCH.*
* *Food Science and Technology, and Nutrition journals and text books relevant to the students’ research topics*

1. ***COURSE CONTENT, METHODS OF INSTRUCTION, TOOLS AND***

***EQUIPMENT***

|  |  |  |  |
| --- | --- | --- | --- |
| ***Activity*** | ***Sub activities*** | ***METHOD OF INSTRUCTION/ Time allocation*** | ***TOOLS/ Equipment needed*** |
| 1. *Introduction* | * *Selection of research topics* * *Scientific writing* * *Development of proposal* | * *Interactive lecture (2 hrs)* | *• Visual aids –LCD projector*  *• Handouts and cited reading materials* |
| 1. *Development of research concept* | * *Literature review* * *Formulating and writing of research concept* | * *Individual students (5 hrs)* | *• Handouts and cited reading materials* |
| 1. *Supervisor identification* | * *Student consultation with staff in students’ areas of research interest* | * *Interactive activity of Individual students with potential supervisor (5 hrs)* | *Concept print out* |
| 1. *Concept review* | * *Review of concept by supervisor and revision by student* | * *Interactive activity of Individual students with identified supervisor (5 hrs)* | *Handouts and cited reading materials* |
| 1. *Development of full proposal* | * *Formulating and writing of proposal* | * *Interactive activity of Individual student assignment in consultation with identified supervisor (5 hrs)* | *• Handouts and cited reading materials* |
| 1. *Development of full proposal* | * *Formulating and writing of proposal* | * *Interactive activity of Individual student assignment in consultation with identified supervisor (5 hrs)* | *• Handouts and cited reading materials* |
| 1. *Proposal approval* | * *Presentation of the proposal* | * *Correcting proposal by student in consultation with supervisor (5 hrs)* | *• Visual aids –LCD projector* |
| 1. *Research/ experiments & draft report writing* | * *Research/ experiments* * *Data analysis* * *Draft report writing* | * *Individual student assignment in consultation with identified supervisor (5 hrs)* | *• Chemical reagents, materials, lab equipment*  *• Transport*  *• Analysis costs* |
| 1. *Research/ experiments & draft report writing* | * *Research/ experiments* * *Data analysis* * *Draft report writing* | * *Individual student assignment in consultation with identified supervisor (5 hrs)* | *• Chemical reagents, materials, lab equipment*  *• Transport*  *• Analysis costs* |
| 1. *Research/ experiments & draft report writing* | * *Research/ experiments* * *Data analysis* * *Draft report writing* | * *Individual student research in consultation with identified supervisor (5 hrs)* | *• Chemical reagents, materials, lab equipment*  *• Transport*  *• Analysis costs* |
| 1. *Research/ experiments & draft report writing* | * *Research/ experiments* * *Data analysis* * *Draft report writing* | * *Individual student research in consultation with identified supervisor (5 hrs)* | *• Chemical reagents, materials, lab equipment*  *• Transport*  *• Analysis costs* |
| 1. *Research/ experiments & draft report writing* | * *Research/ experiments* * *Data analysis* * *Draft report writing* | * *Interactive activity of Individual student research in consultation with identified supervisor (5 hrs)* | *• Chemical reagents, materials, lab equipment*  *• Transport*  *• Analysis costs* |
| 1. *!st report draft* | * *Submission and review of 1st draft* | * *Individual student research in consultation with identified supervisor (5 hrs)* | *• Printing cost*  *• Stationery* |
| 1. *2nd report draft* | * *Review of draft by supervisor* * *Revision of draft by student* * *Submission of revised draft by student* | * *Individual student research in consultation with identified supervisor (5 hrs)* | *• Printing cost*  *• Stationery* |
| 1. *Submission of final report* | * *Final revisions by student* * *Printing & binding of report* * *Submission of report* | *Individual student research in consultation with identified supervisor (5 hrs)* | *• Printing and binding cost*  *• Stationery* |

1. ***SUMMARY OF T IME NEEDED***

* *Practical hours 150 hrs*

1. ***OVERALL COURSE EVALUATION***

*Evaluation is done using the guide below by internal and external examiners and computed as average mark.*

***MAKERERE UNIVERSITY, FACULTY OF AGRICUKTURE***

*CANDIDATE: ……………………………………………………………………………*

*TITLE OF PROJECT: ……………………………………………………………………*

*……………………………………………………………………………………………*

*FIRST EXAMINER: ……………………………………………………………………*

*SCEOND EXAMINER: …………………………………………………………………*

*EXTERNAL EXAMINER: ………………………………………………………………*

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| --- | --- | --- | --- | --- |
|  | ***Maximum marks*** | ***First***  ***examiner*** | ***Second***  ***examiner*** | ***External***  ***examiner*** |
| ***GENRAL ORGANISATION***  *Organization of the report into a logical sequence* | *5* |  |  |  |
| ***INRTODUCTION***  *Ecological, sociological, economic and /or political factors forming background and proper exposition of problem* | *15* |  |  |  |
| ***LITERATURE REVIEW***  *Acquaintance with and appreciation of published literature in general area of project* | *10* |  |  |  |
| ***METHODLOGY***  *Clear explanation of the methods and materials used, indicating suitability or limitation* | *10* |  |  |  |
| ***ADEQUACY OF DATA***  *Adequacy of data on all aspects of the problem irrespective of presentation* | *10* |  |  |  |
| ***PRESENTATION OF RESULTS***  *Relevance of tables, diagrams etc. Proper and discrete sub-division into sections* | *15* |  |  |  |
| ***INTERPRETATION OF RESULTS***  *Correct analysis and interpretation of the data as revealed by discussion of tables, diagrams etc., and conclusion made* | *25* |  |  |  |
| ***EXPRESSION***  *Correct grammar and usage of words, clear and concise language* | *5* |  |  |  |
| ***CITATION OF LITERATURE***  *Appropriate citation of literature throughout the text, and in the list of references* | *5* |  |  |  |
| ***TOTAL MARKS*** | *100\** |  |  |  |

*NOTE: AN examiner may award up to 5 bonus marks for exceptional ideas or fore concepts, or for exceptional effort in the collection of data*

***BACKGROUND***

*The year IV special projects are an important part of the DFST degree in which the students develop and build a positive and professional research culture. The DFST is therefore continually looking for ways to improve them. An area that currently requires improvement is the timely completion of the research, timely write up and submission of reports.*

*To remedy that situation, the following were resolved by the DFST academic and technical staff:*

*1. Special projects will have a continuous progress evaluation, just like other courses. 40% of the final marks will be awarded towards the continuous progress performance.*

*The following will be evaluated:*

1. *Pre-processes up-to proposal presentation*
2. *Monthly progress made, as evaluated by the supervisor and technician*
3. *Timely submission of the monthly reports*
4. *Timely submission of final report*

*A table will be provided for the purpose of evaluation monthly reporting and evaluation.*

*2. The continuous evaluation will be undertaken once a month. The students will fill in an evaluation form indicating the work done during the course of the month.*

*The monthly progress reports will be approved by both the project supervisor and the technician who supervised the laboratory/field work, and submitted to the Special projects coordinators.*