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*Course Outline*

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Course Title (Code)	Financial Modelling (BFXU-03-BCM-FNE3322)
Core or Elective	JSBF Cross Elective
Program and Batch	NA
Semester & Academic Year	Spring 2026
Credits	Four
Discipline/Area	Finance and Accounting
Provide details if this course is a Prerequisite for any course/specialisation	-
Name of the Faculty Member/Course Instructor	Prof. Kewal Singh
Contact Details of the Faculty Member	kewal.singh@jgu.edu.in
Contact Details of Support Staff	NA
Faculty Member's Open Office Day/s & Time	Tuesdays & Thursdays / 4:00 PM to 6:00 PM

### **Introduction to the Course**

This elective course is *Financial Modelling*. In this course, learners will learn the application of accounting and finance, particularly corporate finance modelling, using MS Excel. In this course, students will apply accounting and financial concepts they have learned or will learn in class to real Indian companies.

This course explores the application of financial modelling techniques to corporate finance scenarios. It equips students with the skills to construct and analyse complex financial models, assess financial risks, and evaluate informed investment opportunities.

Additionally, this course will also shed light on how companies manage different projects financially, including capital budgeting decisions to determine whether to invest in various projects. As these decisions are based on the company's expected cash flows, we will also do cash flow projects for these projects.

**Prerequisites:** Basic knowledge of financial accounting and corporate finance principles. Proficiency in Microsoft Excel.

## Course Learning Objectives (CLOs)

Upon successful completion of this course, students will be able to:

- CLO1:** Develop proficiency in using financial modelling tools and techniques
- CLO2:** Construct and analyse complex financial models for corporate and project finance scenarios
- CLO3:** Evaluate investment opportunities and assess financial risks
- CLO4:** Apply financial modelling to support decision-making in various corporate and project contexts.
- CL05:** Communicate financial results effectively to stakeholders

## Teaching Method

A combination of lectures and hands-on practical exercises involving real-world data. Students will actively engage with the course material both inside and outside the classroom, gaining practical experience in the workings of corporate and project finance.

## Evaluation Schema

The course grade will be determined using the following scheme:

Assessment Task	Weightage	Nature	Week of Assessment
A1: Quizzes	15+15	Individual	Weeks 6 and 12
A2: Class Participation	10	Individual	Continuous
A3: Industry Simulation Project	15+15	Group	Week 14
A4: End Term	30	Individual	End of Semester

## Description of Assessments:

Class Quiz	There will be two Excel-based quizzes (in the classroom) with multiple-choice questions/fill-in-blank/ open-ended questions, each worth fifteen marks.
Class Participation	Class participation will be evaluated continuously, taking into account the quality of students' contributions during class discussions.

Industry Simulation Project	Students work in teams to complete a multi-phase industry simulation, where each phase unlocks based on prior work.
End Term	The end-term exam will adhere to the University's policy and be conducted as a closed-book examination in a computer lab.

### Textbook / Course Package / Other Readings

#### Suggested Books:

- Corporate and Project Finance Modeling: Theory and Practice by Edward Bodmer (latest edition), Wiley Finance. **(TB1)**
- Fundamentals of corporate finance by Ross, S. A., Westerfield, R., & Jordan, B. D. (latest edition), McGraw-Hill Education. **(TB2)**
- Microsoft Excel Data Analysis and Business Modeling by Wayne L. Winston (latest edition), PHI Learning Pvt. Ltd. **(TB3)**

#### Handout/Other Readings

Wherever necessary, the handouts and other reading material will be shared during the course.

#### Grade Sheet:

The schema of the grade sheet may change. Students will be informed well in advance of any changes in the schema of the grade sheet.

Letter Grade	Percentage of Marks	Grade Value	Grade Definitions
O	80 and above	8	Outstanding: Exceptional knowledge of the subject matter, thorough understanding of issues, ability to synthesise ideas, rules and principles and extraordinary critical and analytical ability.
A+	75-79	7.5	Excellent: Sound knowledge of the subject matter, thorough understanding of issues, ability to synthesise ideas, rules and principles and critical and analytical ability.
A	70-74	7	Very Good: Sound knowledge of the subject matter, excellent organisational capacity, ability to synthesise ideas, rules and principles, critically analyse existing material and originality in thinking and presentation.
A-	65-69	6	Good: Good understanding of the subject matter, ability to identify issues and provide balanced solutions to problems and good critical and analytical skills.

<b>Letter Grade</b>	<b>Percentage of Marks</b>	<b>Grade Value</b>	<b>Grade Definitions</b>
B+	60-64	5	Fair: Average understanding of the subject matter, limited ability to identify issues and provide solutions to problems and reasonable critical and analytical skills.
B	55-59	4	Acceptable: Adequate knowledge of the subject matter to go to the next level of the study and reasonable critical and analytical skills.
B-	50-54	3	Marginal: Limited knowledge of the subject matter and irrelevant use of materials, and poor critical and analytical skills.
P1	45-49	2	Pass 1: Pass with a basic understanding of the subject matter.
P2	40-44	1	Pass 2: Pass with a rudimentary understanding of the subject matter. (Not applicable to Bachelor of Architecture)
F	Below 40	0	Fail: Poor comprehension of the subject matter, poor critical and analytical skills and marginal use of the relevant materials. Will require repeating the course.
P	Pass		‘P’ represents the option of choosing between a Pass/Fail grading system over the CGPA grading system in the COVID-19 semester in Spring 2020. The option is provided when students attain a minimum of 40 percentage marks under the current grading structure in each subject.
I	Incomplete		Extenuating circumstances preventing the student from completing coursework assessment or taking the examination; or where the Assessment Panel at its discretion assigns this grade. If an “I” grade is assigned, the Assessment Panel will suggest a schedule for the completion of work or a supplementary examination.

## **JGU Policies and Expectations**

### **Academic Integrity and Plagiarism:**

Learning and knowledge production of any kind is a collaborative process. Collaboration demands an ethical responsibility to acknowledge whom we have learnt from, what we have learned, and how reading and learning from others have helped us shape our own ideas. Even our own ideas demand an

acknowledgement of the sources and processes through which those ideas have emerged. Thus, all ideas must be supported by citations. All ideas borrowed from articles, books, journals, magazines, case laws, statutes, photographs, films, paintings, etc., in print or online must be credited with the original source. If the source or inspiration of your idea is a friend, a casual chat, or something that you overheard, or heard being discussed at a conference or in class, even they must be duly credited. If you paraphrase or directly quote from a web source in the examination, presentation or essays, the source must be acknowledged. The University has a framework to deal with cases of plagiarism. All forms of plagiarism will be taken seriously by the University, and prescribed sanctions will be imposed on those who commit plagiarism.

### **Disability Support and Accommodation Requirements:**

JGU endeavours to make all its courses accessible to students. All students with any known disability needing academic accommodation are required to register with the Disability Support Committee at [dsc@jgu.edu.in](mailto:dsc@jgu.edu.in). The Committee has so far identified the following conditions that could possibly hinder students' overall well-being. These include physical and mobility-related difficulties; visual impairment; hearing impairment; medical conditions; specific learning difficulties, e.g., dyslexia; mental health. The Disability Support Committee maintains strict confidentiality of its discussions. Students should preferably register with the Committee during the month of June/January as disability accommodation requires early planning. DSC will approve and coordinate all disability-related services, such as the appointment of academic mentors, arranging infrastructural facilities, and course-related requirements, such as special lectures, tutorials, and examinations.

### **Safe Space Pledge:**

This course may discuss a range of issues and events that might result in distress for some students. Discussions in the course might also provoke strong emotional responses. To make sure that all students collectively benefit from the course and do not feel disturbed due to either the content of the course or the conduct of the discussions. Therefore, it is incumbent upon all within the classroom to pledge to maintain respect towards our peers. This does not mean that you need to feel restrained about what you feel and what you want to say. Conversely, this is about creating a safe space where everyone can speak and learn without inhibitions and fear. This responsibility lies not only with students but also with the instructor.

**Session Plan\*:**

<b>Week No.</b>	<b>Session Details</b>	<b>CLOs Covered</b>
<b>Week 1-2</b>	<b>Financial Modelling: Fundamentals</b> Reading: TB1: Chapters 1-5	<b>1</b>
<b>Week 3-5</b>	<b>Basis Financial Analysis and Modelling</b> Reading: TB2: Chapters 5-10	<b>1 - 3</b>
<b>Week 6-7</b>	<b>Calculating the Project's Weighted Average Cost of Capital</b> Reading: TB1: Chapter 14	<b>4</b>
<b>Week 8-9</b>	<b>Corporate Valuation (Incl. Analysis of Corporate Decisions)</b>	<b>1 - 3</b>
	Reading: TB2: Chapters 8-11	
<b>Week 10-12</b>	<b>Bond Pricing, and Option Pricing – Introductory</b> Reading: TB1: Chapters 12-13, TB2: Chapters 2, 11 & 16.	<b>3 - 4</b>
<b>Week 13</b>	<b>Case Studies</b> Reading: All previously suggested chapters	<b>All CLOs</b> <b>All CLOs</b>
<b>Week 14</b>	<b>Project Presentations</b> Reading: All previously suggested chapters	<b>All CLOs</b>
<b>Week 15</b>	<b>Revision and Doubt-Clearing Sessions</b> Reading: All previously suggested chapters	<b>All CLOs</b>

*\* Some topics can change, but students will get prior information.*