

Course Information

Course Number/Section	OPRE6369/MIS 6369.0w1
Course Title	Supply Chain Software with SAP: Planning, AI, and Blockchain
Term	Fall 2025

Professor Contact Information

Professor	Dr. Ramesh Subramoniam
Office Phone	972 883 4773
Email Address	Use eLearning messages for all communications
Professor Online Office Hrs	Monday Noon – 1 PM Mon on MS Teams or by appointment
Instruction Modality	Online & Scheduled Conference calls for case discussions

TA	Meneka Bhuiyan
TA Communication	Use elearning messages for communication
TA Office Hours	Friday 10 AM – 11 AM (<i>MS Teams link to join in elearning</i>)

About the Instructor

Dr. Ramesh Subramoniam is a Professor of Practice in the Jindal School of Management. He teaches undergraduate and graduate courses in Operations and Supply Chain Management. Prior to joining UTD full time in 2018 he worked in leadership roles for industry and consulting for 27+ years gaining experience in Engineering, Operations and Supply Chain Management.

Course Pre-requisites, Co-requisites, and/or Other Restrictions

OPRE 6366 Supply Chain Management or permission of instructor

Course Description

Course Description: **Supply Chain Software with SAP: Planning, AI, and Blockchain Innovations** (3 semester credit hours) This course introduces supply chain planning with software such as SAP's S/4 HANA and Integrated Business Planning (IBP) with case discussions and lab exercises. This software is used in lab exercises with a focus on the supply planning function of supply chain management. Topics include fundamentals of ERP and SAP, master and transaction data, MRP, forecasting, supply and demand matching. This course is intended for students with interests in software-based supply chain management or digital supply chains. Emerging trends including Artificial Intelligence and Blockchain Solutions in supply chain systems will also be discussed. No prior SAP experience required. (3-0)

Student Learning Objectives/Outcomes

Upon completion of this course students will be able to:

1. Explain the concept of a supply chain and explain their role in a global economy.
2. Navigate the SAP user interface to create, modify or access information related to supply chain management.
3. List the SAP R3 master data objects used in supply chain management.
4. Create the following SAP master data objects: 1) material master, 2) Bill of Material master, 3) Work Center master, 4) Routing master, 5) Vendor master, 6) Purchasing information record.
5. Explain the concept of Demand Management within a SAP environment and select an appropriate strategy for various demand fulfillment models.
6. Run the SAP MRP program and interpret the results.
7. Explain the essential elements of the SAP Core Interface (CIF) and Integration Models in SAP APO.
8. Understand Sales and Operations Planning (S&OP) and how it can help deal with disruption
9. Learn to create a Supply chain network in SAP Integrated Business Planning (IBP) and do analytics
10. Install Excel Add in and do lab exercise in Sales and Operations Planning using SAP IBP

Required Textbooks and Materials

Required Text

This text book was revised over the 2022 summer. The new edition is the 5th edition. The e-book is only available through download from the publisher's web site.

ACCESS CODE

To purchase access to the 5th edition of SAP SCM: visit

<https://he.kendallhunt.com/product/sap-scm-supplement-sap-based-supply-chain-management-courses>

After your purchase, you will receive an email with a unique access code, which you will use in the following steps.

LOG IN INSTRUCTIONS

Browser minimum: Internet Explorer 11, Firefox 3.6 +, Safari 4.0 +, and Chrome 9.0 +. JavaScript must also be enabled in your browser. Some online publications may require additional free browser plug-ins (e.g., Flash, Adobe Acrobat).

Go to: <https://www.khpcontent.com/>

You will use your one-time-use online access code to set up your account the first time that you access this page. After you set up your account and create a password, you will be able to enter the Login portion of this page.

TO SET UP A NEW ACCOUNT

1. Go to <https://www.khpcontent.com/>. In the First Time User (with access code) section, enter the Access Code provided below. Click the Next button.
2. Confirm your institution and your publication. Click Next.
3. If your publication has multiple sections, you must select the section you are enrolled in. If there is only one section available this step will be skipped and you will be taken directly to the Create An Account page.
4. Once on the Create An Account page, you will set up your user account and create your username and password.
**Your username will be the e-mail address that you enter.
Write down your Password to ensure your success in entering the publication after the initial setup.
5. Upon entering the information to create your account, click Next.
6. Your Registration is complete! Click on the "Login to WebCOM" button to access your publication.
7. Now that you have created an account, you can log into the publication through the Sign In portion of the home page.

Required Other Materials

Harvard Business School Review Course Pack

<https://hbsp.harvard.edu/import/1310113>

Suggested Course Materials

Suggested Readings/Texts

- Instructor will provide a bibliography of suggested readings but all exam questions and problems will come from the required text.

Technical Requirements

In addition to a confident level of computer and Internet literacy, certain minimum technical requirements must be met to enable a successful learning experience. Please review the important technical requirements

<http://www.utdallas.edu/elearning/students/getting-started.html#techregs> on the Getting Started with eLearning webpage <http://www.utdallas.edu/elearning/students/getting-started.html>.

Course Access and Navigation

The course can be accessed using the UT Dallas NetID account at: <https://elearning.utdallas.edu>. Please see the course access and navigation <http://www.utdallas.edu/elearning/students/getting-started.html#courseaccessandnav> section of the site for more information.

To become familiar with the eLearning tool, please see the Student eLearning Tutorials

<http://www.utdallas.edu/elearning/students/eLearningTutorialsStudents.html>.

UT Dallas provides eLearning technical support 24 hours a day/7 days a week. The eLearning Support Center

<http://www.utdallas.edu/elearninghelp> services include a toll free telephone number for immediate assistance (1-866-588-3192), email request service, and an online chat service.

WEEK/ DATES	TOPIC/LECTURE	READING	ASSESSM ENT / ACTIVITY	DUE DATE
1 8/25-8/29	Instructor Intro Syllabus Review Unit 1 - Introduction to SAP	Ch 1, 2, 3, 4, 5 of Text book	Syllabus Assessment Quiz Install SAP GUI	8/31
2 9/2-9/5	Unit 2 - Introduction to Supply Chain Management Product Definition Process	Ch 6, 7, 8 of Text book	SAP Navigation	Not to be submitted
3 9/8-9/12	Unit 3a – Material Master Unit 3b – BOM Master Material Master demo Bill of Material Master demo	Appendix A All Exercises from Chapter 12 of text Book	Lab Ex 1 Lab Ex 2	9/7 9/14
WEEK/ DATES	TOPIC/LECTURE	READING	ASSESSM	DUE DATE

DATES			ENT / ACTIVITY	
4 9/15 - 9/19	Unit 4a – Purchasing Master Data Unit 4b – Work center Master Data Business Case 1 demo Production Definition Process Calculating Capacity demo Team Purchasing Systems Case Submission (Questions will be posted in elearning Announcement)	White Papers Section of elearning HBR Course Pack	Business Case 1 Lab Ex 3	9/21 9/28 10/19
5 9/22-9/26	Unit 5a - Routing Master Unit 5b - Production Version Calculating Lead Time White Board Session Video – Manufacturing Processes Team Routing Case Submission (Questions will be posted in elearning Announcement)	 Routing Case in the White Papers Section of elearning	Lab Ex 4 & 5 Business Case 2G	10/5 10/12 10/26
6 9/29-10/3	Unit 6 - Demand Management Material Planning Process Demand Management White Board Sessions			
7 10/6-10/10	Unit 7 – Material Requirements Planning Video – MRP at Wheeler Ambulance Business case 2 demo Lot Sizing demo Basic Scheduling demo Exam Prep			
8 10/11-10/12	10/11-10/12 Online Honorlock	Midterm Exam		
9 10/13-10/17	Unit 8a - Introduction to SAP APO Unit 8b - SAP Core Interface (CIF)			
WEEK/ DATES	TOPIC/LECTURE	READING	ASSESSMENT / ACTIVITY	DUE DATE

10 10/20-10/24	Unit 9 - Demand Planning basics Video – Forecasting at Hard Rock Café Team Submit DEP/GARD Case Study Review from Page 151 of Text book (Questions will be posted in elearning Announcement)	Team DEP/GARD Case Study submission		11/2
11 10/27-10/31	Unit 10a – Supply Chain Disruption and Changing Trends Unit 10b – Market driving SAP IBP - Sales and Operations Planning (S&OP) Unit 11 – SAP APO to IBP Integrated Business Planning (IBP) using SAP IBP Comparison with APO			
12 11/3-11/7	Unit 12a – SAP IBP Modules Unit 12b – SAP IBP Architecture, Planning Models and Attributes Unit 12c – SAP IBP consulting Career Unit 12d - SAP Implementation Methodology Team Madras Cements HBR Case Submission (Questions will be posted in elearning Announcement)	HBR Course Pack		11/16
13 11/10-11/14	Unit 13 – Blockchain Presentation An Introduction to Data Science/AI for the Nontechnical Person <u>(No Submission required, included in the final exam.)</u>	HBR Course Pack	IBP Exercise Submission (Team & Individual)	11/23
14 11/17-11/21	Unit 14 – AI Presentation (Parts A and B) How Generative AI improves supply Chain Management (No submission required. Included in the final exam) Exam Prep	HBR Course Pack		
15 11/24-11/28	HOLIDAY BREAK			
16	12/1-12/5 online Honorlock	Final Exam		12/1-12/5

12/1 – 12/5				
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Communication

This course utilizes online tools for interaction and communication. Some external communication tools such as e-learning messages and a web conferencing tool may also be used during the semester. For more details, please visit the eLearning Tutorials webpage <http://www.utdallas.edu/elearning/students/eLearningTutorialsStudents.html> for video demonstrations on eLearning tools.

Student emails and discussion board messages will be answered within 3 working days under normal circumstances.

Distance Learning Student Resources

Online students have access to resources including the McDermott Library, Academic Advising, The Office of Student AccessAbility, and many others. Please see the eLearning Current Students page <http://www.utdallas.edu/elearning/students/cstudents.htm> for details.

Server Unavailability or Other Technical Difficulties

The University is committed to providing a reliable learning management system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will provide an appropriate accommodation based on the situation. Students should immediately report any problems to the instructor and also contact the online eLearning Help Desk <http://www.utdallas.edu/elearninghelp>. The instructor and the eLearning Help Desk will work with the student to resolve any issues at the earliest possible time.

Assignments & Academic Calendar

Proctored Final Exam Procedures

If your course has a proctored exam requirement, please see the Student Success Center Proctored Exam website http://www.utdallas.edu/studentssuccess/testingcenter/proctored_exams/index.html to make arrangements.

Grading Policy

Weights

Midterm exam	25	%
Final exam	25	%
Lab Exercises	25	%
Team Case Submissions	25	%
Total		100%

Grading Scale

Weighted Average Grade	Earned Course Letter Grade
93 +	A
90 – 93	A-
87 – 90	B+
83 – 87	B
80 – 83	B-
77 – 80	C+
70 – 77	C
Under 70	F

Course Policies

Makeup Exams

Students are expected to take exams during the regular scheduled dates. Make-up exams will be allowed for instances of severe hardship or serious illness.

Extra Credit

An extra credit opportunity may be announced after the midterm exam.

Late Work

Hands-on exercises may be submitted up to 24 hours after the due date. However, a 15% reduction in grade will be assessed. All lab exercises will be submitted using the Assignments function of eLearning. Attaching lab exercises to emails or e-learning messages is NOT a valid method of submitting exercises. After the 24 hour grace period there is no opportunity to submit late work.

Students may discuss lab exercises but each student is expected to do his/her own work including the software data entries and responses to Discussion Questions and problems. Therefore it is expected that your lab exercise submissions should NOT be identical to another student. If this occurs a referral to the Office of Judicial Affairs may result.

Special Assignments

Instructor will schedule several online web conferences during the semester. Students are encouraged but not required to attend live or watch the recorded sessions.

Class Participation

Students are required to login regularly to the online class site. The instructor will use the tracking feature in eLearning to monitor student activity. Students are also required to participate in all class activities such as discussion board, chat or conference sessions and group projects. **It is especially important for students to regularly check for announcements or elearning messages from the instructor.**

Virtual Classroom Citizenship

The same guidelines that apply to traditional classes should be observed in the virtual classroom environment. Please use proper netiquette when interacting with class members and the professor.

Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

“As a Comet, I pledge honesty, integrity, and service in all that I do.”

UT Dallas Syllabus Policies and Procedures

Proctored Final Exam Procedures

If your course has a proctored exam requirement, please see the [UTD Testing Center](#) webpage and [Distance Learning Proctored Exams](#) webpage to make arrangements.

Class Materials

The Instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course, however, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Case Participation/Submission

This includes engaging in group or other activities that solicit your feedback on homework assignments, readings, or materials covered in the lectures (and/or labs). Please let the instructor know if anybody in the team is not participating in the case discussions early in the semester before the first case submission. Successful participation is defined as consistently adhering to University requirements, as presented in this syllabus. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Class Recordings

Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Note: if the instructor records any part of the course, then the instructor will need to add the following syllabus statement:

The instructor may record meetings of this course. These recordings will be made available to all students registered for this class if the intent is to supplement the classroom experience. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law.

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Academic Support Resources

The information contained in the following link lists the University's academic support resources for all students.

Please go to [Academic Support Resources](#) webpage for these policies.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please review the catalog sections regarding the [credit/no credit](#) or [pass/fail](#) grading option and withdrawal from class.

Please go to [UT Dallas Syllabus Policies](#) webpage for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.