			Government College of Engineering, Kara									
			Second Year (Sem – III) B. Tech. Civil Engine									
			Open Elective- I- Material Management with									
	ng Sch			nination Sche	me							
Lecture		03 Hrs/week	ISE		50							
Tutoria	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00 Hrs/week	ESE		50		10.0					
Total C	Credits	03										
	F1-20-120-7		Durat	tion of ESE	As applic	able						
	uisite :											
			ents will be able to				14					
CO1	Demoi	nstrate proficien	cy in navigating the SAP S/4HANA interface a	and understan	ding the	fund	amenta					
			erials Management (MM) module.									
CO2	Descri	cribe and configure procurement processes, including enterprise structure, source determination, and										
	docum	ent release proce	edures within the SAP MM environment.									
CO3	Execut	te core procurem	ent operations such as creating purchase requisitions	, purchase orde	ers, goods	rece	ipts, an					
			ing standard and advanced transactions.									
CO4			te master data related to materials, business part	ners, purchas	ing info	reco	ds, an					
~~-			sential for MM operations.									
CO5			rocurement processes including self-service requi		oicing pl	ans,	blanke					
	purcha	se orders, and fl	exible workflow configuration for document release.									
	- NT -		Course Contents		C	<u>o</u>	Hour					
Unit 1		gation in SAP S	6/ <b>4HANA:</b> of SAP S/4HANA, Navigation		00							
	Proc		01,	(4)								
		C(	) 2									
Unit 2		Procurement	nent Processes, Identifying the Organizational Units	III I Tocurcinci	It .							
2 1111 2	Crea											
	Mas		)3,	(5)								
		ning CO	<b>)</b> 4									
	Purc	hasing Info Reco	s Partner Master Data, Maintaining Material Master l ord, Analyzing Material Valuation		0							
Unit 3			pared with Consumable Material:									
	Com	paring Procurer	nent Processes for Stock and Consumption, Cres	ating a Purch	nase							
	Requ	isition, Creating	a Purchase Order with Reference to a Purchase Requirement	uisition, Enter	ring							
	Valu	ated and Non-Va	aluated Goods Receipts.		1.01							
	Adva	anced Transact	ions in Procurement:		C	<b>D3</b>	(6)					
	Mair	itaining a Purc	hasing Contract, Creating a Purchase Requisiti	ion with Sou	irce							
	Dete											
	Adva	oice										
	Veri	fication										
Unit 4			anizational Units:									
			nal Units in Materials Management, Defining and A	ssigning Plant	S							
		hasing Master				<b>D4</b>	(5)					
	Exte	nding Material N	Master Records, Creating Business Partners, Using	Partner Functi	ons							
TT - 1. 5		rchasing										
Unit 5		ces of Supply a										
	Crea	ting Purchasing	Info Records, Creating Special Info Records, Using	Special Functi	ons							
	in in	to Records, Cre	eating Contracts, Creating Contracts for Material	Groups, Creat	ting							
	Sche	duling Agreeme	nts Without Release Documentation									
		ce Determination			C	<b>D2</b>	(6)					
	Cont	rolling Source D	etermination with Source Lists, Maintaining Source	Lists, Controll	ling							
	Sour	ce Determination	n with Quota Arrangements, Executing the Planning	g Run with Qu	iota							
	Arrangements, Identifying Additional Aspects of Source Determination, Blocking Sources											
¥7. •	of Su	**										
Unit 6	Opti	mized Purchasi	ng:									
Unit 6	Opti Proce	mized Purchasi essing Unassigne	ng: ed Purchase Requisitions, Processing Assigned Purch		ons, CO	02,	(5)					
Unit 6	Opti Proce Mon	mized Purchasi essing Unassigne itoring Purchase	ng: ed Purchase Requisitions, Processing Assigned Purch			02,	(5)					



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	Analyzing Special Aspects in Customizing, Defining Function Authorizations for Buyers						
Un	<ul> <li>Document Release Procedure:         <ul> <li>Releasing Purchase Requisitions, Releasing Purchasing Documents, Configuring Release Procedures in Customizing, Creating Release Procedures, Setting Up Flexible Workflows in Purchasing.</li> </ul> </li> <li>Self-Service Requisition:         <ul> <li>Performing a Self-Service Process, Confirming a Goods Receipt</li> </ul> </li> </ul>	CO5	(5)				
Un	Unit 8 Specific Procurement Processes: Using Invoicing Plans, Creating Blanket Purchase Orders						
	Osing involving Fians, Creating Dianket Furchase Orders	CO5					
Тех	t Books						
1.	SAP MM (Covers SAP ECC 6.0) Black Book Author: Kogent Learning Solutions Inc. Publisher:	Dreamted	ch Press				
	ISBN: 9788177223804 Edition: Latest						
2.	ISBN: 9788177223804 Edition: Latest  SAP MM Purchasing: Technical Reference and Learning Guide Author: P.K. Agrawal Publisher: Pvt. Ltd. ISBN: 9788120348516 Edition: Latest	PHI Lear	ning				
3.	SAP MM Purchasing: Technical Reference and Learning Guide Author: P.K. Agrawal Publisher:						
3.	SAP MM Purchasing: Technical Reference and Learning Guide Author: P.K. Agrawal Publisher: Pvt. Ltd. ISBN: 9788120348516 Edition: Latest SAP Materials Management (with CD-ROM) Author: Mukesh Shukla Publisher: Tata McGra						
3.	SAP MM Purchasing: Technical Reference and Learning Guide Author: P.K. Agrawal Publisher: Pvt. Ltd. ISBN: 9788120348516 Edition: Latest SAP Materials Management (with CD-ROM) Author: Mukesh Shukla Publisher: Tata McGrar ISBN: 9781259028390 Edition: 2nd Edition	w-Hill Ec	lucation				
3. Ref 1.	SAP MM Purchasing: Technical Reference and Learning Guide Author: P.K. Agrawal Publisher: Pvt. Ltd. ISBN: 9788120348516 Edition: Latest  SAP Materials Management (with CD-ROM) Author: Mukesh Shukla Publisher: Tata McGrar ISBN: 9781259028390 Edition: 2nd Edition  Ference Books  Materials Management with SAP S/4HANA Author: Jawad Akhtar Publisher: SAP Press ISBN:	w-Hill Ec	lucation				
3. Ref 1.	SAP MM Purchasing: Technical Reference and Learning Guide Author: P.K. Agrawal Publisher: Pvt. Ltd. ISBN: 9788120348516 Edition: Latest  SAP Materials Management (with CD-ROM) Author: Mukesh Shukla Publisher: Tata McGrar ISBN: 9781259028390 Edition: 2nd Edition  erence Books  Materials Management with SAP S/4HANA Author: Jawad Akhtar Publisher: SAP Press ISBN: Edition: 3rd Edition, 2024	w-Hill Ec	lucation				
3. Ref 1. Use	SAP MM Purchasing: Technical Reference and Learning Guide Author: P.K. Agrawal Publisher: Pvt. Ltd. ISBN: 9788120348516 Edition: Latest  SAP Materials Management (with CD-ROM) Author: Mukesh Shukla Publisher: Tata McGrav ISBN: 9781259028390 Edition: 2nd Edition  erence Books  Materials Management with SAP S/4HANA Author: Jawad Akhtar Publisher: SAP Press ISBN: Edition: 3rd Edition, 2024  ful Links	w-Hill Ec	lucation				

PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	РО	PO	PO
$\rightarrow$										10	11	12
CO \												
CO 1	2	1		_	3	)? <del></del>	_	_	1	2	1	2
CO 2	2	2	3	_	3	8	_	_	1	2	2	2
CO 3	2	2	3	_	3	_		_	1	2	2	2
CO 4	2	2	3	_	3	- '	_	_	1	2	2	2
CO 5	2	2	3	_	3	_	_	_	2	2	3	3

# Assessment Pattern (with revised Bloom's Taxonomy)

Knowledge Level	ISE	ESE
Remember	8	8
Understand	8	8
Apply	8	8
Analyse	8	8
Evaluate	8	8
Create	10	10
TOTAL	50	50

BOS Chairman



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				nent College of Engineering, Kar						
		LOFIA		(Sem – III) B. Tech. Civil Engin		r . D				
			46 : OE I Lab-	Material Management with SAP						
	ratory Sche	me:			amination So					
Pract			2 Hrs/week	ISI		25				
Total	Credits		1	ES	E	25				
Prere	equisite :									
		s (CO):	:Students will be	ible to						
CO1				te the SAP S/4HANA environmen	and unders	tand the stru	cture of			
			ted organizational							
CO2										
	invoice ve	rificatio	on using SAP MM	transactions.						
CO3	Manage ar	nd custo	omize SAP MM m	aster data including material masters,	business part	ners, and info	records			
			zational structure							
CO4				ocurement features such as source dete	rmination, pu	irchasing cont	racts, ar			
	optimizati	on of pr	rocurement operat							
				Course Contents			CO			
Expe	riment 1			A GUI and Fiori Interface			CO <sub>1</sub>			
				NA and list the key navigation feature						
				h Fiori. Submit screenshots and descr	iptions of nav	rigation				
		paths								
Expe	riment 2			e Enterprise Structure in SAP MM		2 - 1 -	CO <sub>1</sub>			
			Identify and describe each organizational unit in procurement (Company Code, Plant, Purchasing Org, and Storage Location). Create a hierarchical chart and							
		evnla	in its role.	and Storage Location). Create a mera	renicai chart a	and				
Expe	riment 3	Simulate a Simple Procurement Cycle								
Lape	· ····································		Using SAP or simulation software, create a purchase order, post a goods receipt,							
		and enter an invoice. Document each step with screenshots and explanations.  Analyse Material and Business Partner Master Data								
Expe	riment 4									
			*	and vendor in the system. Explain		such as	CO3			
				y sector, account group, etc. Include						
Expe	riment 5			ent Processes: Stock vs Consuma		ts.	CO2			
Lape	· imene S		•	paring procurement workflows for		ials and	002			
Evno	riment 6			s, including implications on invento		bunning.	CO2,			
Expe	i illient o	Create Purchase Requisition with Source Determination Use source list/quota arrangements to auto-determine the vendor during PR								
				ion flow with screenshots.	dor daring r		CO4			
Expe	riment 7			eipt and Invoice Posting			CO2			
				using MIGO and invoice verification	using MIRO.	Explain				
		key f	ields and accounti	ng impact						
Expe	riment 8			ganizational Units in SAP MM						
		Confi	igure a company of	ode, plant, purchasing org, and assign	them in IMC	G. Submit	CO <sub>3</sub>			
E				ion notes and screenshots.						
Expe	riment 9	Extend Material Master for New Plant and Purchasing View								
		1 17		to extend an existing material ma		plant	CO <sub>3</sub>			
				pecific data. Highlight the differen	ces.					
Expe	riment 10			Records and Contracts			CO3,			
				o record and outline how it links to Polease PO against it.	creation. A	iso,	CO4			
Expe	riment 11			ze Source Determination			CO4			
LAPC	. micht 11			ource list and quota arrangement. Exp	olain how the	system	CO4			
				PR to PO conversion.	no // uic	- ) = 12111				
Expe	riment 12			Purchase Requisitions			CO2,			
		Crea	ite unassigned and	assigned PRs. Process them into POs			CO4			
				ME2N. Interpret outputs and explain t	heir importan	ice in	004			
		procu	rement tracking.							



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List of Submissio	n:	
1.	Minimum number of Experiments: 10	

PO/ CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	1		3		-		1	2	1	2
CO2	2	2	2	_	3	_`	_	_	1	2	2	2
CO3	2	2	3		3			_	1	2	2	2
CO4	2	3	3	1	3	_	_	_	2	2	3	3

1: Slight (Low)

2: Moderate (Medium)

3: Substantial (High)

### **Assessment Pattern:**

Skill Level (as per CAS Sheet)	Exp 1	Exp 2	Exp 3	Exp 4	Exp 5	Exp 6	Exp 7	Exp 8	Exp 9	Exp 10	Exp 11	Exp 12	Avg
Task I	15	15	15	15	15	15	15	15	15	15	15	15	
Task II	05	05	05	05	05	05	05	05	05	05	05	05	
Task III	05	05	05	05	05	05	05	05	05	05	05	05	
ISE	25	25	25	25	25	25	25	25	25	25	25	25	

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		Government College of Engineering, Karad		
		Second Year (Sem – IV) B. Tech. Civil Engineering		
		IOE3447: OE II- SAP HANA		
	ng Scheme	Examination Scheme		
Lectures				
Tutorials		ESE 50		
Total Cr	redits 02	P / 2000 /		
*	• • •	Duration of ESE   As a	pplicable	
Prerequ				
	Outcomes (CO):Stu			
CO1		ment reporting and analytical tools in SAP S/4HANA and custon	nize pure	chasing
		enhance procurement operations.		
CO <sub>2</sub>	Apply core inven	tory management processes such as goods receipts, goods issues, tr	ansfer po	ostings
	stock transfers, ar	nd physical inventory procedures.		
CO <sub>3</sub>	Customize invent	tory and supplier master data, movement types, and valuation settir	ngs for e	ffectiv
	inventory and pro	ocurement control.		
CO4	Perform and conf	figure invoice processing scenarios including taxes, delivery costs, e	valuated	receip
		GR/IR account maintenance.		
		Course Contents	CO	Hour
Unit 1	Reporting and An		CO1	(06)
		Apps, Using the Procurement Overview App	001	(00)
	Further Customiz	zing for Purchasing:		
		nt Types in Purchasing, Adjusting the Screen Layout of Purchasing		
		ng Account Assignment Categories, Controlling the Output of Messages		
		ng Condition Technique for Message Determination, Explaining the SAP		
	S/4 HANA Output			
Unit 2		nventory Management:	CO2	(06)
		y Management and Physical Inventory, Moving Goods with the MIGO		
	Transaction			
	Goods Receipts (C	GRs):		
		Receipt Without Reference, Posting a Goods Receipt with Reference,		
		Receipt with Automatic Generation of a Purchase Order, Posting		
		turn Deliveries, and Returns, Applying Order Price Unit in Inventory		
		lying Tolerances and the Delivery Completed Indicator, Setting Up Date		
		Receipt for Purchase Order		
		and Transfer Postings:		
Unit 3	Darforming Trong	0	CO2	(04)
Unit 3		fer Postings, Performing Stock Transfers Between Storage Locations,	CO2	(04)
Unit 3	Performing Stock	0	CO2	(04)
Unit 3	Performing Stock 'Reservations:	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants	CO2	(04)
	Performing Stock 'Reservations: Creating Manual R	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations		
Unit 3 Unit 4	Performing Stock 'Reservations: Creating Manual R Goods Issues (GIs	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations s):	CO2	
	Performing Stock 'Reservations: Creating Manual R Goods Issues (GIs Posting Unplanned	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations		
	Performing Stock 'Reservations: Creating Manual R Goods Issues (GIs Posting Unplanned Determination	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations s): I Goods Issues, Posting a Goods Issue with Reference, Configuring Stock		
	Performing Stock 'Reservations: Creating Manual R Goods Issues (GIs Posting Unplanned Determination Special Procurem	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations s): I Goods Issues, Posting a Goods Issue with Reference, Configuring Stock nent Processes:		
	Performing Stock 'Reservations: Creating Manual R Goods Issues (GIs Posting Unplanned Determination Special Procurem	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations s): d Goods Issues, Posting a Goods Issue with Reference, Configuring Stock tent Processes: Decess of Subcontracting, Performing the Process of Vendor Consignment,	CO2	(05)
Unit 4	Performing Stock 'Reservations: Creating Manual R Goods Issues (GIs Posting Unplanned Determination Special Procurem Performing the Pro	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations s): d Goods Issues, Posting a Goods Issue with Reference, Configuring Stock  nent Processes: Decess of Subcontracting, Performing the Process of Vendor Consignment, ry:		(04)
Unit 4	Performing Stock Reservations: Creating Manual R Goods Issues (GIs Posting Unplanned Determination Special Procurem Performing the Pro Physical Inventor Conducting Physic Analyses:	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations s): I Goods Issues, Posting a Goods Issue with Reference, Configuring Stock ment Processes: Decess of Subcontracting, Performing the Process of Vendor Consignment, ry: Cal Inventory, Simplifying Physical Inventory	CO2	(05)
Unit 4	Performing Stock Reservations: Creating Manual R Goods Issues (GIs Posting Unplanned Determination Special Procurem Performing the Pro Physical Inventor Conducting Physic Analyses:	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations s): d Goods Issues, Posting a Goods Issue with Reference, Configuring Stock  nent Processes: Decess of Subcontracting, Performing the Process of Vendor Consignment, ry:	CO2	(05)
Unit 4 Unit 5	Performing Stock of Reservations: Creating Manual Reservations: Goods Issues (GIst Posting Unplanned Determination Special Procurem Performing the Procurem Performing the Procurem Conducting Physical Inventor Conducting Physical Analyses: Applying Stock List Apps for Inventory	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations  s): I Goods Issues, Posting a Goods Issue with Reference, Configuring Stock  nent Processes: Decess of Subcontracting, Performing the Process of Vendor Consignment,  ry: Cal Inventory, Simplifying Physical Inventory  sts and Document Lists, Applying Periodic Processing, Using Analytical y Management	CO2	(05)
Unit 4	Performing Stock Reservations: Creating Manual R Goods Issues (GIs Posting Unplanned Determination Special Procurem Performing the Pro Physical Inventor Conducting Physic Analyses: Applying Stock Lie Apps for Inventory Further Customiz	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations  s): I Goods Issues, Posting a Goods Issue with Reference, Configuring Stock  nent Processes: Decess of Subcontracting, Performing the Process of Vendor Consignment,  ry: Deal Inventory, Simplifying Physical Inventory  sts and Document Lists, Applying Periodic Processing, Using Analytical of Management  zing for Inventory Management:	CO2	(05)
Unit 4 Unit 5	Performing Stock Reservations: Creating Manual R Goods Issues (GIs Posting Unplanned Determination Special Procurem Performing the Pro Physical Inventor Conducting Physic Analyses: Applying Stock Lie Apps for Inventory Further Customia Implementing Set	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations  8): 1 Goods Issues, Posting a Goods Issue with Reference, Configuring Stock  1 Gent Processes: 1 Cocess of Subcontracting, Performing the Process of Vendor Consignment,  1 Cocess of Subcontracting, Performing the Process of Vendor Consignment,  1 Cocess and Document Lists, Applying Periodic Processing, Using Analytical of Management  2 Ing for Inventory Management:  1 tings for Documents, Setting Up Movement Types, Applying Other	CO2	(05)
Unit 4 Unit 5	Performing Stock Reservations: Creating Manual R Goods Issues (GIs Posting Unplanned Determination Special Procurem Performing the Pro Physical Inventor Conducting Physic Analyses: Applying Stock Lie Apps for Inventory Further Customiz Implementing Settir Customizing Settir	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations  8): 1 Goods Issues, Posting a Goods Issue with Reference, Configuring Stock  1 Goods Issues, Posting a Goods Issue with Reference, Configuring Stock  1 Gent Processes: 1 Decess of Subcontracting, Performing the Process of Vendor Consignment,  1 Service and Inventory, Simplifying Physical Inventory  1 Sts and Document Lists, Applying Periodic Processing, Using Analytical of Management  2 Ing for Inventory Management:  1 tings for Documents, Setting Up Movement Types, Applying Other Ings.	CO2	(05)
Unit 4 Unit 5	Performing Stock Reservations: Creating Manual R Goods Issues (GIs Posting Unplanned Determination Special Procurem Performing the Procurem Performing the Procurem Conducting Physical Inventor Analyses: Applying Stock Lie Apps for Inventory Further Customiz Implementing Settin Customizing for Settin	fer Postings, Performing Stock Transfers Between Storage Locations, Transfers Between Plants  Reservations, Evaluating Reservations  8): 1 Goods Issues, Posting a Goods Issue with Reference, Configuring Stock  1 Gent Processes: 1 Cocess of Subcontracting, Performing the Process of Vendor Consignment,  1 Cocess of Subcontracting, Performing the Process of Vendor Consignment,  1 Cocess and Document Lists, Applying Periodic Processing, Using Analytical of Management  2 Ing for Inventory Management:  1 tings for Documents, Setting Up Movement Types, Applying Other	CO2	(04)



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		Working with Logistics Invoice Verification, Using Different Types of Invoice Verification, Parking of Documents, Applying Taxes, Applying Cash Discounts, Entering Invoices in Foreign Currencies, Creating Invoices for Purchase Orders with Account Assignment Subsequent Debit/Credit, Delivery Costs, and Credit Memos: Entering Subsequent Debits/Credits, Entering Delivery Costs, Entering Invoices Without Reference to a Purchase Order, Handling Credit Memos and Reversals, Evaluated Receipt Settlement (ERS), Performing Evaluated Receipt Settlement, GR/IR Account Maintenance, Performing GR/IR Account Maintenance		
Un	it 8	Customizing for Material Master Data: Setting Up Material Master Records, Creating Material Types, Setting Up Field Selection for Material Master Records, Defining Field References for Material Master Records Special Features of Material Valuation: Posting Goods Movements for Material Types UNBW and NLAG, Configuring Split Valuation	CO3	(5)
Tex	t Boo	oks		
1.		P MM Purchasing: Technical Reference and Learning Guide Author: P. K. Agrawal Purning, ISBN-9788120348516, Edition: 1st Edition	ublisher:	PHI
2.	100000000000000000000000000000000000000	terials Management with SAP S/4HANA Author: Jawad Akhtar Publisher: SAP Press, 31493225385, Edition: 3rd Edition	ISBN-	
3.		P MM: Functionality and Technical Configuration Author: Martin Murray Publish 3N-9781592291342, Edition: 1st Edition	ner: SAP	Press,
Ref	eren	ce Books		
1.		P Purchasing and Procurement with SAP MM: Business User Guide, Author: Matt Ostedo, Publisher: SAP Press, ISBN-9781493215171, Edition: 2nd Edition	Chudy ar	d Luis
Use	ful L			
1.	http	os://fioriappslibrary.hana.ondemand.com		
2.	http	os://www.sapnuts.com/tutorials/sap-migo.html		
3.		os://www.erpgreat.com/materials/stock-transfer-and-transfer-postings.htm		
		os://www.erpfunction.com/inventory-reports-in-sap-mm/		

PO →	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO	PO	PO
CO↓										10	11	12
CO 1	2	2	3	1	3	-	_	_	1	2	2	2
CO 2	2	2	3	_	3	_	_	_	1	2	2	2
CO 3	2	2	3	_	3	_	_	_	1	2	2	2
CO 4	2	2	3	1	3		_	1	1	2	2	2



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	e di control.  E di coltre l'agoli de l'inchesce de l'actes au d'entiring vint e di mont d'Al degravait Prince de l'agoli
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# Assessment Pattern (with revised Bloom's Taxonomy)

Knowledge Level	ISE	ESE
Remember	8	8
Understand	8	8
Apply	8	8
Analyse	8	8
Evaluate	8	8
Create	10	10
TOTAL	50	50

BOS Chairman

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X

# Assessment Pattern (with revised Bloom's Taxonomy)

Knowledge Level	ISE	ESE
Remember	8	8
Understand .	8	8
Apply	8	8
Analyse	8	8
Evaluate	8	8
Create	10	10
TOTAL	50	50

BOS Chairman

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		of Engineering, Karad  B. Tech. Civil Engineering
		II- SAP PEOJECT
Teaching Sch		Examination Scheme
Lectures	02 Hrs/week	ISE 50
Tutorials	00 Hrs/week	ESE 50
Total Credits	02	
	•	Duration of ESE As applicable
Prerequisite		
Course Outc	omes (CO):Students will be able to	
CO1 Per	form detail literature survey on the research	opic of work.
CO2 Car	ry out detailed mathematical modelling or e	perimental validation.
CO3 Dra	w inferences from the findings and present	onclusion.
CO4 De	velop presentation and technical report writi	g skills.
	Course	Contents CO
sha	Il consists of minimum THREE and maximature survey, formulate the problem, propo  Students will prepare a technical report  The assessment of the project will be consisting of three faculty members from	terest for Project work using SAP. Project group and FIVE students. The group is required to do be and execute methodology required for project in prescribed format based on their work. done at the end of the semester by a committee on the department along with Project Guide. Ork before the committee. The presentation of the live voce.

PO → CO↓	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
CO 1	2	3	2	2	2	1	1	-	2	-	3
CO 2	3	3	3	3	3	1	1		2	1	3
CO 3	2	3	2	3	2	1	1	-	3	-	3
CO 4	1	1	1		1		_	- 2	3	1	3







### Assessment Pattern (with revised Bloom's Taxonomy)

Knowledge Level	ISE	ESE
Remember	9	9
Understand	9	9
Apply	9	9
Analyse	9	9
Evaluate	9	9
Create	5	5
TOTAL	50	50

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BOS Chairman
Dept. of Electronics and Telecommunication

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