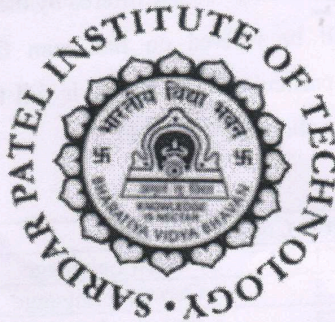


Bharatiya Vidya Bhavan's  
**Sardar Patel Institute of Technology**  
(Autonomous Institute Affiliated to University of Mumbai)

Revision: SPIT-3-19



**Bachelor of Technology (B.Tech)**

**Mandatory Elective Courses**

**Third Year Engineering**  
**(Sem. V and Sem. VI)**

**Effective from Academic Year 2019 -20**

Board of Studies Approval: 06/12/2018

Academic Council Approval: 16/01/2019

Principal

Sardar Patel Institute of Technology  
Bhavans Andheri Campus  
Munshi Nagar, Andheri (West),  
Mumbai - 400 058.





# Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India  
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## **Mandatory Elective Courses (MEC):**

- At least one Business Language course from MEC1 to MEC4 is compulsory
- One course from MEC 5 or 6 is compulsory.
- Student must verify the MEC course offered by the department in a particular semester
- These courses will be offered on first cum first serve basis to the students. Once registrations for a particular MEC course is full then students will have to take available course only (may be allotted by college).

S.N.	Course Code	Course
1	MEC1	French Language
2	MEC2	German Language
3	MEC3	Japanese Language
4	MEC4	Chinese-Mandarin Language
5	MEC5	Industrial and Organizational Psychology
6	MEC6	Law for Engineers



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
MEC1	French Language	2	-	-	2	-	-	2
		Examination Scheme						
		ISE1		ISE2		Attendance		Total Marks
		20		20		10		50

Pre-requisite Course Codes		---
Course Outcomes	CO1 Self introduction	Student will be able to Introduce themselves in a meeting and converse with people from different countries. Speak about themselves, their professions, their family, family names, first names, nationalities, ages. Have a discussion on the whereabouts and identities of people they interact with such as their nationalities, the countries they come from, the languages they speak Greet people and take leave
	CO2 General Topics	Student will be able to Count numbers from 0 to 69 To know how to talk about dates, seasons, time of the day, days of the week and months of the year. Know how to describe a noun using qualitative adjectives. ask price of something
	CO3 Dialogue with professor or any other interlocutor	Student will be able to Communicate in class and understand instructions such as :repeat/answer/listen/look/tick the rightanswer/write/underline/close/how is it pronounced/how is it written/how does one say/work in groups/I don't know/I do not understandrequest for directions using interrogatives like where/who speaks/to whom/whyshare /to give personal information: telephone numbers/ date of birth/ postal address/filling out documents and ability to comprehend the details on important identity papers such as passports or registration forms.
	CO4 Exposure to French Culture Life and Social Norms.	Student will be able to get from the Airport in France to his destination in city. To understand directions. To move around the city understanding road signs, maps. Will be acquainted with French Culture and hence understand their behaviour and communicate appropriately with them.



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Module No	Unit No	Topics	Ref	Hrs
1.	1.1	Alphabet		15mins
	1.2	Accents		30 mins
	1.3	Greetings: Good morning/ good afternoon/ good evening/ good night		15 mins
	1.4	Verb conjugation Être” (To be)		30 mins
	1.5	Gender : Masculine Feminine		30 mins
2.	2.1	Articles: Definite article:le / la / l’/ les Indefinite article :un/une/des Articles: Definite article:le / la / les		60 mins
	2.1	List of some Masculine and Feminine Nouns		30 mins
	2.2	List of Qualitative Adjectives (Describing big/small/adventurous/timid/pessimist/optimist )		30 mins
3.	3.1	Adjectives of colour and the rules: de quellecouleur?		60 mins
	3.2	Agreement of Number and Gender of the qualifying adjective with the noun		60mins
4.	4.1	3 groups of verbs depending on how they end. Conjugation of Regular “ER”		45 mins
	4.2	List of: commonly used “ER” and “ER” verbs used for student teacher communication.		15 mins
	4.3	Conjugation of “ALLER” which is an Irregular “ER” verb.		60mins
5.	5.1	Conjugation of Reflexive ER verb S’APPELER’		60 mins
	5.2	Conjugation of GER / CER verbs that are tricky		60 mins
6.	6.1	Frequently used expressions (thank you/glad to meet you/ sorry/please)		30 mins
	6.2	Singular and Plural		90 mins
7.	7.1	Nationalities		30 mins
	7.2	Languages		30 mins
	7.3	Days of the week		30 mins
	7.4	Months of the year		30 mins
8.	8.1	Forms of Membership/Admission/Candidature/registration “Formularized inscription” Hotel Reservation		60 mins
	8.2	Dialogue development from arriving at the Airport to getting to your destination by Metro/RER/Taxi/Bus Directions to move around the city / Metro Maps / Reaching Hotel or Youth Hostel		60 mins



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9.	9.1	Theory for the 10 marks Project work. Paris, the capital of 1.Topography/Geography 2.History 3.Transport 4.Political and Financial / 5.Gastronomy 6. Current Affairs 7.Culture –Fashion/Literature/Art/Theatre/Films 8. Trade and Service Industries 9. Tourism and Monuments10. Ecological concerns	120 mins
10.	10.1	Professions	30 mins
	10.2	Family relations	30 mins
	10.3	Number counting: 0 to 69 Cardinal numbers Question: Combien de	60 mins
11	11.1	Possessive adjective: Mon/Ma/Mes Ton/Ta/Tes Son/Sa/Ses Notre/Notre/Nos Votre/Votre/Vos Leur/Leur/Leurs	120 mins
12.	12.1	Verb conjugation “AVOIR” to haveUsed to express age	120 mins
13.	13.1	Verb Conjugation of “FAIRE – to make / to do / to describe weather conditions Comment fait-ilaujourd'hui? Quel temps fait-il? Il fait beau / Il fait chaud / Il fait froid / Il fait frais / Il fait du vent	60 mins
	13.2	Seasons: L'été /L'hiver / L'automne /Le printemps	60 mins
14.	14.1	Weather Comment fait-ilaujourd'hui? Quel temps fait-il? Il fait beau / Il fait chaud / Il fait froid / Il fait frais / Il fait du vent	60 mins
	14.2	Ordinal Numbers	60 mins
<b>Total</b>			<b>28 hours</b>

## References:

1. ALTER EGO – Méthode de Français A1 (PUBLICATION: HACHETTE FRANÇAIS LANGUE ÉTRANGÈRE)
2. Annie Berthet / Catherine Hugot / Véronique M. Kizirian / Beatrix Sampsonis / Monique Waendendries
3. NOUVEAU TAXI: Méthode de Français - HACHETTE
4. GRAMMAIRE PROGRESSIVE DU FRANCAIS – NiveauDébutant- MaïaGrégoire – CLE International
5. OUI, JE PARLE FRANCAIS – 1 Méthode de Français MANAK BOOKS Prochy Master
6. A Revision French Grammar and Composition Book – BLACKBURN AND MORRIS
7. BLACKIE & SON PUBLISHERS PVT. LTD.
8. G. MAUGER – COURS DE LA LANGUE ET DE CIVILISATION FRANÇAISES



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
MEC2	German Language	2	-	-	2	-	-	2
		Examination Scheme						
		ISE1		ISE2		Attendance		Total Marks
		20		20		10		50

### Learning Objectives:

Students should be able to interact with international business associates in a foreign language at a base level

**Learning Outcomes:** Students will be able to read and speak in the language

### Assurance of Learning Goals:

Communication skills – High

Global perspective – Medium

Sessions No's	Particulars of Syllabus
1	Germany an Overview, cultural etiquettes, business culture greetings and useful phrases.
2	Revision of Greetings & Self Introduction, Numbers, Rules of pronunciation, Numbers, Alphabet
3	Professions, Personal pronouns (singular/ Plural), -en ending verbs( Lernen, Kommen, Arbeiten, Heißen).Introducingtheotherperson
4	Ordinal Numbers Vocabulary – Days of the week and Months of the year, Countries, Nationalities and languages, more about Hobbies and Professions
5	More verbs (Strong) and conjugations, colours, usage of “germ” to indicate likes and dislikes
6	Revision Ordinal numbers, Concept of Time, Seasons, expressions related to time
7	All pronouns with their corresponding possessive articles, Additional time phrases, sentence structure
8	Vocabulary related to food items fruits and vegetables and shopping in the supermarket, cutlery, Crockery, Test 1
9	Situations: At the registration Counter, At the restaurant – ordering food/ paying the bill, in the canteen making new acquaintances.
10	Vocabulary: Parts of the body, clothing, Basic introduction of the concept of Nominative and Accusative
11	Expressing ache and pains, vacation and travel related vocabulary and directions. Accusative Case governing verbs and the corresponding change in articles and pronouns
12	Accusative prepositions and exercises Vocabulary related to Office, Stationary items
13	Test 2 and Basic introduction of Modals, dialogue exercise.
14	Revision and dialogue exercise
15	Revision and Practice



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
MEC3	Japanese Language	2	-	-	2	-	-	2
		Examination Scheme						
		ISE1		ISE2		Attendance		Total Marks
		20		20		10		50

### Learning Objectives:

Students should be able to interact with international business associates in a foreign language at a base level

**Learning Outcomes:** Students will be able to read and speak in the language

### Assurance of Learning Goals:

Communication skills – High

Global perspective – Medium

Sessions No's	Particulars of Syllabus
1	Introduction to Japanese language & culture, greetings, self-introduction in Japanese language, audio-visual( greetings), Script Hiragana, Katakana, Kanji
2	Kore, sore Concept, chapter1 of Text book, role play
3	Kono, sono concept, vocabulary, numbers, dialog practise
4	Koko, soko concept, conversation, roleplay
5	Adjectives by audio-visual, days of the week, summary of the above 3 concepts, sentences for oral translations
6	Chapters from book, exercises, conversational dialogs
7	Roleplays of the related situations using the learnt vocabulary, adjectives
8	Introduction to verbs by audio-visual method, practical application of verbs by dialog method
9	Chapters from the book, exercises, revision
10	Detailed explanation of particles usage, roleplay in various day-to-day situations, kara-made concept
11	Concept of arimas, imasu, chapter, revision
12	Introduction to Essay writing, comprehension, picture-reading
13	Text book chapters, exercises, dialog practise
14	Expressing likes, preferences, by usage of suki-kirai, hoshii etc
15	Introduction to Tai form, negations

### Reference Text:

1. Minna no nihongo
2. Nihongo shoho



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
MEC4	Chinese-Mandarin Language	2	-	-	2	-	-	2
		Examination Scheme						
		ISE1		ISE2		Attendance		Total Marks
		20		20		10		50

### Learning Objectives:

Students should be able to interact with international business associates in a foreign language at a base level

**Learning Outcomes:** Students will be able to read and speak in the language

### Assurance of Learning Goals:

Communication skills – High

Global perspective – Medium

Sessions No's	Particulars of Syllabus
1	Orientation, Introduction to Hanyu Pinyin, Phonetic alphabet
2	History of Mandarin, Putonghua, Reading pinyin text, tones
3	Daily used Phrases, Greetings Acquaintance, Asking questions
4	Numerical and telling date, month year. Introducing oneself
5	Revision of Initials, Finals, Syllables in pinyin, Phonetic Explanation
6	Sentence making, simple Grammatical Exercises, using interrogatives.
7	Vocabulary, classroom, Public Places. Buying Things
8	Country, Nationality, Studying Subjects, Work
9	Making comments, Making Appointments.
10	Asking For Directions, Looking for someone.
11	Review. Text book lessons 1-6, Making Dialogues
12	Telling time. Currency, Exchange, money
13	Phonetics Revision. Dictation, Using Phrases in sentences
14	Talking about family. Making situational dialogues on given topics. Review of portion, vocabulary, location and position words
15	Revising functional Grammar, Picture comprehension, Reading and Paraphrasing.

### Reference Text:

1. Great Wall Chinese.
2. New Practical Chinese Reader
3. Workbook Prescribed for H S K Testing By
4. Beijing Language and Cultural University.
5. Conversational Chinese –By Zhang Feng.





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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
MEC5	Industrial and Organizational Psychology	2	-	-	2	-	-	2
		Examination Scheme						
		ISE1		ISE2		Attendance		Total Marks
		20		20		10		50

Pre-requisite Course Codes		---
Course Objectives	CO1	To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology
	CO2	To create awareness about the role and importance of Psychological factors and processes in the world of work
	CO3	To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behavior

Module No.	Unit No.	Topics	Ref.	Hrs.
1		<b>Theories of Employee Motivation</b>	1, 2	05
	1.1	What is motivation? Work motivation theories, need theories		
	1.2	Other Theories - Reinforcement theory, expectancy theory and self-efficacy theory; Justice theories, goal-setting theory, control theory and action theory		
2		<b>Feelings about Work: Job Attitudes and Emotions</b>	1,2	07
	2.1	The nature of job satisfaction; how people feel about their jobs; the assessment and antecedents of job satisfaction		
	2.2	Potential effects of job satisfaction; organizational commitment and emotions at work		
3.		<b>Productive and Counterproductive Work Behavior</b>	1,2	05
	3.1	Productive work behavior: ability, motivation, personal characteristics and task performance; environmental conditions and task performance; organizational constraints; organizational citizenship behavior (OCB)		
	3.2	Counterproductive work behavior: withdrawal – absence, lateness, turnover; aggression, sabotage, and theft; labor unrest and strikes.		
4.		<b>Leadership and Power in Organizations</b>	1,2	06
	4.1	What is leadership? Sources of influence and power; abuse of supervisory power: sexual and ethnic harassment		
	4.2	Approaches to the understanding of leadership; women in leadership positions; cross-cultural issues in leadership		
5.		<b>Organizational Development and Theory</b>	1,2	05
	5.1	Organizational Development		
	5.2	Organizational Theories		
<b>Total</b>				<b>28</b>



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## **Books Recommended:**

1. Spector, P. E. (2012). Industrial and Organizational Psychology: Research and Practice. Singapore: John Wiley & Sons Pte. Ltd. (Indian reprint 2015)
2. Schultz, D., & Schultz, S. E. (2010). Psychology and Work Today.( 10<sup>th</sup> ed.). Pearson Prentice Hall



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
MEC6	Law for Engineers	2	-	-	2	-	-	2
		Examination Scheme						
		ISE1		ISE2		Attendance		Total Marks
		20		20		10		50

Pre-requisite Course Codes		---
Course Outcomes	CO1	Student will be able to recognize the importance of the legal system, and the controls it exerts on the activities of engineers in practice.
	CO2	Student will be able to express the details of what the individual's responsibilities are to ensure legal behaviour in engineering practice.

This course is a survey of legal topics relevant to engineers, including basic of legal system, labor law, intellectual property, torts, and contracts. This is an introductory course, emphasizes on legal principles that can provide engineers with the ability to recognize legal issues that are likely to arise in the engineering profession.

Module No.	Unit No.	Topics	Ref.	Hrs.
1	1.1	General Principles of Contract under Indian Contract Act, 1872.	1	4
	1.2	<b>Introduction to Human Rights.</b> Enforcement of Human Rights in India including Supreme Court, High Courts, Statutory Commissions– NHRC, NCW, NCM, NC-SC/ST etc.	1	
2	2.1	<b>Right to Information Act, 2005:</b> Evolution and concept; Practice and procedures; Official Secret Act, 1923; Indian Evidence Act, 1872.	1	4
	2.2	<b>Information Technology</b> – legislation and procedures, Cyber crimes – issues and investigations.	1	
3	3.1	<b>Labor Laws:</b> Industrial Disputes Act, 1947; Collective bargaining; Industrial Employment (Standing Orders) Act, 1946; Workmens Compensation Act, 1923.	1	12
	3.2	Apprentices Act, 1961. Bonded Labor System (Abolition) Act, 1976. Child Labor (Prohibition and Regulation) Act, 1986. Contract Labor (Regulation and Abolition) Act, 1970.	2,3	
	3.3	Employees' Provident Funds and [Miscellaneous Provisions] Act, 1952. Employees' State Insurance Act, 1948. Equal Remuneration Act, 1976.	2,3	



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		Factories Act, 1948. Fatal Accidents Act, 1855. Industries (Development and Regulation) Act, 1951. Maternity Benefit Act, 1961. Minimum Wages Act, 1948. Payment of Bonus Act, 1965. Payment of Gratuity Act, 1972. Payment of Wages Act, 1936. Trade Unions Act, 1926.		
4	4.1	Law relating to Intellectual property Law relating to Copyright in India. Law relating to Trademarks under Trademark Act, 1999. Law relating to Patents under Patents Act, 1970.	1	4
5	5.1	<b>Corporate Law:</b> Meaning of corporation; Law relating to companies, public and private (Companies Act, 1956) general provisions; Law and multinational companies – International norms for control, FEMA 1999, Corporate liability, civil and criminal. Election provisions under Indian Constitution (Art.324–329): Representation of Peoples Act and Prevention of Corruption Act, 1988;	1	4
			<b>Total</b>	<b>28</b>

## Books Recommended:

- [1] Nikita Agarawal and Rishi Kumar, "Laws for Engineers," Genius Publications.
- [2] P. L. Malik Handbook of Labour and Industrial Law, Eastern Book Company
- [3] Industrial labour and general laws, The Institute of Company Secretaries of India