## <u>Detailed Syllabus</u> Lab-wise Breakup

Course Code	18B15GE111	Semester : Odd (specify Odd/Even)		Semester: I; Session 2021-2022  Month from: September - December	
Course Name	Engineering Drawing and Design				
Credits	1.5	Contact I		Hours	3

Faculty (Names)	Coordinator(s)	Mr. Chandan Kumar, Mr. Deepak Kumar
	` /	Mrs. Madhu Jhariya, Mr. Nitesh Kumar, Dr. Prabhakar Jha, Mr. Rahul Kumar, Mr. Vimal Saini

COURSE	OUTCOMES	COGNITIVE LEVELS
C178.1	Recall the use of different instruments used in Engineering Drawing and Importance of BIS and ISO codes.	Remembering Level (C1)
C178.2	Illustrate various types of mathematical curves and scale.	Understanding Level (C2)
C178.3	Classify different types of projection and Construct Orthographic projection of Point, Line, Plane and Solid.	Applying Level (C3)
C178.4	Construct Isometric Projection and Conversion of Orthographic view to Isometric view and vice-versa.	Applying Level (C3)
C178.5	Construct Engineering model in Drawing software (AutoCAD) and Compare it with conventional drawing.	Analyzing Level (C4)

Module No.	Title of the Module	List of Experiments	СО
1.	Introduction to Engineering Drawing	<ul> <li>Principles of engineering graphics and their significance, usage of drawing instruments.</li> <li>Technical vertical capital letters which includes English alphabets and numeric.</li> </ul>	C178.1
2.	Engineering Curves	Constructing a pentagon and hexagon; engineering curves:     Parabola, Ellipse, Hyperbola, Cycloids and Involutes.	C178.2
3.	Orthographic Projections	<ul> <li>Projection of points: Point on VP, HP, in space.</li> <li>Projection of straight lines: Lines inclined or parallel to any one of the planes; lines inclined to both HP and VP with traces.</li> <li>Projection of planes: Plane on VP, HP, inclined to any one of the planes; plane inclined to both HP and VP.</li> </ul>	C178.3
4.	Projections of Regular Solids	Projections of solids in simple position inclined to one/both the planes.	C178.3
5.	Sections and Sectional Views of Right Angular Solids	Sections of solids: Section of standard solids and true shape section of standard machine elements for the section planes perpendicular to one plane and parallel or inclined to other plane.	C178.3

6.	Isometric Projections	Principles of Isometric projection – Isometric Scale, Isometric Views, Conventions; Isometric Views of Planes, Simple and compound Solids; Conversion of Isometric Views to Orthographic Views and Vice-versa.	C178.4	
7.	Overview of Computer Graphics	Demonstrating knowledge of the theory of CAD software; Dialog boxes and windows; Shortcut menus; the Command Line; the Status Bar; Isometric Views of lines, Planes, Simple and compound Solids.	C178.5	
8.	Customization & CAD Drawing	CAD Drawing along with customization tools, Annotations, layering & other functions. Orthographic Projections; Model Viewing; Co-ordinate Systems; Multi-view Projection; Surface Modeling; Solid Modeling.	C178.5	
9.	Demonstration of a simple team design project	Technical 2D/3D orthographic and Isometric projections;     Demonstration of a simple team design project.	C178.5	
Evaluati	on CriteriaComponen	ts Maximum Marks		
Mid Viva		20		
End Viva		20		
TA		60		
Total		100		

**Project based learning**: Auto-CAD is a computer-aided software used for creating 2D/3D models of different machine & structures along with all their components to visualize and analyze the feasibility of the same well before the actual manufacturing/construction. The laboratory mainly focused on engaging the students by replicating 2D and 3D models of common engineering equipment and instrumentation diagrams that enhances student's perception of their graphic expression skills.

	<b>Recommended Reading material:</b> Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books, Reference Books, Journals, Reports, Websites etc. in the IEEE format)			
1.	1. Bhatt N.D., Panchal V.M. & Ingle P.R., Engineering Drawing, Charotar Publishing House, 2014.			
2.	Shah, M.B. & Rana B.C., Engineering Drawing and Computer Graphics, Pearson Education, 2008.			
3.	3. George Omura, Mastering AutoCAD 2021 and AutoCAD LT 2021, Sybex, 2020.			
4.	Alan J. Kalameja, AutoCAD 2010 Tutor for Engineering Graphics, Autodesk Press, 2009.			

## <u>Detailed Syllabus</u> Lecture-wise Breakup

Course Code	15B11CI111	Semester ODD		Semester I Session-2021-22	
		(specify Odd/I	Even)	Month i	from: August-21 to Dec-21
Course Name	Software Developme	tware Development Fundamentals – I			
Credits	4	Contact H		Hours	3-1-0

Faculty (Names)	Coordinator(s)	Dr. Ankita Verma(J62), Mr. Prantik Biswas (J62), Ms. Akanksha Mehndiratta(J128), , Dr. Himani Bansal(J128)
	Teacher(s)	J62: Dr. Amanpreet Kaur, Dr. Amarjeet, Dr. Ankita Verma, Dr.
	(Alphabetically)	Archana Purwar, Dr. Arpita Jadhav Bhatt, Dr. Jyoti, Ms. Mradula
		Sharma, Dr. Niyati Aggarwal, Mr. Prantik Biswas, Ms. Purtee Kohli,
		Dr. Shardha Porwal, Ms. Somya Jain
		J128: Dr. Chetna Gupta, Nitin Shukla, Dr. Himanshu Mittal, Dr. Shilpa
		Budhkar, Surendra Kumar, Ashish Kumar

COURS	SE OUTCOMES	COGNITIVE LEVELS
C109.1	Explain various phases of software development life cycle and	Understanding level (C2)
C109.2	Explain various data types, memory allocation schemes. precedence of arithmetical and logical operations, and need of array, and structures	Understanding level (C2)
C109.3	Design the flow chart and write the high level code for different problems	Understanding level (C2)
C109.4	Apply and implement functions with or without pointers for different Problems	Applying level (C3)
C109.5	Demonstrate and implement various operations like traverse, insertion, deletion, <i>etc</i> . on files	Applying level (C3)

Module No.	Subtitle of the Module	Topics in the Module	No. of Lectures for the module
1.	Introduction	Introduction to Software Development Life Cycle, Step by step solution to simple problems, developing logic/flow-chart/pseudo code to solve problems like 2D screen saver, simple/logical games, puzzles	9
2.	Data types, operators, and Control Flow	Data, variables and constants, data types, operators – binary, uniary, ternary, operator precedence, operations using different operators, if, if-else, while, do-while, for, switch-case in C Programming	9
3.	Array	Fundamentals of Array, Implementation of 1D/2D Array and related operations like insertion, traversal, updation, etc. in C programming using different problems	6
4.	Functions	Introduction to Functions and its implementation in C programming language, Functions using Pass by value, recursive functions	4
5.	Structures and Union	Introduction and implementation of Structures and Union in C programming, Array of Structures and related operations like insertion, traversal, updation, etc. in C programming using different problems, Structures using function	4
6.	Pointers	Pointers in C, Dynamic memory allocation for 1D/2D array and structures, Arithmetical operations on pointers, functions using pass by reference	6

7.	File Handling	Introduction to File, creation of files in C programming	4	
		language, Modes of File Handling like read, write, update;		
		different types of files like binary file and text file and		
		respective operations like, opening, closing, reading, writing,		
		end of file,		
		traversing the file, for structured and unstructured data		
		Total number of Lectures	42	
Evalu	ation Criteria			
Comp	onents	Maximum Marks		
T1		20		
T2		20		
End S	emester Examination	35		
TA		25 (Attendance = 10, Class Test, Quizzes, etc = 05, Internal		
		assessment = $05$ , Assignments in PBL mode = $05$ )		
Total		100		
		rial: Author(s), Title, Edition, Publisher, Year of Publication etc. (	Text books,	
Referer	nce Books, Journals, Rep	ports, Websites etc)		
Text B	ooks			
1	Ashok N. Kamthane, '	'Programming with ANSI and Turbo C", Pearson Education, Delhi	, 2003	
2	Griffiths, David, and D	awn Griffiths, "Head First C: A Brain-Friendly Guide", O'Reilly N	Media, Inc.,	
	2012.	·		
3	H. Cooper and H. Mull	ish, Jaico Publishing House. "Spirit of C", 4th Edition, Jaico Publishing House."	shing House,	
	2006		_	
4	Greg Perry, Dean Miller, "C Programming Absolute Beginner's Guide Paperback", QUE; 3 edition, 2013			
Refere	nce Books			
1	Herbert Schildt. "The Complete Reference C", 4th Edition, TMH, 200			
2	Brian W. Kernighan an	d Dennis M. Ritchie, "The C Programming Language", 2nd Editio	n, Prentice-Hall	
	India, New Delhi, 2002			
3		Gilberg "Computer Science: A Structured Programming Approach"	Using C", 2nd	
	Edition, Thomson Pres	s, New Delhi, 2006		

# **Detailed Syllabus**

# Lab-wise Breakup

Course Code	15B17CI171	Semester ODD	Semester: 1st Session: 2021 -2022 Month from: Sep –Dec	
Course Name	Software Development Fundamentals Lab-1			
Credits	1	<b>Contact Hours</b>	4	

Faculty (Names)	Coordinator(s)	Mradula Sharma & Apeksha Aggarwal (J62), Himanshu Mittal & Swati Gupta (J128)
	Teacher(s) (Alphabetically)	Amanpreet Kaur (APR), Amarjeet (AJP), Anita Sahoo (ASA), Ankita Verma (AV), Apeksha (APA), Archana Purwar (ARP), Arpita Jadhav Bhatt (APJ), Naveen Kr Gupta (NKG), Bharat Gupta (BG), Hema N (HN), K.Rajalakshmi (KRL), Kavita Pandey (KP), Megha Rathi (MGR), Mradula Sharma (MSH), Neetu Sardana (NSA), Niyati Aggrawal (NIY), Potukuchi Raghu Vamsi (PRV), Purtee Kohli (PRK), Sakshi Agarwal (SAA), Shulabh (SHB), Suma Dawn (SUD), Vikas Hassija (VH), Nistha (NIS), Pratishtha (PRT), Jaspal Kaur (JP) J128:  Akanksha Bhardwaj, Arti Jain, Bansidhar Joshi, Himani Bansal, Mukesh Saraswat, Mukta Goyal, Nitin Shukla, Payal Khurana BAtra, Pulkit Mehndiratta, Raju Pal, Rashmi Kushwa, Shariq Murtuza, Shilpa Budhkar, Swati Gupta, Varsha Garg, Surendra Kumar

COLIDS	SE OUTCOMES	COGNITIVE
COURS	DE OUTCOMES	LEVELS
C172.1	Develop programs/logic for data types, expressions and conditional structure.	Applying Level (C3)
C172.2	Perform programs for array and functions.	Applying Level (C3)
C172.3	Implement programs for structure and union.	Applying Level (C3)

C172.4	Perform programs of pointers and recursive functions.						Applying Level (C3)		
C172.5	Implement menu driven programs to perform basic file							Applying Level (C3)	
	operations.								

Module No.	Title of the Module	Topics in the Module	No. of Weeks (2 Labs/Week)
1	Logic Building, Puzzles	Developing logic/flow-chart/pseudo code to solve problems, simple/logical games, puzzles	2 Weeks
2	Data Type, Statements, Expressions, Operators	Data, variables and constants, data types, operators – binary, unary, ternary, operator precedence, associativity	1 Week
3	Control Flow	Develop C programs using conditional structure (if, if-else, nested if), and iterative control structure (do-while, while, for).  Implement switch case statement.	2 Weeks
4	Array and String	Array initialization, reading and writing operations with array, one dimensional, two-dimensional array, strings, and related operations like addition, multiplication, traversal, transpose etc.	2 Weeks
5	Functions	User defined functions and inbuilt functions, Functions definition, declaration, calling, Pass by value, functions with array	1 Week
6	Structures and Union	Struct keyword, Structure and Union, Structure variable, dot operator, arrow operator, Array of Structures, structure using functions.	2 Weeks
7	Pointers	Pointers in C, Dynamic memory allocation for 1D/2D array and structures, Arithmetical operations on pointers, functions using pass by reference, recursive functions like palindrome, factorial, fibonacci series, number system etc	2 Weeks
8	File Handling	File creation, Modes of File Handling like read, write, update; different types of files like binary file and text file and respective operations like, opening, closing, reading, writing, end of file, traversing the file for structured and unstructured data	2 Week

<b>Total Number of Labs</b>		14 Weeks
Evaluation Criteria		
Components	Maximum Marks	
Lab Test -1	20	
Lab Test -2	20	
Day to Day	60	
Evaluation 1	15	
Evaluation 2	15	
Mini Project	15	
Attendance	15	
Total	100	

Project based learning: Each student in a group of 3-4 will develop a mini project with the help of various concepts of software development fundamental. In a team they will learn how to apply the concepts for problem solving in a meaningful way.

**Recommended Reading material:** Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books, Reference Books, Journals, Reports, Websites etc. in the IEEE format)

- H. Cooper and H. Mullish, Jaico Publishing House. "Spirit of C", 4<sup>th</sup> Edition, Jaico Publishing House, 2006
- 2 Herbert Schildt. "The Complete Reference C", 4th Edition, TMH, 2000
- Brian W. Kernighan and Dennis M. Ritchie, "The C Programming Language", 2<sup>nd</sup> Edition, Prentice-Hall India, New Delhi, 2002
- 4 Peter Norton, "Introduction to Computers", 5<sup>th</sup> edition, Tata McGraw-Hill, Delhi., 2005.
- 5 Balaguruswamy, Programming in ANCI C", 2<sup>nd</sup> Edition, TMH, 2001.
- 6 Ashok N. Kamthane, "Programming with ANSI and Turbo C", Pearson Education, Delhi, 2003
- **7** Rajaraman V., "Fundamentals of Computer", 3<sup>rd</sup> Edition, Prentice-Hall India, New Delhi, 2005.
- B. A. Forouzan, R. F. Gilberg "Computer Science: A Structured Programming Approach Using C", 2<sup>nd</sup> Edition, Thomson Press, New Delhi, 2006.

## <u>Detailed Syllabus</u> Lecture-wise Breakup

Course Code	15B11PH111	Semester: ODD Semester: 1st, Session: 20		,	
Course Name	PHYSICS-1	Month from: July 21 to December 21			rom: July 21 to December 21
Credits	4	Contact H		Hours	4

Faculty (Names)	Coordinator(s)	Dr Amit Verma and Dr Dinesh Tripathi
	Teacher(s) (Alphabetically)	Alok Pratap Singh Chauhan, Anirban Pathak, Anuj Kumar, AnurajPanwar, AnshuD. Varshney, Ashish Bhatnagar, D.K.Rai, ManojTripathi, Navendu Goswami, Navneet K Sharma, Prashant Chauhan, Papia Chowdhury, R.K. Dwivedi.S. C. Katyal, S.P.Purohit, Suneet K Awasthi, Vikas Malik.

COURSE	COURSE OUTCOMES		
C101.1	Recall the basic principles of physics related to optics, relativity, quantum mechanics, atomic physics.	Remembering (C1)	
C101.2	Illustrate the various physical phenomena with interpretation based on the mathematical expressions involved.	Understanding (C2)	
C101.3	Applytheconcepts/principlestosolvetheproblemsrelatedtowavenature of light, relativity, quantum mechanics and atomic physics.	Applying (C3)	
C101.4	Analyze and examine the solution of the problems using physical and mathematical concepts involved.	Analyzing (C4)	

Module No.	Title of the Module	Topics in the Module	No. of Lectures for the module		
1.	Physical Optics	Analytical treatment of interference, Intensity distribution of fringe system, Fresnel's Bi-prism, Newton's rings, Michelsoninterferometer, Diffraction (limitedto Fraunhofer class) from Single slit, double slit and Diffraction grating, Polarization, Phenomenological understanding of Birefringence, Principles of use of uni-axial crystals in practical polarizers, compensators and wave plates, Production and analysis of completely polarized light. Retardation Plate, Optical activity, Polarimeter. Resolving Power of Microscope.	17		
2.	Relativity	Frame of references, Galilean Transformations, Michelson- Morley experiment, Lorentz transformations, Addition of velocities, Mass variation with velocity, Mass-energy relation.	5		
3.	Atomic Structure	Origin of spectral lines, spin and orbital angular momentum, Quantum numbers, Designation of States, Atoms in magnetic field, Zeeman effect.	4		
4.	Radiation	Black body radiation, Wein's law, Rayleigh Jeans law,			
5.	Quantum Mechanics	Wave-particle duality, Compton scattering, Matter waves, Heisenberg's uncertainty principle, Schrödinger wave			
	40				

Evaluation Criteria						
Components	Maximum Marks					
T1	20					
T2	20					
End Semester Examination	35					
TA	25 [Attendance (07M), Class Test, Quizzes, etc (07 M), Assignments in					
	PBL mode (06 M), and Internal assessment (05 M)]					
Total	100					

	<b>Recommended Reading material:</b> Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books, Reference Books, Journals, Reports, Websites etc. in the IEEE format)						
1.	A. K. Ghatak, Optics, Tata McGraw Hill.						
2.	E. Hecht, <i>Optics</i> , Pearson Education.						
3.	F. A. Jenkins and H. E. White, <i>Fundamentals of optics</i> , Tata McGraw Hill.						
4.	R. S. Sirohi, Wave Optics, Orient and Longman.						
5.	Reshnick, Relativity, New Age.						
6.	A. Beiser, Concepts of Modern Physics, Mc Graw Hill International.						
7.	Introduction to Quantum Mechanics by David J. Griffiths, Second Edition, Pearson.						
8.	Quantum Mechanics by Ghatak and Lokanathan, 5 <sup>th</sup> Edition, Macmillan India.						

<u>Project Based Learning (PBL):</u> The students will be given small projects (in groups) on various topics like Interference, diffraction, polarization, relativity, radiations, Quantum mechanics, to explore their applications in engineering, and technology to understand the role of physics. This will help the students to connect the concept studied in the class with their application in engineering and technology and will enhance their analytical skills.

## <u>Detailed Syllabus</u> Lab-wise Breakup

Course Code	15B17PH171	Semester: ODD		Semester: 1st Session: 2020 -2021 Month from June 21 to July 21 (deferred)	
Course Name	Physics Lab-1				
Credits	01		Contact I	Hours	02

Faculty (Names)	Coordinator(s)	Anuraj Panwar and S K Awasthi
	Teacher(s) (Alphabetically)	Alok Pratap Singh Chauhan, Amit Verma, Anuj Kumar, Ashish Bhatnagar, Manoj Tripathi, N. K. Sharma, Papia Chowdhury, Prashant Chauhan, R. K. Dwivedi, S. P. Purohit, Sandeep Chhoker, Vikas Malik

COURSE	OUTCOMES	COGNITIVE LEVELS
C170.1	Recall optics and modern physics principles behind the experiments.	Remembering (C1)
C170.2	Explain the experimental setup and the principles involved behind the experiments performed.	Understanding (C2)
C170.3	Plan the experiment and set the apparatus and take measurements.	Applying (C3)
C170.4	Analyze the data obtained and calculate the error.	Analyzing (C4)
C170.5	Interpret and justify the results.	Evaluating (C5)

Module No.	Title of the Module	List of Experiments	СО
1.	Optics	<ol> <li>To determine the wavelength of sodium light with the help of Newton's rings setup</li> <li>To determine the wavelength of sodium light with the help of Fresnel's Bi-prism</li> <li>To find the specific rotation of cane- sugar solution by a polarimeter at room temperature, using half-shade / Bi-quartz device.</li> <li>To determine the dispersive power of the material of a prism with the help of a spectrometer.</li> <li>To determine the wavelength of prominent spectral lines of mercury light by a plane transmission grating using normal incidence method</li> </ol>	1-5
2.	Modern Physics	<ul><li>6. To study the Photoelectric effect and determine the value of Planck's constant.</li><li>7. Determination of Planck's constant by measuring radiation in a fixed spectral range.</li></ul>	1-5
3.	Electricity and Magnetism	<ul> <li>8. To verify Stefan's law by electrical method.</li> <li>9. To determine the resistance per unit length of Carey Foster's bridge wire and specific resistance of the material of the given wire using Carey Foster's bridge.</li> <li>10. To study the variation of magnetic field with distance, along the axis of Helmholtz galvanometer, and to estimate the radius of the coil.</li> </ul>	1-5

Components	Maximum Marks	
Mid Term Viva (V1)	20	
End Term Viva (V2)	20	
D2D	60	
Total	100	

Recommended Reading material: Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books, Reference Books, Journals, Reports, Websites etc. in the IEEE format)
 Dey and Dutta, *Practical Physics*, Kalyani Publication.
 Experiment hand-outs.

**Course Description** 

				cripuo			
Course Code		15B11MA111				I <b>Session</b> 2021-22 <b>om</b> Aug 2021- Jan 2022	
Course 1	Name	Mathematics-1		_			
Credits	Credits 4 Contact Hours 3-1-0						
Faculty (Names)	1	Coordinator(s)	Dr. Dinesh C	. S. Bisl	nt, Dr. Vipi	n Chandra	Dubey
	Teacher(s) (Alphabetically)  Dr. Amita Bhagat, Dr. Anuj Bhardwaj, Dr. Dr. Mohd. Sarfaraz, Dr. Neha Singhal, Dr. Neha Sharma Pandey, Dr. Vipin Chandra Dubey				Nisha Shukla, Dr.		
COURS						COGNITIVE LEVELS	
After pur	rsuing t	he above mentioned	course, the stu	dents w	ill be able t	0:	
C105.1	Explain the concepts of limits, continuity and differentiability of functions of several variables.			Understanding Level (C2)			
C105.2	varia	Explain the Taylor's series expansion of functions of several variables and apply it in finding maxima and minima of functions.			Applying Level (C3)		
C105.3		e use of double and t me of curves and su		to find a	area and		Applying Level (C3)
C105.4		ain the concepts of ve's and Gauss diverg				blems.	Applying Level (C3)
C105.5	C105.5 Solve the ordinary differential equations and explain the concepts of Laplace transform for solving engineering problems.			Applying Level (C3)			
C105.6	Utilize matrix algebra for solving a system of linear equations and explain eigenvalues, eigenvectors, diagonalization and quadratic form.			Applying Level (C3)			

Mod le No.	u Title of the Module	Topics in the Module	No. of Lectures for the module
1.	Partial differentiation	Chain rule, change of variables, Taylor's series for function of two or more variables, maxima and minima of function of two variables, Jacobians.	7

2.	Double integrals	Change of order and change of variables, Gamma and Beta functions, Applications to areas and volumes, Equations to curves and surfaces, Plots of some well known curves and surfaces.	7
3.	Vector Differentiation	Gradient, divergence and curl, Normal and tangent to a plane surface.	3
4.	Vector Integration	Line integrals, Green's Theorem in a plane, surface integrals, Gauss and Stokes theorems.	7
5.	Differential Equations	Differential Equations with constant coefficients, Cauchy-Euler equations, Equations of the form y''=f(y), simple applications.	6
6.	Laplace Transform	Laplace Transform, inverse Laplace transform, Dirac delta and unit step function, Solution of IVPs.	6
7.	Matrices	Linear dependence and independence of rows, row echelon form, Rank, Gauss elimination method, Eigen values and vectors, symmetric matrices, Reduction to diagonal form Quadratic forms.	6
		Total number of lectures	42

#### **Evaluation Criteria**

#### **Components Maximum Marks**

T1 20

T2 20

**End Semester Examination 35** 

TA 25 (Quiz, Assignments, Tutorials, PBL)

Total 100

Project based learning: Each student in a group of 4-5 will apply the concepts of Differential Equations and Laplace Transform to solve practical problems.

**Recommended Reading material:** Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books, Reference Books, Journals, Reports, Websites etc. in the IEEE format)

- **1. Jain, R. K. & Iyenger, S. R. K.,** Advanced Engineering Mathematics, 4<sup>th</sup> Ed., Alpha Science International, 2013.
- **2. Prasad, C.,** (a) Mathematics for Engineers (b) Advanced Mathematics for Engineers, Prasad Mudranalaya, 1982.
- 3. Lipschutz, S., Lipsom, M., Linear Algebra, 3<sup>rd</sup> Ed, Schaum Outline Series, 2001.
- **4. Thomas, G. B and Finney, R. L.**, Calculus and Analytical Geometry, 9th Ed., Pearson Education Asia (Adisson Wesley), New Delhi, 2000.

### **Detailed Syllabus**

## Lecture-wise Breakup

Course Code	15B11HS112	Semester: Odd	Semester:	I Session 2021-22
			Month: Ju	uly-December
Course Name	English			
Credits	3	Contact 1	Hours	2-0-2
Faculty (Names)	Coordinator(s)	Dr Monali Bhattacharya & Dr Ekta Srivastava		
	Teacher(s)	Dr Ankita Das, Dr AnshuBanwari, Dr Ekta Srivastava, Dr Monali		
	(Alphabetically)	Bhattacharya, Dr Nilu Chaudhary, Ms Puneet Pannu,		

COURSE	COURSE OUTCOMES			
C114.1				
C114.2	Apply grammar concepts and vocabulary skills in presentation and in spoken and written communication.	Apply (C3)		
C114.3	Demonstrate an understanding of different forms of literature and rhetorical devices	Understand (C2)		
C114.4	Examine literature as reflection of individual and society	Analyse (C4)		
C114.5	Compose different forms of professional writing	Create (C6)		
C114.6	Apply Phonetics through theory and practice for better pronunciation	Apply (C3)		

Module No.	Title of the Module	<b>Topics in the Module</b>	No. of Lectures for the module
1.	English as a Communication Tool	Basic aspects of English: LSRW: Listening, Speaking, Reading, Writing Non-Verbal Communication: Body Language, Voice Modulation, Posture; Presentation Techniques: Self-Presentation Strategies; Types of Strategic Presentation; PPT Presentations; Using Gambits to refine Group Discussions and Interview Skills	9
2.	Grammar & Vocabulary	Phonetics: Pronunciation, Stress, Rhythm, Intonation  Parts of Speech and Agreement of Noun-Verb; Noun- Pronoun;  Tense, Aspect, Mood and Voice  Vocabulary Enrichment techniques: The concept of Word Formation; Root words from foreign languages and their use in English; Acquaintance with prefixes and suffixes from foreign languages in English to form derivatives; Synonyms, Antonyms, Homonyms, Homophones, Collocation.  Error Analysis	6

3	Language	Forms of Literature & Rhetorical Devices	5
	throu	Short Story	
	gh Literature	·Too Bad by Isaac Asimov	
		Poem	
		·Where the mind is without fear by Rabindra Nath Tagore	
		One act Play	
		Refund by Fritz Karinthy	
		Famous Speech	
		Swami Vivekanand's Chicago Speech	
3.	Professional	Textual Organization	8
	Application/Writi	·Letter Writing, Email Etiquettes, Feedbacks and Review	
	ng	Writing	
		·Notice, Agenda and Minutes	
		·Format of Report Writing	
		·CV and Resume	
		Total number of Lectures	28

### **Practical Modules**

	No. of Hours
Syllabus for Reading Modules	in Lab: 7
Practical for Learning Comprehension Strategies of Reading through Activities:	
Summarizing	
Sequencing	
Inferencing	
<ul> <li>Comparing and contrasting; Drawing conclusions</li> </ul>	
Self-questioning	
<ul> <li>Problem-solving;</li> </ul>	
<ul> <li>Newspaper reading and comprehension</li> </ul>	
Relating background knowledge	
<ul> <li>Distinguishing between fact and opinion</li> </ul>	
<ul> <li>Finding the main idea, important facts, and supporting details</li> </ul>	5 Hrs
Practice Quick Reading through SKY Read up-Speed Up Software or SAT/CAT/IELTS exercises.	2 Hrs
	No. of Hours
Syllabus for Listening Modules	in Lab: 7
Practical for Mastering the Skill of Listening through Activities:	
<ul> <li>Listening for the Main Idea; Listening for Detail: 5 Ws and H questions; Listening in sequence: for order following Through Ted Talks</li> </ul>	
Listening with vocabulary through Bingo	
<ul> <li>Listening for understanding personal &amp; social connotations through News Brief, Interviews.</li> </ul>	
<ul> <li>Listening for non-verbal connotations through Audio-Videos and Movie Clips</li> </ul>	5 Hrs
<ul> <li>Listening for Functional Language: understanding choice of words for same situation.</li> </ul>	

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Syllabus for Speaking Modules	
	in Lab: 7
Activities based on Usage of Grammar Concepts in Communication:	2 Hrs
<ul> <li>Spoken vs. Written language- Formal and Informal English (Bingo);</li> <li>Practice through JAM Session- Situational Dialogues – Greetings – Taking; Leave – Introducing Oneself and Others. Making Requests and Seeking Permissions - Telephone Etiquette.</li> </ul>	
Activities for Vocabulary Enrichment:	2 Hrs
<ul> <li>Cue Cards based Activities: Practice: Learning new words and usage through various connotations and denotations;</li> <li>Practice through News Briefs &amp; Peer Learning</li> </ul>	
Activities for learning Public Speaking:	3 Hrs
<ul> <li>Exposure to Structured Talks - Non-verbal Communication: Practice: Situational Dialogues –Navigating Memory Lanes and Re-creating through Role-Play- Expressions in Various Situations;</li> <li>Practice of Phonetics, Stress and Intonation while Making a Short Speech, Extempore and Making a Presentation</li> </ul>	

Syllabus for Writing Modules	No. of Hours in Lab: 7
Grammar Practice & Exercises:	
Jumbled Paragraphs for grammar learning	
Picking the Out of Context sentence in a Jumbled Paragraph for proper communication.	
Application of right grammar concepts	2 Hrs
Practical on Different forms of writing, like persuasive writing, expository, narrative, descriptive	1 Hr
Cohesion in Writing: Application of Discourse Markers:	
Enriched vocabulary patterns in sentence structuring	
Fill in the missing vocabulary items in sentences	
Fill in the missing structural items in sentences	
Finish the text (Cloze Writing)	
Bring cohesion in writing with proper tense usage	2 Hrs
Picture composition & Precis Writing:	
Using Action Words	
Activity writing	
Information Transfer	
Experience Sharing	2 Hrs

Evaluation Criteria		
Components	Maximum Marks	
T1	20	
T2: LAB Exam	20	
End Semester Examination	35	
TA	25 (Project, Lab Test, Lab File Assessment)	
Total	100	

**PBL Component:** The creative writing project is to be done in a group of 3-4 students. Students will be asked to choose one specific word that impacts all six dimensions of their life-mental, physical, emotional, relational, spiritual and financial. The simplicity of choosing one word makes it a catalyst for life change. The word chosen should serve as the underlying theme for the creative activity. (Examples of some words could be Power, Passion, Gratitude, Compassion, Integrity, Humility to name a few). Students will Craft/Create/Compose either a poem, prose piece (short story) or one act play on the above highlighting the choice of the word, justifying their choice and the use of literary devices to make their piece of art appealing and effective. The creative write-up should be attempted in 1-2 pages, using Times New Roman 12 font with single spacing. The students will also attach a page to enumerate the following:

- 1. Identify the devices used.
- 2. Highlight the contribution of each group member against his/her name in complete work.

	<b>Example 2.</b> Sommended Reading material: Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books, rence Books, Journals, Reports, Websites etc. in the IEEE format)
1.	C.L.Bovee, J.V.Thill, M.Chaturvedi, Business Communication Today, 9 <sup>th</sup> Ed, Pearson Education, copyright@ Dorling Kinderslay (India) Pvt Ltd, 2009
2.	Kelly M. Quintanilla and S.T.Wahl, Business and Professional Communication, Sage Publications Pvt India Ltd,2011
3.	S. Kumar and Pushp Lata, Communication Skills, Oxford University Press,1st, Ed. 2011
4.	R.K Bansal, and J.B Harrison, Spoken English for India, Orient Longman, 2018
5	M A Yadugiri, The Pronunciation of English: Principles and Practice, Viva Books Pvt. Ltd, India, 2015
6	Rabindranath Tagore, "Where the Mind is without Fear", BK Classics
7	<b>A. R. Rizvi,</b> 'Effective Technical Communication' 2nd edition, McGraw Hill Education Private Limited, Chennai, 2018.
8	<b>Raymond Murphy,</b> English Grammar in Use, 5 <sup>th</sup> edition, Cambridge University Press, 2019.
9	Hewings, M. English Pronunciation in Use. Advanced. Cambridge: CUP, 2009
10	<b>Krishna Mohan and N. P. Singh</b> , <i>Speaking English Effectively</i> 2nd Edition. Macmillan Publishers India Ltd. Delhi. 2011
11	Isaac Asimov, "Too Bad", Robot Visions, ROC Books, New York, NY, USA, 1991
12	<b>Suresh Kumar, E. &amp;Sreehari, P</b> . <i>A Handbook for English Language Laboratories</i> . New Delhi: Foundation, 2009.
13	<b>Fritz Karinthy,</b> "The Refund", A Play in One Act adapted by Percival Wilde, French's Acting Edition, London, 1958
14	<b>Swami Vivekananda &amp;Sankar Srinivasan, "Sisters</b> & Brothers of America: Speech at World Parliament of Religions, Chicago, 1893", Creative Space Independent Publishing Platform, 2015