



PIONEERING EDUCATION
★ SINCE 1992 ★

RAHUL INTERNATIONAL SCHOOL

CURRICULUM OVERVIEW
GRADE XII - COMMERCE
A.Y. 2022-23

SCHOOL COPY

Dear Parents and Guardians,

It is my great pleasure to extend to you a very warm welcome to Rahul International School (RIS). This Curriculum Guide provides information about the curriculum, our approach to teaching and learning in grade 12.

At RIS we are a proud National /International Curriculum school that is committed to excellence in education and to the spirit of international education. In line with our mission statement, our three key focal areas as a school are academic rigour, holistic development of students and the development of internationally minded students. In addition to this we are proud to be a truly inclusive school, supporting and developing students regardless of their background or ability level. Overall, our aim is to develop a caring school community fostering respect for individual and cultural diversity, living and breathing the School Vision attitudes and the Learner Profile attributes of our school. Our nurturing grade one staff members provide an atmosphere in which life-long learners develop in a safe and secure environment.

Students are encouraged to take risks and to share their ideas, thoughts, and use problem-solving strategies during a wide-range of learning activities. We are committed to providing a variety of learning opportunities and experiences that are based on the interests, strengths, and needs of our students, and in laying the foundation for success in learning. As a school, we truly focus on helping the whole child to grow, focusing on physical, social, emotional, cognitive and linguistic development.

I look forward to seeing and meeting you in the school throughout the year. I would also like to take this opportunity to wish you and your child a happy, productive and fun time in our school in the year ahead.

Best regards,

Principal

Rahul International School

Vision: “ A culturally diverse skill –oriented international school where children can achieve the skills of Global Citizenship, leadership, communication , Emotional intelligence , entrepreneurship , problem solving and team working for future preparedness”

Mission: “To empower children to unfold their potentials as whole and unique persons, and through them create a peaceful world community through Quality education”

Core Values: Achievement | Collaboration |Innovation| Integrity | Respect |
Responsibility

Our Motto: Towards Excellence



CENTRAL BOARD OF SECONDARY EDUCATION

CBSE CURRICULUM

The curriculum refers to the lessons and educational content to be taught to a learner in a school. In empirical terms, it may be regarded as the sum total of a planned set of educational experiences provided to a learner by a school. It encompasses general objectives of learning, competencies to be attained, courses of study, subject-wise learning outcomes and content, pedagogical practices and assessment guidelines. The curriculum provided by CBSE is based on National Curriculum Framework-2005 and seeks to provide opportunities for students to achieve excellence in learning.

Salient Features of the CBSE Senior Secondary School Curriculum

The Curriculum prescribed by CBSE strives to:

1. Provide ample scope for holistic i.e. physical, Intellectual and social development of students;
2. Emphasize constructivist rather than rote learning by highlighting the importance of hands-on experience;
3. Enlist general and specific teaching and assessment objectives to make learning competency based;
4. Encourage the application of knowledge and skills in real life problemsolving scenarios;
5. Uphold the Constitutional Values by encouraging values-based learning activities;
6. Promote Critical and Creative Thinking aligned to the 21st Century Skills in classrooms;
7. Integrate innovations in pedagogy such as experiential learning, Sport & Art-Integrated Learning ,toy-based pedagogy, storytelling, gamification etc. with technological innovations (ICT integration) to keep pace with the global trends in various disciplines;
8. Promote inclusive practices as an overriding consideration in all educational activities;
9. Enhance and support learning by different types of assessments; and Integrate environmental education in various disciplines.

Objectives of the Curriculum

1. Achieve desired national level of competencies in cognitive, affective and psychomotor domains;
2. facilitate acquisition of 21st Century Skills and enhance self and social awareness through thematic or multidisciplinary approach;
3. Promote Cooperative Learning, Collaborative Learning, Self-directed learning etc. to facilitate realization of learning outcomes;
4. Promote Authentic Assessments based on real world tasks involving meaningful application of knowledge and skills;
5. Promote Life Skills , inculcate values , foster cultural learning and international understanding in an interdependent society;
6. Acquire the ability to utilize technology and information for the betterment of humankind;
7. Strengthen knowledge and attitude related to livelihood skills and promote lifelong learning;
8. Develop the ability to appreciate art and showcase talents;
9. Promote physical fitness, health and well-being

SUBJECTS OFFERED AT RIS: GRADE 12

SCIENCE	COMMERCE	HUMANITIES
ENGLISH CORE	ENGLISH CORE	ENGLISH CORE
PHYSICS	ACCOUNTANCY	PSYCHOLOGY
CHEMISTRY	ECONOMICS	MATHS/APPLIED MATHS + IP/CS/PE
BIOLOGY + CS/PSYCHOLOGY/PE	BUSINESS + IP/PE	HISTORY
MATHS + PSYCHOLOGY/CS/PE	MATHS/APPLIED MATHS + IP/PE	SOCIOLOGY

**SUBJECT: ENGLISH CORE
(CODE NO.:301)**

PERIODIC ASSESSMENT	
Book: Flamingo	
Sr. No.	Topic
1	The last season
2	The lost spring
3	Deep water
4	My mother at sixty six (poem)
5	Elementary classroom in a slum (poem)
Book: Vistas	
Sr. No.	Topic
1	The third level
2	The tiger king
3	Journey to the end of the earth
4	The enemy
Reading Comprehension	
Sr .No.	Topic
1	Reading unseen passage
Creative writing	
Sr. No.	Topic
1	Notice writing
2	Classified advertisements
3	Letter to an editor
Grammar	
Sr.No.	Topic
1	Direct /Indirect speech

TERM - 1**Book: Flamingo**

Sr .No.	Topic
1	Portion of periodic assessment
2	The rat trap
3	The indigo
4	Poets and pancakes
5	Keeping quiet (poem)

Book: Vistas

Sr. No.	Topic
1	Portion of periodic assessment
2	Should wizard hit mommy
3	On the face of it
4	Evans tries an O –level

Reading Comprehension

Sr. No.	Topic
1	Portion of periodic assessment
2	Reading unseen passage

Creative writing

Sr. No.	Topic
1	Notice writing
2	Report writing
3	Letter to an editor
4	Classified advertisement

Grammar

Sr No	Topic
1	Direct /Indirect speech
2	Types of sentences
3	Active passive voice

PREBOARDS	
Book: Flamingo	
Sr. No.	Topic
1	<i>Entire course book</i>
Book: Vistas	
Sr.No.	Topic
1	<i>Entire course book</i>
Reading Comprehension	
Sr.No.	Topic
1	<i>Portion of periodic assessment and term 1</i>
Creative writing	
Sr. No.	Topic
1	<i>Portion of periodic assessment and term 1</i>
2	Creative writing :formal / informal letter
3	Long writing task :Application for job / informal invitation replies
4	Report writing
Grammar	
Sr.No.	Topic
1	<i>Portion of periodic assessment and term 1</i>
2	Subject verb agreement and term 1 exam
3	Conjunctions

TOPIC WISE PERIODS

Ln. No.	LITERATURE	No. of Periods
1	The last season	4
2	The lost spring	2
3	Deep water	2
4	My mother at 66	4
5	Elementary classroom in a slum	5
6	The third level	4
7	The tiger king	4
8	Journey to the end of the world	4
9	The enemy	4
10	Writing skills	15
11	Direct /indirect speech	12
12	The rat trap	4
13	The indigo	4
14	Poet and pancakes	4
15	Keeping quiet	4
16	A thing of beauty	5
12	Types of sentences	10
13	Conjunctions	6
15	The interview	5
16	Going places	5
17	The road side stand	5
18	Aunt's Jenniffer's tiger	6
19	Memory of a child	6
20	Cutting of my long hair	6
21	Subject verb agreement	10
22	Active passive voice	10
23	Avans tries o level	6
24	On the face of it	6
25	Should wizard hit mommy	5
26	letter writing : formal and informal	8
27	Long writing task	6
28	Report writing	8
29	Ee too are human beings	4

ENGLISH SYLLABUS DISTRIBUTION

MONTH	Week	Dates	No. of periods Available	Topic
APRIL	I	4 to 9	8	The last season (4) The lost spring (4)
	II	11 to 16	4	Deep water (2) My mother at 66 (2)
	III	18 to 23	8	Elementary classroom in slum (3) The third level (5)
	IV	25 to 30	8	The third level (4) The tiger king (4)
MAY	I	2 TO 7	8	Journey to the end of the world (4) The enemy (4)
	II	9 TO 14	8	Writing skills (8)
JUNE	I	1 TO 4	2	REVISION SESSION
	II	6 TO 11	8	Writing skills (8)
	III	13 TO 18	8	Writing skills (7) Direct / indirect speech (1)
	IV	20 TO 25	6	Direct / indirect speech (6)
	V	27 TO 30	5	TEST - I
JULY	I	4 TO 9	8	Direct / indirect speech (5) The rat trap (3)
	II	11 TO 16	8	The rat trap (1) The indigo (4) Poet and Pancakes (3)
	III	18 TO 23	8	Poet and pancakes (1) Keeping quiet (4) A thing of beauty (3)
	IV	25 TO 30	8	A thing of beauty (2) Types of sentences(6)
AUGUST	I	1 TO 6	8	Types of sentences (4) Conjunctions (4)
	II	8 TO 13	4	Keeping quiet (4)
	III	15 TO 20	3	Should wizard hit mommy (3)
	IV	22 TO 27	8	Should wizard hit mommy (2) on the face of it (6)
	V	29 TO 31	2	Evan tries an 0 -level (2)

SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	8	Evan tries o level (4) Subject verb agreement (4)
	III	12 TO 17	8	REVISION SESSION
	IV	19 TO 24	0	TERM -1
	V	26 TO 30	0	TERM-
OCTOBER	I	3 TO 8	7	Subject verb agreement (6) A road side stand (1)
	II	10 TO 15	8	Aunt Jennifer's tiger (5) memory of a child (3)
	III	17 TO 22	8	Memory of a child (3) Cutting my long hair (5)
	IV	24 TO 29	0	DIWALI VACATION
NOVEMBER	I	1 TO 5	6	Cutting my long hair (1) Letter writing (5)
	II	7 TO 12	7	letter writing (3)
	III	14 TO 19	8	Long writing task (6) Report writing (2)
	IV	21 TO 26	8	Report writing (6) We too are humans (2)
	V	28 TO 30	4	
DECEMBER	I	1 TO 3	0	PRE -BOARDS -1
	II	5 TO 9	0	PRE -BOARDS -1
	III	12 TO 17	0	REVISION SESSION
	IV	19 TO 24	0	REVISION SESSION
	V	25 TO 31	0	REVISION SESSION

SUBJECT: ECONOMICS

(CODE NO.:030)

PERIODIC ASSESSMENT	
PART -A	
Sr. No.	Topic
1	Chapter 1: National income and related aggregates
2	Chapter 2: Money and Banking
PART -B	
3	Chapter 1 :Development experience (1947-1990) and economic reforms since 1991

TERM - 1	
PART -A	
Sr. No.	Topic
1	Chapter 3: Determinants of income and employment
2	Chapter 4: Govt budget and the economy
PART -B	
3	Chapter 3 :Development experience of India : A comparison with neighbours

PREBOARDS	
PART -A	
Sr No.	Topic
1	Chapter 5: Balance of payments
PART -B	
2	Chapter 2: Current Challenges of India – A comparison with neighbours

PROJECT

Sr . No	TOPIC
1	Disinvestment policy of government OR Inclusive growth strategy

TOPIC WISE PERIODS

Ln. No.	Topic	No. of Periods
	Introductory Macroeconomics	
1	National income and Related aggregates	24
2	Money and banking	15
3	Determination of income and employment	27
4	Government Budget and the Economy	15
5	Balance of payment	15
	Indian Economic development	
6	Development Experience (1947-90) and Economic Reforms since 1991	28
7	Current Challenge facing Indian Economy	60
8	Development Experience of India - A comparison with Neighbors	12
10	Total	196

ECONOMICS SYLLABUS DISTRIBUTION

MONTH	Week	Dates	No. of Periods Available	Topic
APRIL	I	4 to 9	8	National income and Related aggregates (8)
	II	11 to 16	4	National income and Related aggregates (4)
	III	18 to 23	8	National income and Related aggregates (8)
	IV	25 to 30	8	National income and Related Aggregates(4) Money and Banking (4)
MAY	I	2 TO 7	8	Money and Banking (8)
	II	9 TO 14	8	Money and Banking (3) Development experience (8)
JUNE	I	1 TO 4	2	REVISION SESSION
	II	6 TO 11	8	Development experience (8)
	III	13 TO 18	8	Development experience (8)
	IV	20 TO 25	6	REVISION SESSION
	V	27 TO 30	5	TEST - I
JULY	I	4 TO 9	6	Determination of income and employment (6)
	II	11 TO 16	8	Determination of income and employment (8)
	III	18 TO 23	8	Determination of income and employment(8)
	IV	25 TO 30	8	Determination of income and employment (5) Dev experience of India ; a comparison (3)
AUGUST	I	1 TO 6	8	Development experience of India : a comparison (8)
	II	8 TO 13	4	Development experience of India : a comparison (1) govt budget and economy (3)
	III	15 TO 20	6	Govt budget and economy (6)
	IV	22 TO 27	8	Govt budget and economy (6) Current challenges facing Indian economy (2)

	V	29 TO 31	2	REVISION SESSION
SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	7	Balance of payments (7)
	III	12 TO 17	8	REVISION SESSION
	IV	19 TO 24	0	TERM -1
	V	26 TO 30	0	TERM-
OCTOBER	I	3 TO 8	8	Balance of payment (8)
	II	10 TO 15	8	Current Challenges facing Indian economy (8)
	III	17 TO 22	8	Current challenges facing Indian economy (8)
	IV	24 TO 29	0	DIWALI VACATION
NOVEMBER	I	1 TO 5	6	Current challenges facing Indian economy (6)
	II	7 TO 12	6	Current challenges facing Indian economy (6)
	III	14 TO 19	8	Current challenges facing Indian economy (6)
	IV	21 TO 26	8	Current challenges facing Indian economy (8)
	V	28 TO 30	4	Current challenges facing Indian economy (4)
DECEMBER	I	1 TO 3	0	PRE -BOARDS -1
	II	5 TO 9	0	PRE -BOARDS -1
	III	12 TO 17	0	
	IV	19 TO 24	0	REVISION SESSION
	V	25 TO 31	0	REVISION SESSION

SUBJECT: ACCOUNTS

(CODE NO.:055)

PERIODIC ASSESSMENT	
PART -1	
Sr No.	Topic
1	UNIT 1 : Financial statements for NPO
PART -2	
2	UNIT 4: Analysis of financial statements
3	UNIT 5: Cash flow statement
	OR
	UNIT 4:Computerized Accounting

TERM -1	
PART -1	
Sr .No.	Topic
1	Portion of periodic assessment
2	UNIT 2: Accounting for partnership firm

PREBOARDS	
PART -1	
Sr .No.	Topic
1	Portion of periodic assessment and term 1
2	UNIT 3: Accounting for companies
3	<i>Entire course book will be assessed</i>

Projects will be discussed in the class

TOPIC WISE PERIODS

Ln. No.	Topic	No. of Periods
PART A		
1	Financial Statements of Not -for - profit organisation	21
2	Accounting for partnership firms	86
3	Accounting for companies	35
PART B		
4	Analysis of financial statements	30
5	Cash flow Statements	20
or		
4	Computerized Accounting	50
		200

ACCOUNTS SYLLABUS DISTRIBUTION

MONTH	Week	Dates	No. of Periods Available(198)	Topic
APRIL	I	4 to 9	8	Financial statements for Not-for - profit organisations(8)
	II	11 to 16	4	Financial statements for Not-for - profit organisations(4)
	III	18 to 23	8	Financial statements for Not-for - profit organisations(8)
	IV	25 to 30	8	Financial statements for Not -for profit(1) Analysis of financial statements (7)/ Computarized Accounting
MAY	I	2 TO 7	8	Analysis of financial statements (8)/Commutarized accounting
	II	9 TO 14	8	Analysis of financial statements(8)/ Computarized accounting
JUNE	I	1 TO 4	2	REVISION SESSION

	II	6 TO 11	8	Analysis of financial statements (7) Cash flow statements (1)/ Computarized accounting
	III	13 TO 18	8	Cashflow statements (8)/ Computarized accounting
	IV	20 TO 25	6	Cash flow statements (6)/ Computarized accounting
	V	27 TO 30	5	TEST - I
JULY	I	4 TO 9	8	Accounting for partnership firm (8)
	II	11 TO 16	8	Accounting for partnership firm(8)
	III	18 TO 23	8	Accounting for partnership firms(8)
	IV	25 TO 30	8	Accounting for partnership firm (8)
AUGUST	I	1 TO 6	8	Accounting for partnership firm (8)
	II	8 TO 13	4	Accounting for partnership firm (4)
	III	15 TO 20	3	Accountign for partnership firms (3)
	IV	22 TO 27	8	Accounting for partnership firm (8)
	V	29 TO 31	2	Accounting for partnership firms(2)
SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	8	Accounting for partnership firms(8)
	III	12 TO 17	8	REVISION SESSION
	IV	19 TO 24	0	TERM -1
	V	26 TO 30	0	TERM-
OCTOBER	I	3 TO 8	7	Accounting for partnership firms(7)
	II	10 TO 15	8	Accounting for partnership firms(8)
	III	17 TO 22	8	Accounting for partnership firm (6) Accounting for companies (2)
	IV	24 TO 29	0	DIWALI VACATION
NOVEMBER	I	1 TO 5	6	Accounting for companies (6)

	II	7 TO 12	7	Accounting for companies (7)
	III	14 TO 19	8	Accounting for companies (8)
	IV	21 TO 26	8	Accounting for companies (8)
	V	28 TO 30	4	Accounting for companies (4)
DECEMBER	I	1 TO 3	0	PRE -BOARDS -1
	II	5 TO 9	0	PRE -BOARDS -1
	III	12 TO 17	0	REVISION SESSION
	IV	19 TO 24	0	REVISION SESSION
	V	25 TO 31	0	
			202	

SUBJECT: BUSINESS STUDIES

(CODE NO.:054)

PERIODIC ASSESSMENT	
PART -1	
Sr .No.	Topic
1	Chapter 1: Nature and Significance of Management
2	Chapter 2: Principles of management
3	Chapter 3: Business environment
PART -2	
4	Chapter 9: Financial management

TERM – 1	
PART -1	
Sr .No.	Topic
1	Portion of periodic assessment 1
2	Chapter 4: Planning
3	Chapter 5: Organising
4	Chapter 6: Staffing
PART -2	
5	Chapter 10: Financial markets

PREBOARDS	
PART -1	
Sr .No.	Topic
1	Chapter 7: Directing
2	Chapter 8: Controlling
PART -2	
3	Chapter 11: Marketing Management
4	Chapter 12 : Consumer protection
5	<i>Entire course book will be assessed</i>

PROJECT

Elements of business environment

Sr .No.	Topic
1	Changes witnessed over the last few years on mode of packaging and its economic impact.
2	The reasons behind changes in the following: Coca – Cola and Fanta in the seventies to Thums up and Campa Cola in the eighties to Pepsi and Coke in nineties.
3	The changes in the pattern of import and export of different Products.

TOPIC WISE PERIODS

Ln. No.	Topic	No. of Periods
1	Nature and significance of management	12
2	Principles of Management	12
3	Business environment	12
4	Planning	14
5	Organising	15
6	Staffing	16
7	Directing	15
8	Controlling	12
9=P2	Financial Management	20
10	Financial markets	18
11	Marketing Management	30
12	Consumer protection	12
	Total	190

BUSINESS STUDIES SYLLABUS DISTRIBUTION

MONTH	Week	Dates	No. of Periods Available	Topic
APRIL	I	4 to 9	8	Nature and significance of management(8)
	II	11 to 16	4	Nature and significance of management(2) Principles of management (2)
	III	18 to 23	8	Principles of Management(8)
	IV	25 to 30	8	Principles of management (4) Financial management (4)
MAY	I	2 TO 7	8	Financial management (8)
	II	9 TO 14	8	Financial management (8)
JUNE	I	1 TO 4	2	Revision session
	II	6 TO 11	8	Business environment (8)
	III	13 TO 18	8	Business environment (4) Planning (4)
	IV	20 TO 25	6	REVISION SESSION
	V	27 TO 30	5	TEST - I
JULY	I	4 TO 9	5	Planning(5)
	II	11 TO 16	8	Planning (5)
	III	18 TO 23	8	Organising (8)
	IV	25 TO 30	8	Organising (7) Financial markets (1)
AUGUST	I	1 TO 6	8	Financial markets (8)
	II	8 TO 13	4	Financial markets (4)
	III	15 TO 20	8	Financial markets (5) Staffing (3)
	IV	22 TO 27	8	Staffing (8)
	V	29 TO 31	2	Staffing (2)

SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	8	Staffing (3) Marketing management (5)
	III	12 TO 17	8	REVISION SESSION
	IV	19 TO 24	0	TERM -1
	V	26 TO 30	0	TERM-
OCTOBER	I	3 TO 8	8	Marketing management (8)
	II	10 TO 15	7	Marketing management (7)
	III	17 TO 22	8	Marketing management (8)
	IV	24 TO 29	0	DIWALI VACATION
NOVEMBER	I	1 TO 5	8	Marketing management (2) Directing (6)
	II	7 TO 12	7	Directing (7)
	III	14 TO 19	8	Directing (2) Controlling (6)
	IV	21 TO 26	8	Controlling (6) Consumer protecting (2)
	V	28 TO 30	4	Consumer (protection (4)
DECEMBER	I	1 TO 3	0	PRE -BOARDS -1
	II	5 TO 9	0	PRE -BOARDS -1
	III	12 TO 17	0	REVISION SESSION
	IV	19 TO 24	0	REVISION SESSION
	V	25 TO 31	0	REVISION SESSION
			206	

SUBJECT: MATHEMATICS

(CODE NO.:041)

PERIODIC ASSESSMENT	
PART -1	
Sr. No.	Topic
1	Chapter 1 : Relation and Functions
2	Chapter 2: Inverse Trigonometric Functions
3	Chapter 3:Matrices
PART -2	
4	Chapter 7: Integrals
5	Chapter 8:Application of Integrals

TERM-1	
PART -1	
Sr. No.	Topic
1	Portion of periodic assessment
2	Chapter 4: Determinants
PART -2	
3	Chapter 9: Differential Equations
4	Chapter 10 : Vectors
5	Chapter 11 :3 Dimensional Geometry

PREBOARDS	
PART -1	
Sr .No.	Topic
1	Portion of periodic assessment and term 1
2	Chapter 5 : Continuity and Differentiability
3	Chapter 6: Application of Derivatives
PART -2	
4	Chapter 12: Linear Programming
5	Chapter 13 : Probability

TOPIC WISE PERIODS

Ln. No.	Topic	No. of Periods
1	Relation and Functions	11
2	Inverse Trigonometric Functions	8
3	Matrices	18
4	Determinants	20
5	Continuity and Differentiability	16
6	Application of Derivatives	8
7P -II	Integrals	15
8	Application of Integrals	11
9	Differential Equations	12
10	Vectors	15
11	3 Dimensional Geometry	13
12	Linear Programming	15
13	Probability	20
		182

MATHS SYLLABUS DISTRIBUTION

MONTH	Week	Dates	No. of Periods Available	Topic
APRIL	I	4 to 9	8	Relations and Functions (8)
	II	11 to 16	4	Relations and Functions (2) Integrals (2)
	III	18 to 23	8	Integrals (8)
	IV	25 to 30	8	Integrals (5) Application of Integrals(3)

MAY	I	2 TO 7	8	Application of Integrals (8)
	II	9 TO 14	8	Inverse Trigonometric Functions (8)
JUNE	I	1 TO 4	2	Matrices (2)
	II	6 TO 11	8	Matrices (8)
	III	13 TO 18	8	Matrices (8)
	IV	20 TO 25	6	REVISION SESSION
	V	27 TO 30	5	TEST - I
JULY	I	4 TO 9	8	Differential Equations (8)
	II	11 TO 16	8	Differential Equations (4) Determinants (4)
	III	18 TO 23	8	Determinants (8)
	IV	25 TO 30	8	Determinants (8)
AUGUST	I	1 TO 6	8	Vectors (8)
	II	8 TO 13	4	Vectors (4)
	III	15 TO 20	3	Vectors (3)
	IV	22 TO 27	8	3 Dimensional Geometry (8)
	V	29 TO 31	2	3 Dimensional Geometry (2)
SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	8	3 Dimensional Geometry (3)
	III	12 TO 17	8	REVISION SESSION
	IV	19 TO 24	0	TERM -1
	V	26 TO 30	0	TERM-
OCTOBER	I	3 TO 8	7	Continuity and Differentiability (7)

	II	10 TO 15	8	Continuity and Differentiability (8)
	III	17 TO 22	8	Application of Derivatives (8)
	IV	24 TO 29	0	DIWALI VACATION
NOVEMBER	I	1 TO 5	6	Linear Programming (6)
	II	7 TO 12	7	Linear Programming (7)
	III	14 TO 19	8	Probability (8)
	IV	21 TO 26	8	Probability (8)
	V	28 TO 30	4	Probability (4)
DECEMBER	I	1 TO 3	0	PRE -BOARDS -1
	II	5 TO 9	0	PRE -BOARDS -1
	III	12 TO 17	0	REVISION SESSION
	IV	19 TO 24	0	REVISION SESSION
	V	25 TO 31	0	REVISION SESSION

SUBJECT: APPLIED MATHS

(CODE NO.:241)

PERIODIC ASSESSMENT	
Sr No.	Topic
1	Chapter 1 : Fundamentals of Calculus
2	Chapter 2: Algebra
3	Chapter 3:Logical reasoning

TERM -1	
Sr. No.	Topic
1	Portion of periodic assessment
2	Chapter 4: Commercial Mathematics
3	Chapter 5: Probability
4	Chapter 6:2D geometry
5	Linear programming

PREBOARDS	
Sr. No.	Topic
1	Chapter 8: Analysis of time based data
2	<i>Entire course book will be assessed</i>

Projects will be discussed in the class

TOPIC WISE PERIODS

Ln. No.	Topic	No. of Periods
1	Fundamentals of calculus	30
2	Algebra	15
3	Logical reasoning	15
4	Commercial maths	15
5	Probability	25
6	2 d geometry	12
7	Linear programming	20
8	Analysis of time based data	30
	Total	162

APPLIED MATHS SYLLBUS DISTRIBUTION

MONTH	Week	Dates	No. of Periods Available	Topic
APRIL	I	4 to 9	8	Fundamentals of Calculus (8)
	II	11 to 16	8	Fundamentals of Calculus (8)
	III	18 to 23	8	Fundamentals of Calculus (8)
	IV	25 to 30	8	Algebra(2) Fundamentals of calculus (6)
MAY	I	2 TO 7	8	Algebra (8)
	II	9 TO 14	8	Algebra (5) Logical reasoning (3)
JUNE	I	1 TO 4	2	REVISION SESSION
	II	6 TO 11	8	Logical reasoning (8)

	III	13 TO 18	8	Logical reasoning (4) Commercial mathematics (4)
	IV	20 TO 25	6	Commercial mathematics (6)
	V	27 TO 30	5	TEST - I
JULY	I	4 TO 9	8	Commercial mathematics (5) Probability (3)
	II	11 TO 16	8	Probability (8)
	III	18 TO 23	8	Probability (8)
	IV	25 TO 30	8	Probability (8)
AUGUST	I	1 TO 6	8	Probability (1) 2 D geometry (7)
	II	8 TO 13	4	2d geometry(4)
	III	15 TO 20	3	2D geometry (1) Linear programming (2)
	IV	22 TO 27	8	Linear programming (8)
	V	29 TO 31	2	Linear programming (2)
SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	8	Linear programming (5) Analysis of time based data (3)
	III	12 TO 17	8	REVISION SESSION
	IV	19 TO 24	0	TERM -1
	V	26 TO 30	0	TERM-
OCTOBER	I	3 TO 8	7	Analysis of time based data (7)
	II	10 TO 15	8	Analysis of time based data (8)
	III	17 TO 22	8	Analysis of time based data (8)
	IV	24 TO 29	0	DIWALI VACATION
NOVEMBER	I	1 TO 5	6	Analysis of time based data (6)
	II	7 TO 12	7	Analysis of time based data (1)

	III	14 TO 19	8	Doubt clearing session
	IV	21 TO 26	8	Doubt clearing session
	V	28 TO 30	4	Past paper discussion
DECEMBER	I	1 TO 3	0	PRE -BOARDS -1
	II	5 TO 9	0	PRE -BOARDS -1
	III	12 TO 17	0	REVISION SESSION
	IV	19 TO 24	0	REVISION SESSION
	V	25 TO 31	0	REVISION SESSION
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SUBJECT: INFORMATICS PRACTICES

(CODE NO.:065)

PERIODIC ASSESSMENT	
Sr. No.	Topic
1	<p>UNIT 1 : DATA HANDLING</p> <p>Python Pandas</p> <p>Advanced operations on Data Frames: pivoting, sorting, and aggregation Descriptive statistics: min, max, mode, mean, count, sum, median, quartile, var Create a histogram, and quantiles. Function application: pipe, apply, aggregation (group by), transform, and apply map. Reindexing, and altering labels.</p> <p>Numpy</p> <p>1D array, 2D array Arrays: slices, joins, and subsets Arithmetic operations on 2D arrays Covariance, correlation and linear regression</p> <p>Plotting with Pyplot</p> <p>Plot bar graphs, histograms, frequency polygons, box plots, and scatter plots.</p>

TERM -1	
Sr. No.	Topic
1	Portion of periodic assessment
2	<p>UNIT – 2: Basic Software Engineering</p> <p>Introduction to software engineering Software Processes: waterfall model, evolutionary model, and component based model Delivery models: incremental delivery, spiral delivery Process activities: specification, design/implementation, validation, evolution Agile methods: pair programming, and Scrum Business use-case diagrams Practical aspects: Version control system (GIT), and do case</p>

	studies of software systems and build use-case diagrams
3	<p>UNIT 3:Data Management -2 Write a minimal Django based web application that parses a GET and POST request, and writes the fields to a file - flat file and CSV file. Interface Python with an SQL database SQL commands: aggregation functions – having, group by, order by.</p> <p>UNIT 4: Society , Law and Ethics</p> <ul style="list-style-type: none"> • Intellectual property rights, plagiarism, digital rights management, and licensing (Creative Commons, GPL and Apache), open source, open data, privacy. • Privacy laws, fraud; cyber-crime- phishing, illegal downloads, child pornography, scams; cyber forensics, IT Act, 2000. • Technology and society: understanding of societal issues and cultural changes induced by technology. • E-waste management: proper disposal of used electronic gadgets. • Identity theft, unique ids, and biometrics. • Gender and disability issues while teaching and using computers.

PREBOARDS	
Sr. No.	Topic
1	<i>Entire course book will be assessed</i>

1) Data Management: SQL+ web-server

- Find the min, max, sum, and average of the marks in a student marks table.
- Find the total number of customers from each country in the table (customer ID, customer Name, country) using group by.
- Write a SQL query to order the (student ID, marks) table in descending order of the marks.
- Integrate SQL with Python by importing MYSQL dB
- Write a Django based web server to parse a user request (POST), and write it to a CSV file.

2) Data handling using Python libraries

- Use map functions to convert all negative numbers in a Data Frame to the mean of all the numbers.
- Consider a Data Frame, where each row contains the item category, item name, and expenditure.
- Group the rows by the category, and print the total expenditure per category.
- Given a Series, print all the elements that are above the 75th percentile.
- Given a day's worth of stock market data, aggregate it. Print the highest, lowest, and closing prices of each stock.
- Given sample data, plot a linear regression line.
- Take data from government web sites, aggregate and summarize it. Then plot it using different plotting functions of the PyPlot library.

3) Basic Software Engineering

- Business use-case diagrams for an airline ticket booking system, train reservation system, stock exchange
- Collaboratively write a program and manage the code with a version control system (GIT)

PROJECT

One Project work will be given during the Academic Year

TOPIC WISE PERIODS

Ln. No.	Topic	No. of Periods
1	Data Handling -2	60
2	Basic software Engineering	25
3	Data Management	20
4	Society , Law and ethics	15
5	Practicals	

INFORMATICS PRACTICES SYLLABUS DISTRIBUTION

MONTH	Week	Dates	No. of Periods Available	Topic
APRIL	I	4 to 9	8	Data Handling -(8)
	II	11 to 16	4	Data Handling -(4)
	III	18 to 23	8	Data Handling -(8)
	IV	25 to 30	8	Data Handling -(8)
MAY	I	2 TO 7	8	Data Handling -(8)
	II	9 TO 14	8	Data Handling -(8)
JUNE	I	1 TO 4	2	Revision session
	II	6 TO 11	8	Data Handling -(8)
	III	13 TO 18	8	Data Handling -(8)
	IV	20 TO 25	6	REVISION SESSION
	V	27 TO 30	5	TEST - I
JULY	I	4 TO 9	5	Basic software Engineering (5)

	II	11 TO 16	8	Basic software Engineering (8)
	III	18 TO 23	8	Basic software Engineering (8)
	IV	25 TO 30	8	Basic software Engineering (4) Data management (4)
AUGUST	I	1 TO 6	8	Data management (8)
	II	8 TO 13	4	Data management (8)
	III	15 TO 20	8	Society law and ethics (8)
	IV	22 TO 27	8	Society law and ethics (7)
	V	29 TO 31	2	REVISION SESSION
SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	8	REVISION SESSION
	III	12 TO 17	8	REVISION SESSION
	IV	19 TO 24	0	TERM -1
	V	26 TO 30	0	TERM-
OCTOBER	I	3 TO 8	8	TERM 1 paper discussion
	II	10 TO 15	7	Doubt clearing session
	III	17 TO 22	8	Doubt clearing session
	IV	24 TO 29	0	DIWALI VACATION
NOVEMBER	I	1 TO 5	8	Past papers discussion
	II	7 TO 12	7	Past papers discussion
	III	14 TO 19	8	Past papers discussion
	IV	21 TO 26	8	Past papers discussion
	V	28 TO 30	4	REVISION SESSION
DECEMBER	I	1 TO 3	0	PRE -BOARDS -1

	II	5 TO 9	0	PRE -BOARDS -1
	III	12 TO 17	0	REVISION SESSION
	IV	19 TO 24	0	REVISION SESSION
	V	25 TO 31	0	REVISION SESSION
			206	

SUBJECT: PHYSICAL EDUCATION

(CODE NO.:048)

PERIODIC ASSESSMENT

Sr. No.	Topic
1	UNIT 1: Planning in sports
2	UNIT 2: Sports and nutrition
3	UNIT 3: Yoga and lifestyle
4	UNIT 4: Physical Education and sports for children with special needs
5	UNIT 5: Children and woman in sports

TERM -1

Sr .No.	Topic
1	Portion of periodic assessment
2	UNIT 6 : Test and measurement in sports
3	UNIT 7: Physiology and injuries In sports
4	UNIT 8: Biomechanics and sports
5	UNIT 9: Psychology and sports

PREBOARDS

Sr. No.	Topic
1	<i>Entire course book will be assessed</i>
2	UNIT 10: Training in sports

PRACTICALS

Sr. No.	TOPICS
1	Fitness tests administration for all items.
2	Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.
3	Procedure for administering Senior Citizen Fitness Test for 5 elderly family members.
4	Any one game of your choice out of the list above. Labelled diagram of field & equipment (Rules, Terminologies & Skills).

TOPIC WISE PERIODS

Ln. No.	Topic	No. of Periods
1	Planning In sports	7
2	Sports and Nutrition	8
3	Yoga and lifestyle	15
4	Physical education and sports for CWSN	10
5	Children and woman in sports	10
6	Tests and measurement in sports	20
7	Physiology and injuries in sports	10
8	Biomechanics and sports	10
9	Psychology and sports	10
10	Training in sports	15

PHYSICAL EDUCATION SYLLABUS DISTRIBUTION

MONTH	Week	Dates	No. of Periods Available(198)	Topic
APRIL	I	4 to 9	8	Planning in sports - 7 Sports and Nutrition -1
	II	11 to 16	6	Sports and nutrition - 6
	III	18 to 23	8	Sports and nutrition-1 Yoga and lifestyle - 7
	IV	25 to 30	8	Yoga and lifestyle (8)
MAY	I	2 TO 7	8	Physical education and sports for CWSN -8
	II	9 TO 14	8	Physical education and sports for CWSN -2 Children and woman in sports (8)
JUNE	I	1 TO 4	2	Revision session
	II	6 TO 11	8	Children and woman in sports (2) Test and measurement in sports (6)

	III	13 TO 18	8	Test and measurement in sports (8)
	IV	20 TO 25	6	REVISION SESSION
	V	27 TO 30	5	TEST - I
JULY	I	4 TO 9	5	Test and measurement in sports (5)
	II	11 TO 16	8	Test and measurement in sports (1) Physiology and injuries in sports (7)
	III	18 TO 23	8	Physiology and injuries in sports (3) Biomechanics and sports (5)
	IV	25 TO 30	8	Biomechanics and sports (5) Psychology and sports (3)
AUGUST	I	1 TO 6	8	Psychology and sports (7) Training in sports (1)
	II	8 TO 13	4	Training in sports (4)
	III	15 TO 20	8	Training in sports (8)
	IV	22 TO 27	8	Training in sports (2) practicals
	V	29 TO 31	2	
SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	8	
	III	12 TO 17	8	REVISION SESSION
	IV	19 TO 24	0	TERM -1
	V	26 TO 30	0	TERM-
OCTOBER	I	3 TO 8	8	
	II	10 TO 15	7	
	III	17 TO 22	8	
	IV	24 TO 29	0	DIWALI VACATION
NOVEMBER	I	1 TO 5	8	

	II	7 TO 12	7	
	III	14 TO 19	8	
	IV	21 TO 26	8	
	V	28 TO 30	4	
DECEMBER	I	1 TO 3	0	PRE -BOARDS -1
	II	5 TO 9	0	PRE -BOARDS -1
	III	12 TO 17	0	REVISION SESSION
	IV	19 TO 24	0	REVISION SESSION
	V	25 TO 31	0	REVISION SESSION
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TEST SERIES 1

DATE	DAY	SUBJECTS
7th April 2022	Thursday	Business Studies
13th April 2022	Wednesday	Economics
21st April 2022	Thursday	English
28th April 2022	Thursday	Math / Informatics Practices
5th May 2022	Thursday	Accounts
12th May 2022	Thursday	Physical Education

TEST SERIES 2

DATE	DAY	SUBJECTS
14th July 2022	Thursday	Economics
21st July 2022	Thursday	Accounts
28th July 2022	Thursday	English
4th August 2022	Thursday	Business Studies
11th August 2022	Thursday	Math / Informatics Practices
17th August 2022	Wednesday	Physical Education

PERIODIC TEST 1

DATE	DAY	SUBJECTS
23 rd June 2022	Thursday	English
24 th June 2022	Friday	Informatics Practices
27 th June 2022	Monday	Math / Applied Math
28 th June 2022	Tuesday	Accounts
29 th June 2022	Wednesday	Physical Education
30 th June 2022	Thursday	Business Studies

TERM 1

DATE	DAY	SUBJECTS
21 ST September 2022	Wednesday	Accounts
22 nd September 2022	Thursday	Informatics Practices
23 rd September 2022	Friday	Math / Applied math
26 September 2022	Monday	Economics
27 th September 2022	Tuesday	Physical education
28 th September 2022	Wednesday	Business studies
29 th September 2022	Thursday	English

PRE-BOARDS

DATE	DAY	SUBJECTS
1 ST December 2022	Thursday	English
2 nd December 2022	Friday	Math / Applied math
3 rd December 2022	Saturday	Business studies
5 th December 2022	Monday	Accounts
6 th December 2022	Tuesday	Economics
7 th December 2022	Wednesday	Informatics Practices
8 TH December 2022	Thursday	Physical education



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