

PRE-FOUNDATION CAREER CARE PROGRAM Class 10th

- ✓ FOUNDATION
- ✓ NTSE / NMTC / MTSE
- ✓ PRMO / IJSO / NMO
- ✓ HOMI BHABHA EXAM



10th

FOUNDATION COURSE

- CBSE SYLLABUS COVERAGE
- ONLINE TESTING PLATFORM
- YEAR LONG ACADEMIC PLANNER
- DAILY PRACTICE PAPERS
- REGULAR CLASSES
- DOUBT SESSIONS
- MOTIVATION & ACADEMIC COUNSELING
- BOARD & COMPETITION BASED STUDY

THE KEY TO
SUCCESS
IS TO
START EARLY



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About FCCP DIVISION

TestprepKart launched Foundation Career Care Programs (FCCPs) Division in 2013 with the philosophy of an early start. As the name suggests, the division aims at giving the edge to the students for Career Examinations like JEE (Main + Advanced), NEET/ AIIMS, & other high stake entrance examinations etc. before entering into senior secondary classes.

In last 8 years, FCCP division has evolved significantly and works in two segments of classes, namely, Sub-Junior classes (5 – 8) and Junior classes (9 – 10). The two segments have different teaching methodologies and so are their targets.

In junior classes, the targeted competitive examinations are National Standard Examination in Junior Science (NSEJS, 1st stage of International Junior Science Olympiad (IJSO)), National Talent Search Examination (NTSE), Pre-Regional Mathematics Olympiad (PreRMO, 1st stage of International Mathematics Olympiad). In addition to these competitive examinations, we also prepare students for class10 board examination, according to the latest changes made in it, by exposing them to mock situations like that of the real one. In Sub-Junior classes, the targeted competitive examinations are National Mathematics Talent Competitions (NMTC), Private Mathematics and Science Olympiads and other private Olympiads which can be cleared by following CBSE curriculum of the particular class.

Other than the competitive examinations, we build conceptual understanding in all the subjects by following NCERT curriculum and conducting various academic workshops to make students understand the application of several concepts.

CounselKart Educational Services

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Foundation Course Details



Sir C. V. Raman

Course Name

JEE / PMT for Grade 10 Students
(CR Batch)

Named after the Physicist - C. V. Raman

Course Snapshot

Heads	Details
Target	CBSE class 10th - PCMB / NTSE / Olympiads/MIT Connect
Class	10 th
Course Name	Foundation CR Batch
Course Code	FD-10
Eligibility	Class 9th studying / 10th Appearing
Study Medium	English
Course Commencement	As Per Announcement
Course Ends	As Per The Detailed Milestone Chart
Course Taught For	CBSE class 10th - PCMB / NTSE / Olympiads/MIT Connect

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Course Content:

- Regular Classroom Coaching
- Each session of 120 minutes lecture which is further divided into problem discussion of 45/75 min and theoretical and conceptual learning.
- 3 sessions per week.
- Doubt removal session after each topic conducted.
- Periodic Test is conducted in the form of Part Test & Cumulative Test.
- Online tests with comprehensive report and in-depth analysis.
- Doubt removal session after each test.
- Regular practice of Daily Practice Papers.



TestprepKart Special Academic Offer

About IJSO

International Junior Science Olympiad (IJSO) is a competition in science for students who are fifteen years or younger on 31st December of the competition year. IJSO aims to promote interest in science among school students, exposing them to problem solving, critical thinking and experimentation. Over the years IJSO aims to positively impact science and mathematics education at school level.

IJSO is held in December every year, in different countries. The academic competitions of the IJSO include challenging tests in topics of science, both as theory questions and practical tasks. The tests are designed to address students' understanding of concepts, and their ability to apply concepts to the situations described in the tests.

An important aim of the Olympiads is for young people to experience different cultures and to bring about interactions between students from across the world. The Olympiads thus have a potential to promote global peace and understanding.

The IJSO statutes state that no country may have its delegation excluded from participation on political grounds, lack of diplomatic relations, lack of recognition by the government of the organizing country, imposed embargoes, or other similar reasons. It is expected that the team representing the country has been selected after some form of national effort.

Participation in the IJSO either by a host country, a delegation or an observer, signifies acceptance of the statutes governing the IJSO.



Preparation Classes



Counseling Sessions



Online Test



Free Trial Classes



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Program Overview



**Massachusetts
Institute of
Technology**

The strength of the MIT - connect for a student, in grade 9, is the synchronous, online pre-calculus sessions.

For each MIT - connect session, the students go through the lectures by an MIT professor. These lectures are based on the selected topics from pre-calculus lectures. After the lecture, the student is given to solve questions which he has already been taught in pre-calculus sessions. After the sessions, the doubts of the student will be discussed by the HOD, Math Department from Testprepkart. The MIT-connect program runs for a two-week duration, generally in the middle of the course.

These sessions help to clear student's misconceptions, fill gaps, strengthen the student's mathematical foundation, and help move each student to higher levels of mathematical understanding. Each student has an opportunity to ask questions, discuss math content, solve math problems, and answer questions given by the teacher.

Syllabus:

Sr. No.	Topics
1	Trigonometry
2	Conic Sections
3	Vectors
4	Metrics
5	Complex Numbers
6	Probability
7	Series





Features of Testprekart Study Material - Grade 10

We at testprekart divide the study material into hard copy and soft copy.

The hard copy of study material approx. 2100 pages, divided into 15 booklets, is dispatched to the student's place by courier. The soft copy of study material is uploaded into the students' account grade wise.

Hard copy of material

- A study material in which every concept is explained properly using relevant examples & proper questions.
- It has theory from above top authors' book and only includes those theory & concepts which are best explained in it.
- A study material which have lots of questions of different difficulty level, properly ordered and some questions that actually needs brain storming which help you to develop concepts implementation ability.
- No need to switch from one book to another book studying concepts from different books at a time. It provides one stop solution.
- Comprehensive Study Material in Hard copy for CBSE Grade 10,NTSE, ISJO and Olympiads

Soft copy of material

- Comprehensive study material, chapter wise, topic wise and sub topic wise notes for CBSE for grade 10;
- Comprehensive study material chapter wise , topic wise notes for grade 10 for Engineering or Medical foundation;
- Chapter wise, topic wise and sub topic wise questions bank for CBSE Grade 10;
- Special Question bank for Grade 8 - PCMB in order to prepare for Grade 10 CBSE;
- Chapter wise, unit wise assignment for CBSE Grade 10 with solutions;
- Notes and Assignments for NTSE - SAT & MAT

Comprehensive study material means - Chapter wise, topic wise, sub-topic wise notes , MCQs, Solved questions, unsolved questions. the soft copy of the study material will be uploaded into students' accounts as the course progresses.





Type of Tests

- **Class Tests / Topic Tests** – Conducted after teaching a class for that particular subject. Each Class test is going to be of 30 minutes and questions are of MCQ type. The class test shall comprise of those topics / sub topics which have been taught in that very class.
- **Chapter Test** – Teaching of each chapter will be followed by a chapter test. The chapter test will comprise of the topics and sub- topics of the whole chapter for that very subject. There will be MCQ type questions in this. The duration of such tests will be 45 minutes.
- **Unit Test / Module test / Part Tests** – This will be conducted as per the units and modules taught so far. For example, in Chemistry, there are 3 units, Physical, Organic and Inorganic so the unit tests will be conducted on each unit or module subject wise. The duration of such tests will be 90 minutes.
- **Full Length Tests** – Conducted at the end of sessions. It will be from all chapters, units and topics. The duration of such tests will be 180 minutes.
- **Past Year Papers** – These are the past 5 years papers for Grade 10 which a student can use for the bench marking.

Number of Tests for Grade 10

Most powerful Analytical Engine

- **120 Class Tests** – To check your understanding after every class
- **60 Chapter Tests** – To check your progress as you proceed further
- **20 Unit Test** – To let you know what is your understanding after each module





- **10 Mock Tests** – In order to bench mark yourself with the JEE and other Engineering exams
- **Rank Predictor** – You shall be able to know what AIR you are achieving after tech Full length test
- **10 Aptitude Tests**
- **10 papers for NTSE SAT and MAT**
- **PSA tests**

Most Powerful Analytical Engine

Overview: Question-wise as well as all over performance summary

Performance Analysis: Accuracy and time-taken reports at levels - full-paper, subject and topic wise

Difficulty Analysis: Feedback on question selection at full-paper level and sectional levels

Accuracy: Browsing through each question topic-wise and checking your responses as well as solutions

Peer Comparison: Comparing your time, score and negative marks with others at full-paper and sectional levels

Toppers: See a comprehensive list of all India toppers for each test

Cumulative Analysis: Track your performance across all tests at full-paper and sectional levels



Foundation Grade 10 - Mathematics

Sr. No.	Chapter Name	Level -1				Level -2			Level -3						Level -4	Total
		Fill in the blanks	True / False	Match the Following	Other Subjective questions	Text Book Level	Exemplar Questions	HOTS Questions	MCQs	MACQs	Passage Based Questions	Assertion and Reasons	Multiple Matching Questions	Integer Type Questions	Advanced Level	
1	Real Numbers	11	10	2	30	12	9	4	12	6	5	7	1	3	6	118
2	Polynomials	7	10	2	26	9	8	4	7	5	6	6	1	4	0	95
3	Pair of Linear Equation in Two variables	8	7	2	29	19	4	3	12	4	6	7	1	4	0	106
4	Quadratic Equations	12	10	2	34	13	8	5	14	9	5	6	2	7	0	127
5	Arithmetic Progression	9	10	2	39	22	4	5	16	6	3	7		4	25	152
6	Triangles	11	10	2	23	22	5	3	13	5	3	3	1	7		108
7	Quadratic Geometry	12	11	3	20	15	4	2	9	5	3	3		7	9	103
8	Introduction to Trigonometry	13	10	2	31	17	10	4	9	6	3	3	1	5	17	131
9	Some application of Trigonometry	5	4	1	22	9	3	3	10	2	8	2	1	0	0	70
10	Circles	10	10	5	26	10	9	3	14	5	10	3		3	12	120
11	Constructions			1	14	10	7	4	5						0	41
12	Area related to Circles	9	10	3	33	21	8	5	15	5	9	3	1	6	0	128
13	Surface Areas and Volume	10	10	3	41	18	10	6	20	6	11	5	1	4	14	159
14	Statistics	16	11	4	23	10	6	5	11	4	9	3	2	5	8	117
15	Probability	10	10	2	26	16	8	4	15	6	6	5		6	14	128
16	Binomial Theorem	0	0	0	0	0	0	0	10	4	3	5	1	3	0	26
17	Sets, Relations and Functions	0	0	0	0	0	0	0	8	5	6	5	1	4	0	29
18	Complex Number	0	0	0	0	0	0	0	10	4	3	3	1	6	0	27
19	Matrices	0	0	0	0	0	0	0	12	4	3	4		3	0	26
		143	133	36	417	223	103	60	222	91	102	80	15	81	105	1811

Foundation Grade 10 - Physics

Sr. No.	Sr. No.	Chapter Name	Level -1				Level -2			Level -3						Level -4	Total
			Fill in the blanks	True / False	Match the Following	Other Subjective questions	Text Book Level	Exemplar Questions	HOTS Questions	MCQs	MACQs	Passage Based Questions	Assertion and Reasons	Multiple Matching Questions	Integer Type Questions	Advanced Level	
1	1	Light Reflection and Refraction	18	19	2	42	30	4	5	65	25	6	12	2	21	25	276
2	2	Human Eye and Colourful World	14	16	2	37	16	4	4	68	12	7	4	1	11	35	231
3	3	Electricity	31	21	3	72	41	5	5	84	11	17	16	4	22	37	369
4	4	Magnetic Effects of Electric Current	29	19	3	51	39	6	13	48	10	3	11	1	9	45	287
5	5	Sources of Energy	12	16	1	55	24	6	11	54	6		3	1	12	12	213
6	6	Static Electricity	0	0	0	0	0	0	0	42	16	8	7	4	9	0	86
7	7	Alternating Current	0	0	0	0	0	0	0	23	6	7	5	1	4	0	46
8	8	Modern Physics	0	0	0	0	0	0	0	28	18	6	6	1	6	0	65
9	9	Electronics	0	0	0	0	0	0	0	48	5	2	4	1	3	0	63
			104	91	11	257	150	25	38	460	109	56	68	16	97	154	1636

Foundation Grade 10 - Chemistry

Sr. No.	Chapter Name	Level -1				Level -2			Level -3						Level -4	Total
		Fill in the blanks	True / False	Match the Following	Other Subjective questions	Text Book Level	Exemplar Questions	HOTS Questions	MCQs	MACQs	Passage Based Questions	Assertion and Reasons	Multiple Matching Questions	Integer Type Questions	Advanced Level	
1	Chemical Reactions and Equations	11	9	1	46	28	5	11	27	17	3	5	1	4	33	201
2	Acids , Bases and Salts	12	13	2	49	34	5	19	30	14	3	3	1	2	39	226
3	Metals and Non-Metals	19	10	2	63	31	5	12	32	7	6	4	1	4	41	237
4	Carbon and its Compounds	10	13	2	53	28	3	20	36	15	6	5	1	2	18	212
5	Periodic Classification of Elements	11	14	3	39	23	5	10	58	15	6	4	1	2	41	232
6	Chemical Kinetics	0	0	0	0	0	0	0	16	6	3	4	1	2	0	32
7	Chemical Equilibrium	0	0	0	0	0	0	0	22	7	3	4	1	2	0	39
8	Organic Compounds	0	0	0	0	0	0	0	32	11	6	2	1	4	0	56
9	General Organic Chemistry	0	0	0	0	0	0	0	17	7	3	6	1	2	0	36
		63	59	10	250	144	23	72	270	99	39	37	9	24	172	1271

Foundation Grade 10 - Biology

Sr. No.	Chapter Name	Level -1				Level -2			Level -3		Total
		Fill in the blanks	True / False	Match the Following	Other Subjective questions	Text Book Level	Exemplar Questions	HOTS Questions	MCQs	Assertion and Reasons	
1	Life Processes	27	30	7	60	34	7	15	54	5	239
2	Control and Coordination	25	30	5	63	26	6	6	53	9	223
3	How do Organism Reproduce	30	39	2	84	23	5	15	68	7	273
4	Heredity and Evolution	41	24	5	63	29	4	9	53	10	238
5	Our Environment	41	24	4	72	14	4	11	65	9	244
6	Management of Natural Resources	36	27	4	71	16	4	6	38	6	208
7	Biotechnology	0	0	0	0	0	0	0	29	9	38
8	Biomolecules	0	0	0	0	0	0	0	57	7	64
		200	174	27	413	142	30	62	417	62	1527

COURSE PLANNER

10th

Medium: English

Course Concept: The Program prepare students for NTSE & Build Strong foundation that leads to Excellent performance in Engineering & Medical Examination along with excellence in school studies.

PREMIUM PROGRAM ▶ **ACADEMIC SESSION: 2022 - 2023**

Teaching / Learning Tools

- ◆ Classroom Teaching
- ◆ Daily Practice Papers (DPPs)
- ◆ Study Material (Sheet / Modules)
- ◆ Periodic Test
- ◆ Doubt Classes
- ◆ SEP Sheets

Total Academic Hours

- ◆ Course Duration: 46 Weeks
- ◆ No. of Lectures: 184
- ◆ Duration of 1 Lecture: 120 Min.
- ◆ Classroom Teaching: 280 Hrs.
- ◆ Testing Duration: 110 Hrs.
- ◆ Academic Hours: 390 Hrs.

Disclaimer:

The institute reserves the right to increase / decrease the number of lectures allotted to any topic and also make changes in the sequence of the topic in each subject depending upon the course requirements.

The course planner in all respect is applicable only at TestprepKart online classes.. At other teaching models there might be some variations in terms of number of hours / testing duration.