



SYLLABUS FOR **DIAMOND ASSORTMENT & GRADING**. (ADVANCE – THREE MONTHS / 3 days a week)



INTRODUCTION of Diamond's Properties i.e., PHYSICAL AND OPTICAL PROPERTIES:

PHYSICAL Properties: Related Practicals side by side.

1. Shape with Practicals
2. Forms with Practicals
3. Habit with Practicals
4. Crystal system with Practicals
5. Twinning with Practicals
6. Surface Markings with Practicals
7. Cleavage with Practicals
8. Hardness
9. Specific Gravity

OPTICAL Properties:

1. Color of Diamonds
2. Transparency
3. Luster
4. Refraction
5. Refractive Index (R.I.)
6. Reflection
7. Brilliancy
8. Dispersion
9. Fluorescence
10. Inclusions

❖ **ROUGH DIAMOND SHAPES/ TYPES OF SURFACE MARKING PRACTICALS:**

Study of Rough Diamonds Practically:

Features to Identify rough diamonds.
Habit, forms and common shapes in rough diamonds.

❖ **THEORY & PRACTICALS ON INCLUSIONS (INTERNAL IMPURITIES):**

Feathers	Crystals	Natt	Clouds	Pinpoints	Naat
Bearding	Cavity				

❖ **THEORY & PRACTICALS ON BLEMISHES (EXTERNAL DEFECTS):**

Naturals	Nick	Scratch	Chipping
Extra Facets	Pits	Abrasions	Polishing lines, etc.

❖ **CLARITY GRADES & GRADING PRACTICALS**

Factors of Clarity Grading
Methods of Clarity Grades
International Clarity Grades: FL/IF/VVS1-VVS2/VS1-VS2/SI1-SI2-SI3/I1-I2-I3.
Practicals on Clarity Grading; HOW TO GRADE A DIAMOND FOR CLARITY

❖ **CUT GRADING OF DIAMONDS WITH PRACTICALS; only with 10X lens.**

What is ideal Table percentage; how to measure Table.
What is ideal Pavilion depth; how to measure Pavilion.
How much is ideal Crown angle; how to measure Crown.
How the Girdle thickness is measured.
Reasons of Girdle Thin/Thick girdle.
Impact of Thin and Thick girdle in setting.

❖ **COLOUR GRADING PRACTICALS**

What is the reason of Color Grading.
Why diamonds are graded for Color
Color grading requirements
Color grading procedures
G.I.A. color grades from D to Z / Z+
Indian color grading system



❖ **IDENTIFICATION OF DIAMOND/CUBIC ZIRCONIA/MOISSANITE:**

Identification of Diamonds, Cubic Zirconia (A.D.), and Moissanite with the help of 10X lens WITH PRACTICAL. Every student can easily differentiate easily with confidence.

GENRAL INFORMATIONS RELATED TO MARKET & TRADE:

General Market Informations
Weights and measurements of diamonds/Cubic Zirconia/Moissanite.
Calculation of weight of Diamond/Cubic Zirconia/Moissanite
Use of sieve (Chalni)
Use of Tripod (Ghodi)
Calculation of value of diamonds as per the weight and rate.

(NOTE: INDIVIDUAL PERSONAL ATTENTION, ONLY 2-3 STUDENTS, TIMINGS AS PER REQUEST)