BROCHURE

Topic:

5-day workshop on Basics of Geovia SURPAC (Department of Mining Engineering, NIT Rourkela)

Abstract:

In continuation of the recent acquisition of the SURPAC software in the department of mining engineering, a 5-day training workshop is being conducted by the company representatives. The demonstrations will cover basic working and hands on experience of SURPAC for applications of mine planning and design.

Date:

9th August 2021 to 13th August 2021

Timing:

10 am to 1pm & 2:30 pm to 5 pm daily.

Venue:

Online on MS Teams: DAY 1 Joining Link is below.

https://teams.microsoft.com/l/meetup-join/19%3ameeting_ODFjYmNlZTgtM2QwNS00ODZiLTljNTUtMjVkZmM5YWU0NTdh%40thread.v2/0?context=%7b%22Tid%22%3a%222b355d28-3605-49ca-90af-5b9dd7b5755f%22%2c%22Oid%22%3a%22e9b34ee4-a327-4689-ba40-3e4d87b438e8%22%7d

Coordinator:

Prof. Tushar Gupta, Dept. of Mining Engineering, NIT RKL

Co-Coordinators:

Prof. Falguni Sarkar, Dept. of Mining Engineering, NIT RKL
Prof. R.M. Bishwal, Dept. of Mining Engineering, NIT RKL

Presenter:

Mr. Edla Ravi Kumar, EDS Technologies.

Topic Details:

The details of the covered topics are as under:

GEOVIA SURPAC Training (Five days Schedule)

Contents: • Fundamentals of Geovia Surpac • Segment, String and Point Concept • Create and edit point, segment and string • Importing survey data into Surpac • DTM concepts and its application • Geological Database • Solid Modeling • Block Modeling and Estimation • Pit Design • Drill & Blast

Day wise Schedule for 5 days

Day – 1

- Introduction to Surpac view port
- File system and file naming in Surpac
- Introduction to point, segment and string
- Types of string (open, close, clockwise, anticlockwise)
- Introduction to layer concepts
- Importing data into Surpac through MS-excel CSV file
- Editing points, segments and strings
- Concept of range and its use in Surpac
- Trimming of string data
- Modifying string data
- Image Draping
- Introduction to DTM- Concepts, creation and applications
- Contouring through DTM
- Line of Intersection between DTM's
- Lower triangle of 2 DTM's
- Creating solid by intersecting 2 DTM's

Day – 2

- Volume Calculation: o Net volume o Cut and Fill Volume o Volume of Solids
- Create sections from DTM
- Auto-Plotting
- Introduction to Geological database
- Importing borehole data into Surpac
- Displaying Drill hole Collars and Assay
- Extract Drill Hole Layout
- Extraction of various reports from geology database

Day – 3

- Geological section preparation
- Solid Modelling
- Solid Validation
- Planes Concept
- Drill hole composite
- Basic Statistics
- Introduction to Block modelling
- Block model creation
- Introduction to Block model attributes
- Adding attributes to a block model

Day – 4

- Block model constraints
- Block model estimation – Inverse distance/Ordinary Kriging
- Resource Reporting • Slice plan or sectioning of block model
- Basic Pit Design

Day – 5

- Pit Design with Ramp
- Reserve Reporting
- Drill & Blast with Report
- Revision of 5 days training