



MINES DESIGN USING SURPAC

Year:2019-20

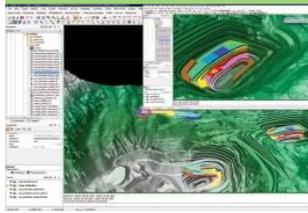
Event Description:

This Mines Design Using Surpass webinar was organized on the year of 2019-20. Which Deal with geological database and its Structure.

**Mines Design
using Surpac**

Year : 2019

Centurion University of Technology and
Management



Pre-requisites: Nil
 Course Type : Audit (Workshop)
 Duration : 30 Hours

Course Objectives:

- To make aware of basic components in mine design software.
- Expose to the validation of Geological modeling.
- Familiarization with String, DTM, Geological database.
- Geological Drill hole database, Block modeling, Road and Ramp design

Learning Outcomes:

- Deal with a geological database and structure.
- Validation of Solid modeling and application.
- Concepts of Block modeling and design.
- Design of Pit, Ramp, and Road design

Module	Contents	Duration
Module1	<ul style="list-style-type: none"> • Overview, Workflow, Geological database concepts, setting up of work directory, Setting Work directory, the concept of String, point, and segments. • DTM surfaces • Concepts of DTM, Displaying the DTM, Triangles in DTM, Application of DTM's sections, Contouring (by DTM's, and by Strings), Contouring by triangulation method. 	10 hours
Module2	<ul style="list-style-type: none"> • Geological Database • Create user define fields and tables, Concepts and structure of the geological database, Creating geological database, Importing data into a geological database (from CSV files), Displaying drill holes from the database with collar, assay, and geology data. 	10 hours
Module3	<ul style="list-style-type: none"> • Block Modelling • Concepts of block modelling, Concepts of constraints and attributes · Partial percentage and assign value function in the block model, Displaying block models and colourcoding, Estimation of grades, Creating a report from block models. • Pit and miscellaneous Design • Pit design concept, Basic input parameters for pit design, Creating a pit design with different tools, Road and Ramp design. 	10 hours
TOTAL		30 hours

Anita Patra



Dr. Anita Patra, Registrar, CUTM

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Convener

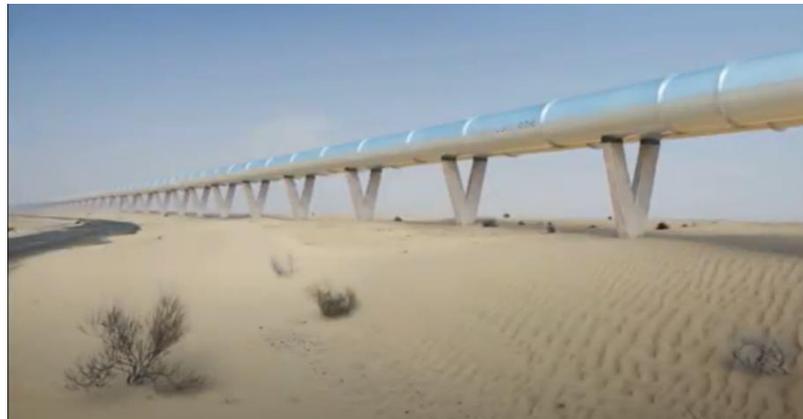
REPORT ON MINES DESIGN USING SURPAC

Total number of participants: 53

Academic year: 2018-19

Date:21.08.2019

The major focus of the programme was to make aware of basic components in mine design software through exposure to the validation of Geological modelling. The participants were made aware of String, DTM, Geological database and geological Drill hole database, Block modelling, Road and Ramp design.



Virtual Demonstration on Mining on 21.08.2019

The programme was very successful as the participants were able to deal with a geological database and structure. The learning outcomes from the programme include:

- Validation of Solid modelling and application.

- Concepts of Block modelling and design.
- Design of Pit, Ramp, and Road design

The programme was based on hands-on experience as the project was a part of the programme. The participants were able gain practical experience through the programme. The participants were able to know block modelling design, road design, solid modelling and application through its practical examples by this programme.

Anita Patra 

Dr. Anita Patra, Registrar, CUTM


Convenor 



List of Participants

Name of Event: Mines Design using Surpac

Organized by: Centurion University of Technology and Management

Date: 21 August 2019

Event Description:

This Mines Design Using Surpass webinar was organized in the year of 2019. Which Deal with geological database and its Structure.

List of Participants:

S.No.	Name	Reg. No.	Presence/Absent
1	LAXMI NARAYAN DAS	180301160001	Present
2	SK MD ARSHAD ALI	180301160002	Present
3	SUJIT KUMAR ROUT	180301160003	Present
4	SANYASH CHANDRA BHAGAT	180301160004	Present
5	SIBASUNDAR MIRDA	180301160005	Present
6	UJJWAL KUMAR PRASAD	180301160006	Present
7	PRABHU PRASAD DAS	180301160007	Present
8	ASHIS KUMAR SAMAL	180301160008	Present
9	PRITIRANJAN PATTANAİK	180301160009	Present
10	MD OLİD İLİYAS	180301160010	Present
11	ABHİSEKH PATRA	180301160011	Absent
12	SOUMYARANJAN SAHU	180301160012	Present
13	SOUMYA RANJAN DAS	180301160013	Present
14	RAKESH SWAIN	180301160014	Present
15	D. SHİRDİ SAGAR	180301160015	Present
16	SURYA KANTA ROUT	180301160016	Present
17	CHİNMAYA SAHU	180301160017	Present
18	JAGABANDHU SAHU	180301160018	Present
19	SAUGAT KUMAR SHAW	180301160020	Present
20	SUMONTA GARADA	180301160021	Present
21	BİSHWAJİT ROUT	180301160022	Present
22	SOUMYA RANJAN PRADHAN	180301160023	Present
23	SUBRAT SAHU	180301160024	Present
24	ANSHUMAN PANDA	180301160025	Present
25	PRAKASH CHANDRA MAHATO	180301160026	Present
26	SOUNG SAMPURNA SWAIN	180301160027	Absent
27	PATİTAPABAN MOHANTY	180301160028	Present
28	ANSUMAN SADANGI	180301160029	Present
29	AKASH KUMAR SINGH	180301160030	Present
30	B. PAVAN KALYAN	180301160031	Present

31	CHINMAYA KUMAR BALIARSINGH	180301160032	Present
32	RASHMIRANJAN ROUT	180301160033	Present
33	CHHATRA PAL	180301160034	Present
34	SHAILESH HESSA	180301160035	Absent
35	SAI SWAGAT BEHERA	180301160036	Present
36	MD JAWED AKHTAR	180301160037	Present
37	DIBYAJYOTI KAR	180301160039	Present
38	LALATENDU ROUT	180301160040	Present
39	SASWAT SATWIK SAHOO	180301160041	Present
40	DEEPAK SAHOO	180301160042	Present
41	SUBHAM BARIK	180301160043	Present
42	PREMCHAND MURMU	180301160044	Present
43	SURESH BISWAL	180301160045	Present
44	SHUBHAM CHAKRABORTY	180301161047	Present
45	B JYOTI PRAKASH	180301161048	Present
46	RISHIKESH MOHANTY	180301161049	Present
47	JAGANNATH GOPE	180301161050	Present
48	KASIM KHAN	180301161051	Present
49	SAHIL DASTAGIR MULLA	180301161052	Present
50	SOMERIK SEN	180301161053	Present
51	DEBANJAN SEN	180301161054	Present
52	RAMESH BASKEY	180301161055	Present
53	ANUBHAV KUMAR	180301190001	Present

Anita Patra



Dr. Anita Patra, Registrar, CUTM

H. S. S.



Convenor