



Subharti Institute of Technology and Engineering
Swami Vivekanand Subharti University, Meerut
(Approved by AICTE)

Subhartipuram, NH-58 Delhi-Haridwar Bypass Road, Meerut-250005 (U.P.)
Ph.: 0121-2439157, Ext. 2222, 2221, Fax: 0121-2439108
E-mail: principal.site@gmail.com, principal.engg@gmail.com, Website: www.subharti.org



VALUE ADDED COURSES

SESSION : 2017-18

COURSE NAME: CREO

COURSE CODE: ET-VA-10

3. BROCHURE

SWAMI VIVEKANAND SUBHARTI UNIVERSITY
Subharti Institute of technology and Engineering

Information Brochure:
Creo Modeling software
is widely used in the
industries for its versatility
and user-friendliness.
Every Students should make
their hands dirty and clean
before entry to any industry.

Course: Creo 3.0
Eligibility: All B Tech
mechanical pursuing
students
Benefits: Certificate
will be distributed
to each successful
candidate
Course fee: 50/-
Registration date: 04/03/18 onward
Contact: Er.Suraj
+917302682045

www.subharti.org

Suraj





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4. REGISTRATION FORM:

ABOUT HFSS SOFTWARE
Changing a product design and exploring new ideas is a technical challenge, especially when developing complex systems with many interdependent components. Typically, this process involves manual backup of models to folders, repeatedly closing and cleaning the PTC Creo Parametric session, and manually revisiting and reviewing massive iterations until making a decision. Design Exploration helps to streamline the process of evaluating new designs and deciding on changes to the design. In PTC Creo Parametric, open a model. To start exploring new ideas click File ▶ Manage Session ▶ Design Exploration session ▶ Start to open a Design Exploration session and then in the Name box, type a name for the session. This is where all your exploration ideas are stored. A snapshot of your PTC Creo Parametric session content is saved to the checkpoint Premodified. You can now start to experiment with your design without risking the original models. As you make changes, you can add checkpoints.

Modeling of manufacturing parts -
Shaft, Spring, Combustion Chamber
Gears
part Design- Assembly of gears,
Assembly of bevel gears with shaft.
Stereotype in Creo: Setting the drawing
sheet format & size, Creating Views
for models: Full view, Half view, Partial
& broken view

COURSE OBJECTIVE

- To impart fundamental knowledge to students in the latest technological topics on Computer Aided Design.
- To create congenial environment that promotes learning, growth and imparts ability to work with inter-disciplinary groups in professional industry.
- To broaden and deepens their capabilities in analytical and experimental research methods.
- To provides guidance to students for their choices in research and professional career outlook and to encourage students to take up research.

Course Content

- Introduction to CREO
- Part Design in CREO
- mechanical CREO

Course Duration
20 hours

SUBHARTI INSTITUTE OF TECHNOLOGY
AND ENGINEERING, SWAMI VIVEKANAND
SUBHARTI UNIVERSITY
NH-58, Delhi-Haridwar Bypass Road
Subhartipuram, Meerut, Uttar Pradesh 250005

VALUE ADDED COURSE
ON
Creo 3.0
Organized By
Department of mechanical engineering
4th March 2018-3rd May 2018—
REGISTRATION FORM

1. Name of Participant: _____
|
2. Department: _____
3. Year & Sem: _____
4. Phone Number: _____
5. Email: _____

I undertake to abide by the rules and regulations of the competition imposed by the organizing Department and will participate with utmost discipline for the same.

Date _____ Signature of Applicant _____

Milind





SUBHARTI INSTITUTE OF TECHNOLOGY & ENGINEERING

(College established in 2005 & Approved by AICTE)

0121-2439043/52, Fax: 0121-2439067, E-mail: engineering@subharti.org, Web: www.engineering.subharti.org

A constituent college of

SWAMI VIVEKANAND SUBHARTI UNIVERSITY

(Established under U.P. Govt. Act no. 29 of 2008 and approved under section 2(f) of UGC Act 1956)

Ref: SITE/ME/VA/2017/1/ i

Department of Mechanical Engineering

Dated: 03-11-2017

NOTICE

The Department of ME starts a value added course on "CREO". For interested students which will provide them the opportunity to enhance their knowledge in the field of CAD/CAM technology. The proposed course will be open only for ME students and the students will be enrolled on first come first serve basis. The course will be provided to the student with a cost of Rs.500/- only. This course will be coordinated by Er. Gajendra Assistant professor, Department of ME.

Important Dates:

- Last date for receipt of application- 8th Nov, 2017
- Last date for acceptance application- 10th Nov, 2017

CC

- Principal
- Department of ME

ECL

- Registration Form


Registrar
Swami Vivekanand
Subharti University
MEERUT


HOD (ME)

SWAMI VIVEKANAND SUBHARTI UNIVERSITY, MEERUT

DEPARTMENT OF MECHANICAL ENGINEERING

VALUE ADDED COURSE

TITLE NAME: CREO

CONTACT HOUR: L: 3 T: 1

Course Objective

On CADD Center will help you to ace the associated features of Creo:

- **Product Design:** Using Creo Elements/Pro, designer will be able to generate complete digital representation of any product designs. Also, using this tool designer will be able to integrate other design disciplines like industrial & standard pipe work and further collaborative development.
- **Analysis:** Creo Elements/Pro covers thermal, dynamic, static and fatigue finite constituent analysis along with other designing tools to for the development of any product. These tool also includes human factors, manufacturing tolerance, mould flow and design optimization.
- **Surface Modeling:** Creo provides good surface modeling capabilities, using commands like Boundary blend and Sweep designer can easily create surface models. It also helps designer to create more capabilities to designer by providing advance options like Style (In-eractive Surface Design Extension - ISDX) and Freestyle for creating complex models with ease.
- **Manufacturing:** With regards to single data source principle, designer gets rich set of manufacturing environment tools for tool designing and simulated CNC machining and output.

MODULE	PARTICULAR	CONTACT HOUR
1	Introduction to CREO: Definition and Company ,Need and Comparison with other software,Modules, Working Directory , Sketcher Module: Line,Circle ,Rectangle,Dimension ,Mouse Function ,Pan, Zoom, Rotate, Remaining Tools of Sketcher : Fillet ,Text ,Spline, Point, Coordinate ,Arc . Trim. Constraints Mirror, Rotate, Copy, Scale,Display- Dimension, Grid, Constraint (On/Off)	4
2	Revolve Feature : Plane ,Axis Line ,Angle setting for revolve , Datum Features : Plane,Offset ,Axis to axis ,Axis to point ,Axis to tangent ,Tangent to tangent ,Tangent to point,Through 3 points ,Through edge with some angle from a surface ,Axis datum,Point datum ,Coordinate datum. Editing features : Round ,Shell ,Chamfer Editing features , Rib ,Draft ,Hole,	4
3	Part Module-Sketched Based Feature : ,Extrude Feature ,Plane Setting ,Depth,etting ,Solid and Surface.Cut Feature ,Thickness in Sketch.	4
4	Pattern feature; Dimension pattern,Direction pattern ,Axis pattern , Pattern feature; Fill ,Table. Tweak Features ; Sweep ,Protrusion ,Thin protrusion,Cut ,Thin cut Helical Sweep ; Protrusion ,Cut Blend ; Parallel protrusion ,Rotational protrusion ,Swept Blend,Boundary Blend ,Variable Section Sweep ,Warp tool. Advance tools : Toroidal Bend ,Spinal bend ,Flatten quilt ,Bend Solid ,Blend Section to Surface ,Blend between Surfaces	4

Course Outcome

Upon successful completion of this course, it is expected that:

- Student will have seamless data sharing ability; they can easily design entire process, from concept design work to manufacturing the final product.
- Student will have the ease of late stage change accommodation.
- Student can automatically do associative manufacturing and service deliverables generation.
- Student will be able to add references to sketches.
- Student can add manufacturing businesses transition into model-based enterprises.
- Student will have enough skills to increase productivity, do better concept design, increase engineering & manufacturing capabilities, do better simulation and additive manufacturing.

REFERENCE BOOKS

1. Gaurav Verma(2017) Creo Parametric 4.0 Black Book Paperback, Cadcamcae Works; 2nd ed. Edition
2. Theodore Wildi(2013) Electrical Machines, Drives and Power Systems Paperback, Publications Pearson Education; 6th edition.
3. Mastering CAD/CAM by Ibrahim Zaid Tata Mc grawHill
4. Creo parametric by Sham Tickoo

Additional Learning Source

1. <https://community.ptc.com/t5/3D-Part-Assembly-Design/Creo-Parametric-Material-Files-Library/td-p/36587>
2. http://support.ptc.com/help/creo/creo_pma/usascii/index.html#page/simulate/simulate/analysis/analysis/reference/about_anal_studies.html



Registrar
Swami Vivekanand
Subharti University
MEERUT

REPORT OF COMPLETION

CREO

We are highly grateful to Prof. (Dr.) Bikas Prasad, principal, Subharti institute of technology and engineering Meerut for providing permission to conduct the fifteen days value added course in the Mechanical engineering department. **CREO** training is successfully completed by the students in the institute. Following are the outcomes that the students have learned during the training.

CREO is powerful software which is a combination of various designing tools. It is popularly used by many leading manufacturing companies across the globe. It was designed by PTC (Parametric Technology Corporation). CREO works with combination of various applications like Creo Parametric, Creo Simulate, Creo Directand Creo Layout.

Every CREO application serves unique purpose of product development. Hence one CREO software can handle every aspect of product design like concept development, designing and analysis. It also supports communication with clients, manufacturers or technical publication.

The constant guidance and encouragement received from Principal, SITE has been of great help in carrying out the training and is acknowledged with reverential thanks.


Registrar
Swami Vivekanand
Subharti University
MEERUT


CO-ORDINATOR


HOD (ME)





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VALUE ADDED COURSES

SESSION : 2017-18



COURSE NAME: CREO

COURSE CODE: ET-VA-10

LIST OF STUDENTS

S. NO.	ENROLLMENT ID	STUDENT NAME
1.	1201730788	SHIVAM VERMA
2.	1501010000620	IMRAN KHAN
3.	1401078803577	ROHIT
4.	1501010000587	GURNAMAN SINGH
5.	1501010000588	MAHBUB ALAM
6.	1501010000589	PRAJWAL SINGH
7.	1501010000590	MURAD ANSARI
8.	1501010000604	SHIVAM KUMAR
9.	1501010000612	SUMIT KUMAR
10.	1501010000617	SHUBHAM RAJ
11.	1601010001264	AMAN ANSARI
12.	1601010002853	HRISHIKESH
13.	1601010000204	AMRENDRA PRATAP SINGH
14.	1601010000215	ANUP KUMAR SHARMA
15.	1601010000226	AVINASH KUMAR


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Subharti University
MEERUT

SUBHARTI INSTITUTE OF TECHNOLOGY AND ENGINEERING

SWAMI VIVEKANAND SUBHARTI UNIVERSITY, MEERUT

Mechanical Engineering Department

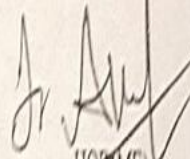
Attendance for Value Added Courses : CREO

Course Name: CREO

SESSION: 2017-18

S. NO.	STUDENT NAME	ENROLLMENT ID	Year/ Semester	Days															
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	Shivam Verma	1201730788		P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
2	Imran Khan	1501010000620		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3	Rohit	1401078803577		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	Gurnaman Singh	1501010000587		P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
5	Mahbub Alam	1501010000588		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6	Prajwal Singh	1501010000589		P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
7	Murad Ansari	1501010000590		P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
8	Shivam Kumar	1501010000604		P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
9	Sumit Kumar	1501010000612		P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
10	Shubham Raj	1501010000617		P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
11	Aman Ansari	1501010001264		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	Hrishikesh	1501010002853		P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
13	Amrendra Pratap Singh	1501010000204		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A
14	Anup Kumar Sharma	1501010000215		P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P
15	Avinash Kumar	1501010000226		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P


Course Co-ordinator


HOD(ME)




CERTIFICATE OF TRAINING

This Certificate is Presented to

ROHIT

For Successfully Completing "CREO"
As the Part of Value aided Course Organized by Mechanical Engineering Department
During 01 DEC 2017 to 20 DEC 2017.


Mr. Manoj Kumar Attri
Course Coordinator


Er. D.P. Singh
HOD ME Department


Prof. (Dr.) Bikas Prasad
Principal




CERTIFICATE OF TRAINING

This Certificate is Presented to

SHIVAM KUMAR

For Successfully Completing "CREO"
As the Part of Value aided Course Organized by Mechanical Engineering Department
During 01 DEC 2017 to 20 DEC 2017.


Mr. Manoj Kumar Attri
Course Coordinator


Er. D.P. Singh
HOD ME Department


Prof. (Dr.) Bikas Prasad
Principal


Registrar
Swami Vivekanand
Subharti University
MEERUT