

**S<sub>2</sub> ME – COMPUTER AIDED MACHINE DRAWING LABORATORY - 3 Hrs /Week**

The following instruments / books etc are mandatory for the all the machine drawing classes.

1. Text book - Machine Drawing - N.D BHATT only

2. A4 note book

3. Scale set, pencil set, eraser, sharpener, compass, divider, set squares, calculator, etc

*Sketch the respective drawing in a A4 note book as specified on each date for entering the class*

**TEACHING PLAN – July 2024 to November 2024**

Date (Wednesday batch)	Dg No.	Class room drawing	No.	Assignment
<b>MANUAL DRAWING</b>				
26-07-24		Introduction to machine drawing and Introduction to AutoCAD		AUTO CAD 2D TUTORIAL <a href="https://www.youtube.com/watch?v=00R0uP5T8LU">https://www.youtube.com/watch?v=00R0uP5T8LU</a> <a href="https://www.youtube.com/watch?v=QzRr-V7Gn3U&amp;list=PL4490u3200">https://www.youtube.com/watch?v=QzRr-V7Gn3U&amp;list=PL4490u3200</a> <a href="https://www.youtube.com/watch?v=TebramrIL">https://www.youtube.com/watch?v=TebramrIL</a> Practice drawing: autocad.com/shorts/2L-cad-exercise-1
02-08-24	M1	Hexagonal headed bolt with hexagonal nut: Fig. 8.15 (Page No: 144)	MA1	Screw threads: Fig. 7.1 to 7.24 (Page No: 126-135)
09-08-24	M2	Knuckle joint: Fig. 9.18 (Page No: 169)	MA2	Foundation bolts: Fig. 8.44, 8.45, 8.46, 8.47 (Page No: 155-157) Surface roughness: Fig. 18.9, Table 18.11, 18.12 (Page No: 303, 304)
16-08-24	C1	Knuckle joint: Fig. 9.18 (Page No: 169) <a href="https://www.youtube.com/watch?v=3NNMTErA7e8">https://www.youtube.com/watch?v=3NNMTErA7e8</a>	CA1	Cotter joint with sleeve: Fig. 9.14 (Page No: 167) <a href="https://www.youtube.com/watch?v=4Ql-pICwPvQ">https://www.youtube.com/watch?v=4Ql-pICwPvQ</a>
23-08-24	M3	Oldham's coupling: Fig. 14.9 (Page No: 240)	MA3	Screw fastenings: Fig. 8.1, 8.18, 8.21, 8.33, 8.34, 8.35, 8.37 & 8.43 (Page No: 137-155)
30-08-24	C2	Oldham's coupling: Fig. 14.9 (Page No: 240) <a href="https://www.youtube.com/watch?v=YkqR0cY_JPs&amp;t=168s">https://www.youtube.com/watch?v=YkqR0cY_JPs&amp;t=168s</a>	CA2	Universal joint: Fig. 14.8 (Page No: 239) <a href="https://www.youtube.com/watch?v=wnMSLbZqwnY">https://www.youtube.com/watch?v=wnMSLbZqwnY</a>
06-09-24		Internal Test 1		
13-09-24	M4	Screw Jack (P I Varghese D. 14)	MA4	Riveting: Fig. 12.2 to 12.10 (Page No. 210-214) Welding: Fig. 12.17 to 12.25 (Page No. 218-220)
27-09-24	C3	Screw Jack (P I Varghese D. 17) <a href="https://www.youtube.com/watch?v=fYJaJhZvIKS&amp;t=542s">https://www.youtube.com/watch?v=fYJaJhZvIKS&amp;t=542s</a>	CA3	I.C. engine connecting rod (P I Varghese D. 28) <a href="https://www.youtube.com/watch?v=fBQUF0LZX0E">https://www.youtube.com/watch?v=fBQUF0LZX0E</a>
04-10-24	M5	Stuffing box (P I Varghese D. 02)	MA5	Fits & Tolerance: Fig. 18.4, 18.7, Table 18.9, Problems 18.2 & 18.3 (Page No: 294-306)
11-10-24	C4	Stuffing box (P I Varghese D. 02) <a href="https://www.youtube.com/watch?v=RO-OGcOb4yk">https://www.youtube.com/watch?v=RO-OGcOb4yk</a>	CA4	Lathe tail stock (P I Varghese D. 12(a)) <a href="https://www.youtube.com/watch?v=2u6QDubUFA">https://www.youtube.com/watch?v=2u6QDubUFA</a>
18-10-24	C5	Plummer block: Fig. 13.4 (Page No: 224) <a href="https://www.youtube.com/watch?v=PLK3b1oaE6Q">https://www.youtube.com/watch?v=PLK3b1oaE6Q</a>	CA5	Ramsbottom safety valve: Fig. 11.2 (Page No: 195) <a href="https://www.youtube.com/watch?v=VXmVWf8FE0">https://www.youtube.com/watch?v=VXmVWf8FE0</a> <a href="https://www.youtube.com/watch?v=uaYXmVWf8FE0">https://www.youtube.com/watch?v=uaYXmVWf8FE0</a>
25-10-24		Internal Test 2		

# Computer Aided Machine Drawing Laboratory

**O García**



## **Computer Aided Machine Drawing Laboratory:**

*Computer Aided Machine Drawing Laboratory (Lab Manual)* Na Vikraman, 2020-06-25 This book has been written for BE B Tech students of All University with latest syllabus for ECE EEE CSE IT Bio Medical Mech Civil Departments also it is very useful for Diploma Arts Science Students The basic aim of this book is to provide a basic knowledge in Computer Aided Machine Drawing Laboratory Program for engineering students of degree diploma AMIE courses and a useful reference for these preparing for competitive examinations All Experiments have excellent output results All the concepts are explained in a simple clear and complete manner to achieve progressive learning Each Programs is well supported with the necessary illustration practical output explanations *Resources in Education* ,1999 **CNC SIMPLIFIED, Lab Manual** Arthur Gill Peter Smid Steve Krar, Stephen F. Krar, Arthur Gill, Peter Smid, 2000 *Cross Reality and Data Science in Engineering* Michael E. Auer, Dominik May, 2020-08-20 Today online technologies are at the core of most fields of engineering and society as a whole This book discusses the fundamentals applications and lessons learned in the field of online and remote engineering virtual instrumentation and other related technologies like Cross Reality Data Science Big Data Internet of Things Industrial Internet of Things Industry 4 0 Cyber Security and M2M Smart Objects Since the first Remote Engineering and Virtual Instrumentation REV conference in 2004 the event has focused on the use of the Internet for engineering tasks as well as the related opportunities and challenges In a globally connected world interest in online collaboration teleworking remote services and other digital working environments is rapidly increasing In this context the REV conferences discuss fundamentals applications and experiences in the field of Online and Remote Engineering as well as Virtual Instrumentation Furthermore the conferences focus on guidelines and new concepts for engineering education in higher and vocational education institutions including emerging technologies in learning MOOCs MOOLs and open resources This book presents the proceedings of REV2020 on Cross Reality and Data Science in Engineering which was held as the 17th in series of annual events It was organized in cooperation with the Engineering Education Transformations Institute and the Georgia Informatics Institutes for Research and Education and was held at the College of Engineering at the University of Georgia in Athens GA USA from February 26 to 28 2020 *Engineering Drawing & Graphics Using Autocad, 3rd Edition* Jeyapooan T., The study of engineering drawing builds the foundation of analytical capabilities for solving a wide variety of engineering problems and has real time applications in all branches of engineering Student friendly lucid and comprehensive this book adopts step by step instructions to explain and solve problems A major highlight of this book is that all the drawings are prepared using the latest AutoCAD software *Resources in Education* ,1996 **IEEE Transactions on Electronic Computers** ,1963 **Datamation** ,1963 **SME Technical Paper** Society of Manufacturing Engineers, 2003 **Paper** ,1991 *Government Reports Announcements & Index* ,1988 **Winter Annual Meeting** American Society of Mechanical Engineers, 1989 **Proceedings of the 39th Conference on Remote Systems Technology** ,1992 *Unizulu* ,1992

*Journal of Mechanisms, Transmissions, and Automation in Design* ,1984      *Inventory of Approved and Projected Programs* Charlie Klein,1999      **Aerospace Engineering Education During the First Century of Flight** Barnes Warnock McCormick, Conrad F. Newberry, Eric Jumper, 2004 On 17 December 1903 at Kitty Hawk NC the Wright brothers succeeded in achieving controlled flight in a heavier than air machine This feat was accomplished by them only after meticulous experiments and a study of the work of others before them like Sir George Cayley Otto Lilienthal and Samuel Langley The first evidence of the academic community becoming interested in human flight is found in 1883 when Professor J J Montgomery of Santa Clara College conducted a series of glider tests Seven years later in 1890 Octave Chanute presented a number of lectures to students of Sibley College Cornell University entitled Aerial Navigation This book is a collection of papers solicited from U S universities or institutions with a history of programs in Aerospace Aeronautical engineering There are 69 institutions covered in the 71 chapters This collection of papers represents an authoritative story of the development of educational programs in the nation that were devoted to human flight Most of these programs are still in existence but there are a few papers covering the history of programs that are no longer in operation documented in Part I as well as the rapid expansion of educational programs relating to aeronautical engineering that took place in the 1940s Part II is devoted to the four schools that were pioneers in establishing formal programs Part III describes the activities of the Guggenheim Foundation that spurred much of the development of programs in aeronautical engineering Part IV covers the 48 colleges and universities that were formally established in the mid 1930s to the present The military institutions are grouped together in the Part V and Part VI presents the histories of those programs that evolved from proprietary institutions      Textile Technology Digest ,2001      *AIAA Aerospace Sciences Meeting and Exhibit, 42nd* ,2004      **The Murray Resource Directory and Career Guide to HBCUs** ,1996 The complete guide to historically black colleges universities

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## Computer Aided Machine Drawing Laboratory Introduction

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book in the Bloodlines series by Richelle Mead. It is the second in the series to be told from dual perspectives. Silver Shadows (Bloodlines, #5) by Richelle Mead Jul 29, 2014 — Engrossing plot involving a "re-education camp" with similarities to real-life "de-gaying camps." Well-written action scenes, swoony romance, ... Silver Shadows (Book 5) | Vampire Academy Series Wiki Silver Shadows, the fifth book in Richelle Mead's spin-off series Bloodlines, was released on the July 29, 2014. The book continues with the narrators from ... Review: Silver Shadows by Richelle Mead - Heart Full of Books Apr 11, 2015 — Silver Shadows by Richelle Mead Genre: Paranormal, Romance Published by: Razor Bill Pages: 420. Format: e-Book Rating Silver Shadows (Bloodlines Series #5) by Richelle Mead ... About the Author. Richelle Mead is the author of the international #1 bestselling Vampire Academy series, its spinoff series, Bloodlines, and the Age of X ... Silver Shadows by Richelle Mead - Audiobook Listen to the Silver Shadows audiobook by Richelle Mead, narrated by Alden Ford & Emily Shaffer. Sydney Sage is an Alchemist, one of a group of humans who ... Silver Shadows by Richelle Mead - Kat Reviews Mar 17, 2016 — Poor Sydney Sage is taken by her own people, and shown what happens to those who break the rules. Sydney is put into re-education, and is taught ... Silver Shadows by Richelle Mead: 9781595146328 Their worst fears now a chilling reality, Sydney and Adrian face their darkest hour in this heart-pounding fifth installment in the New York Times bestselling ... Bloodlines: Silver Shadows (book 5) by Richelle Mead Jul 29, 2014 — Sydney Sage is an Alchemist, one of a group of humans who dabble in magic and serve to bridge the worlds of humans and vampires. Honda Civic 2007 Armrest Lock Repairing - YouTube center armrest latch broke Sep 7, 2022 — Thanks for the good tips. I actually got it fixed by drilling a hole into the plastic piece for small screw, which I then was able to drill into ... Broken Latch on Center Console Armrest Jun 18, 2020 — This just happened to my 2016 civic too! Basically the middle spring came out and I've tried to get the spring under the latch and snap it back ... 2007 honda civic center console latch BROKEN. Oct 27, 2013 — Use needle nosed pliers on the drivers side of the pin. It should slide right out. Along the way it will pop the spring that lifts the arm rest ... Center Console Lid Latch for Select Honda Civic - ... EASY TO INSTALL: Replace the Broken Part in a Matter of Minutes for a Secure & Tight Fit. INCLUDES: One (1) Heat and Impact Resistant Aftermarket Armrest Cover ... 08 Civic center console help (latch) Aug 5, 2014 — I found the piece and glued it back in place. But I cannot seem to understand how the spring is set up for the latch. One piece obviously goes ... Broken center console lid : r/civic So I broke the center console lid on my 22 Civic SI been looking everywhere for a part number so I can get it a replacement or if not ... 2016 Center Console Latch Button Broke Nov 6, 2018 — I just went to raise it, and it popped out in 3 piece..latch, broken latch tab, and spring. Has anyone else had that particular piece break? Used 2002 Porsche 911 Turbo for Sale Near Me Used 2002 Porsche 911 Turbo Coupe ... \$1,323/mo est. fair value. \$4,160 above. Used 2002 Porsche 911 Carrera Turbo Coupe 2D See pricing for the Used 2002 Porsche 911 Carrera Turbo Coupe 2D. Get KBB Fair Purchase Price, MSRP, and dealer invoice price for the 2002 Porsche 911 ... Used 2002 Porsche 911 for Sale Near Me 2002 Porsche 911. Carrera Convertible ... ORIGINAL MSRP \$77,600 \* BASALT BLACK

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