



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

(An Autonomous Institution)

[Sponsored by Lavu Educational Society, Affiliated to JNTUH & Approved by AICTE, New Delhi]
Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301. Phone: 96529 10002/3



Department of Mechanical Engineering (Others)

2nd BoS Meeting on 19th August 2025

AGENDA

Item No.	Agenda Item
1.0	Review and Confirmation of Items
1.1	Review and conformation of the Minutes of Meeting of the 1 st BOS Meeting held on 19 th December 2024.
1.2	Review of the VR 25 regulations.
1.3	Review and conformation of I B.Tech I & II Semester Course Structure.
2.0	Approval Items
2.1	Approval of Syllabus for I B.Tech I & II Semester.


Chairman - BOS
(Dr. A. Ramesh)



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Department of Mechanical Engineering (Others)

2nd BoS Meeting on 19th August 2025

Members Present:

S. No	Name of the Member	Designation	Organization	Role	Sign
1	Dr. A.Ramesh	Associate Professor	VMTW, Hyderabad.	BOS Chairman	
2	Dr. B. Anjaneya Prasad	Sr. Professor, Dept. of ME	JNTUH, UCESTH Hyderabad	(Member) JNTUH Nominee	
3	Dr. Suri Srinivas	Asst. Professor, Dept. of ME	MVSR, Hyderabad	Member (Academician)	
4	Dr. N. V. Srinivasulu	Professor, Department of ME	CBIT, Hyderabad	Member (Academician)	
5	Mr. Kraveenthara Kamal	Founder & Director	Maker Global, Hyderabad.	Member (Academician)	
6	Mrs.T. Rajitha	Assistant Professor	VMTW, Hyderabad	Member	
7	Dr. Ch. Dilip Shyam Prakash	Assistant Professor	VMTW, Hyderabad	Member	
8	Mrs. V. Hema	Assistant Professor	VMTW, Hyderabad	Member	
9	Mr. B. Bhasker	Assistant Professor	VMTW, Hyderabad	Member	
10	Dr. R Sridhar	Associate Professor & HOD-BSH	VMTW, Hyderabad.	Special Invitee	

MINUTES BOOK

Vignan's Institute of Management & Technology for Women (An Autonomous Institutions & Accredited by NBA & NAAC)

Minutes of the 2nd Board of Studies (BoS) meeting held on 19th August 2025, 12.00PM at
HOD'S Chamber, VMTW

The Quorum (minimum 40%) was satisfied.

The following members were present:

1. Dr. A.Ramesh
2. Dr. B. Anjaneya Prasad
3. Dr. Suri Srinivas
4. Dr. N. V. Srinivasulu
5. Mr. Kraveenthara Kamal
6. Mrs. T. Rajitha
7. Dr. Ch. Dilip Shyam Prakash
8. Mrs. V. Hema
9. Mr. B. Bhasker
10. Dr. R Sridhar

The Chairman welcomed all the members to the meeting of the Board of Studies.

Proceedings of the meeting of the Board of Studies

1.0 Review and Confirmation of Items.

1.1 Review and confirmation of the Minutes of Meeting of the 1st BOS Meeting held on 19th December 2024.

The Chairman-BOS present the Minutes of Meeting of the 1st BOS Meeting held on 19th December 2024.

The Board reviewed and confirmed the Minutes of the Meeting of the 1st BOS Meeting held on 19th December 2024.

1.2 Review of the VR 25 regulations.

The Chairman-BOS present the VR 25 regulations.

The Board reviewed and noted.

1.3 Review and conformation of I B.Tech I & II Semester Course Structure.

The Chairman-BOS present the proposed Course Structure (Annexure -1) to the members.

The Board has reviewed and confirmed the Course Structure.

Minutes of the Board of Studies (BOS) meeting held on Tuesday, 19th August 2025

2.0 Approval Items

2.1 Approval of Syllabus for I B.Tech I & II Semester.

The Chairman-BOS presented the Syllabus (Annexure – II, III, IV & V) to the members.

Theory Subject - **Engineering Drawing and Computer Aided Drafting –**

I. B.Tech – I Semester –

Common to CSE (AIML), CSE (DS), IT & ECE

Laboratory - **Engineering Workshop – I. B.Tech – I Semester –**

CSE

Theory Subject - **Engineering Drawing and Computer Aided Drafting –**

CSE

Laboratory - **Engineering Workshop Lab – I. B.Tech – I Semester –**

Common to CSE (AIML), CSE (DS), IT & ECE

The Board has approved the above syllabi (Annexure - II, III, IV & V).

3.0 Any other item with the permission of the Chair

The members are suggested:

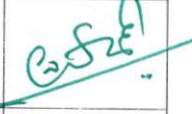
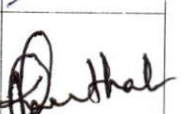
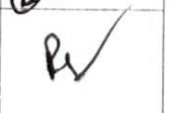
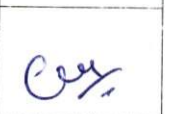
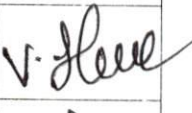
- Integration of 3D Printing in the Engineering Workshop Lab.
- Incorporation of CAD Tools in Engineering Drawing.
- Embedding Design Concepts to Foster Creativity and Problem-Solving.

The Board suggested the Chairperson, maintain the Academic Quality, Update the syllabus to maintain the Standards of Institution.


Chairman - BOS
(Dr. A. Ramesh)

Department of Mechanical Engineering (Others)

Minutes of the 2nd Board of Studies (BoS) meeting held on 19th August 2025, 12.00PM at
HOD'S Chamber, VMTW

S.No.	Name	Designation	Organization	Position in BoS	Signature
1	Dr. A.Ramesh	Associate Professor	VMTW, Hyderabad.	BOS Chairman	
2	Dr. B. Anjaneya Prasad	Sr. Professor, Dept. of ME	JNTUH, UCESTH Hyderabad	(Member) JNTUH Nominee	
3	Dr. Suri Srinivas	Asst. Professor, Dept. of ME	MVSR, Hyderabad	Member (Academician)	
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7	Dr. Ch. Dilip Shyam Prakash	Assistant Professor	VMTW, Hyderabad	Member	
8	Mrs. V. Hema	Assistant Professor	VMTW, Hyderabad	Member	
9	Mr. B. Bhasker	Assistant Professor	VMTW, Hyderabad	Member	
10	Dr. R Sridhar	Associate Professor & HOD-BSH	VMTW, Hyderabad.	Special Invitee	

B.Tech.

L T P C

I Year - I Semester

2 0 2 3

ENGINEERING DRAWING AND COMPUTER AIDED DRAFTING

(Common to CSE(AIML), CSE(DS), IT & ECE)

Course Objectives:

1. To introduce the fundamentals of engineering drawing and projection systems.
2. To develop skills in constructing orthographic, isometric, and sectional views.
3. To train students in interpreting and creating technical drawings using CAD tools.
4. To familiarize students with dimensioning standards and drafting conventions.
5. To bridge manual drafting techniques with computer-aided drafting practices.

Course Outcomes: At the end of the course, the student will be able to:

- Understand and apply the principles of orthographic and isometric projections.
- Create sectional views and dimensioned drawings using BIS standards.
- Use CAD software to generate 2D engineering drawings.
- Visualize and construct solid models from 2D views.
- Interpret and produce engineering drawings of mechanical components and assemblies.
- Demonstrate drafting skills for practical and industrial applications.

UNIT-I: Introduction to Engineering Graphics (Conventional)

Principles of Engineering Graphics and their Significance, Geometrical Constructions, Scales, Plain and Diagonal, Conic Sections including the Rectangular Hyperbola, General method only. Cycloid, Epicycloid and Hypocycloid.

UNIT-II: Orthographic Projections (Conventional and Computer Aided)

Principles of Orthographic Projections, Conventions, Projections of Points and Lines, Projections of Plane regular geometric figures. Auxiliary Planes. Computer aided orthographic projections, points, lines and planes. Introduction to Computer aided drafting, views, commands and conics.

UNIT-III: Projections of Regular Solids (Conventional and Computer Aided)

Auxiliary Views, Sections or Sectional views of Right Regular Solids, Prism, Cylinder, Pyramid, Cone, Auxiliary views, Computer aided projections of solids, sectional views.

UNIT-IV: Development of Surfaces (Conventional)

Prism, Cylinder, Pyramid and Cone.

UNIT-V: Isometric Projections (Conventional and Computer Aided)

Principles of Isometric Projection, Isometric Scale, Isometric Views, Conventions, Isometric Views of Lines, Plane Figures, Simple and Compound Solids, Isometric Projection of objects having non-isometric lines. Isometric Projection of Spherical Parts. Conversion of Isometric Views to Orthographic Views and Vice-versa, Conventions. Conversion of orthographic projection into isometric view.

Note:

1. The End Semester Examination will be in conventional mode.
2. CIE — I will be in conventional mode.
3. CIE — II will be using Computer.

Text Books:

1. Engineering Drawing, N.D. Bhatt, Charotar, 54th Edition, 2023.
2. Engineering Drawing and Graphics Using AutoCAD, T. Jeyapoovan and Vikas, S. Chand and Company Ltd., 3rd Edition, 2010.

1) Parth 2) CSE 3) SSM 4) h
 5) Parth 6) lv 7) Qw 8) V. H 9) (B)
 10) SSM

Reference Books:

1. Engineering Drawing, Basant Agrawal and C.M. Agrawal, McGraw Hill, 3rd Edition, 2019.
2. Engineering Graphics and Design, John Wiley and Sons Inc., 3rd Edition, 2020.
3. Engineering Drawing, M. B. Shah and B.C. Rane, Pearson, 2nd Edition, 2009.
4. Engineering Drawing, N. S. Parthasarathy and Vela Murali, Oxford, 18th Edition, 2015.
5. Computer Aided Engineering Drawing, K. Balaveera Reddy, CBS Publishers, 2nd Edition, 2015.

1, ~~AP~~ 2, ~~WSE~~ 3, ~~S. S. Rane~~ 4, ~~N. S. Parthasarathy~~ 5, ~~Parthasarathy~~
6, ~~RV~~ 7, ~~CV~~ 8, ~~V. S. Rane~~ 9, ~~(B)~~ 10, ~~RV~~

B.Tech.

L T P C

I Year - I Semester

0 0 2 1

ENGINEERING WORKSHOP
(CSE)**Course Objectives:**

1. To introduce students to basic manufacturing processes and workshop practices.
2. To provide hands-on training in carpentry, fitting, welding, sheet metal, and machining.
3. To develop skills in using hand tools and measuring instruments.
4. To enhance safety awareness and proper handling of workshop equipment.
5. To build a foundational understanding of industrial production and fabrication.

Course Outcomes: At the end of the course, the student will be able to:

1. Understand the basic manufacturing processes and operations.
2. Use hand tools and equipment safely and efficiently.
3. Perform basic operations in carpentry, fitting, welding, sheet metal work, and machining.
4. Read and interpret workshop drawings.
5. Develop teamwork, time management, and quality awareness in a workshop environment.

1. TRADES FOR EXERCISES: (At least two exercises from each trade)

- i. Carpentry: T-Lap Joint, Dovetail Joint, Mortise and Tenon Joint
- ii. Fitting: V-Fit, Dovetail Fit and Semi-circular Fit
- iii. Tin Smithy: Square Tin, Rectangular Tray and Conical Funnel
- iv. Foundry: Preparation of Green Sand Mould using Single Piece and Split Pattern
- v. Welding Practice: Arc Welding and Gas Welding
- vi. House Wiring: Parallel and Series, Two-way Switch and Tube Light
- vii. Black Smithy: Round to Square, Fan Hook and S-Hook

2. TRADES FOR DEMONSTRATION AND EXPOSURE: Plumbing, Machine Shop, Metal Cutting (Water Plasma), Power Tools in Construction and Wood Working**TEXT BOOKS:**

1. Workshop Practice, B. L. Juneja, Cengage Learning India, 1st Edition, 2015.
2. Workshop Practice Manual, K. Venkata Reddy, BS Publication, 6th Edition, Reprint 2025.

REFERENCE BOOK:

1. Workshop Manual, K. Venugopal, Anuradha Publications, 2012th Edition.

1, Aravind 2, CSE 3, S. Suresh 4, M. H. 5, P. R. S.
6, SV 7, Cey 8, V. J. S. 9, (B) 10, GLR

B.Tech.

I Year - II Semester

L	T	P	C
2	0	2	3

ENGINEERING DRAWING AND COMPUTER AIDED DRAFTING (CSE)

Course Objectives:

1. To introduce the fundamentals of engineering drawing and projection systems.
2. To develop skills in constructing orthographic, isometric, and sectional views.
3. To train students in interpreting and creating technical drawings using CAD tools.
4. To familiarize students with dimensioning standards and drafting conventions.
5. To bridge manual drafting techniques with computer-aided drafting practices.

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1, ~~ABR~~ 2, C.S.D. 3, S.S.M.M. 4, M.H. 5, Parthasarathy

6, P.V. 7, C.S.D. 8, V. Sree 9, (K) 10, E.G.V.

B.Tech.

L T P C

I Year - II Semester

0 0 2 1

ENGINEERING WORKSHOP

(Common to CSE(AIML), CSE(DS), IT & ECE)

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1. To introduce students to basic manufacturing processes and workshop practices.
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6, PR 7, PR 8, V. Sheela 9, PR 10, PR