REPORT ON FIRST BOARD OF STUDIES (BOS) MEETING

Program: B.Tech.- ENGINEERING DESIGN

Date: 23.12.2023

Venue : Board Room, GM University Building

Report On First Board of Studies (BoS) Meeting

PROGRAM: B.TECH.- ENGINEERING DESIGN

1. Proposal, Approval and Budget
2. Academic Expert Members Invitation, Consents, Appreciation Letters
3. Proceedings of the Minutes of Meeting
4. Photo Galary
5. Curriculum Structure, Scheme, Presentation Details

GM UNIVERSITY
P. B. Road, Davanagere, Karnataka - 577 006
Toll Free No.: 1800 123 7099, Ph: +91 93640-99720 /721
info@gmu.ac.in www.gmu.ac.in

Program: B.Tech. in "Engineering Design"

Board of Studies (BoS): Proceedings of the Meeting

The meeting of the BOS of the Engineering Design Program was held on 23.12.2023 at 11.00am. The meeting was held at Board Room, Second Floor, University Building, GM University Campus, Davanagere -577006.

Agenda of the Meeting: To review and approve the new B. Tech in Engineering Design undergraduate Program curriculum structure and syllabus to be implemented with effective from the academic year 2024-2025

Dr. H D Maheshappa, Pro Vice Chancellor, GM University, chaired the meeting. Dr. G. M. Patil, Dean, Faculty of Engineering & Technology welcomed all the members to the first Board of Studies (BoS) meeting. At the outset, he informed the External Expert Academic Members about the academic activities and newly introduced courses in GM University.

List of Members who were Present during the Meeting.

Name of the Person	Signature
Dr. H D Maheshappa Pro Vice Chancellor, GM University, Davanagere – 577006	23/12/23
Dr. G M Patil Dean, Faculty of Engineering & Technology GM University, Davanagere – 577006	23/12/2023
Dr. Praveen J Director, School of Engineering, GM University, Davanagere	26/12/23.
Dr. Srinivasa C V Professor & Program Head, GM University, Davanagere	23/12/2023
External Expert Academic Member **Dr. J Shivakumar** Principal and Director, Jain College of Engineering, Belagavi E-mail: principal@jainbgm.in	23-12-2023
External Expert Academic Member **Dr. Anand M Shivapuji** Senior Research Scientist, Center for Sustainable Technologies, Indian Institute of Science, Bengaluru, Email: anandms@iisc.ac.in	
Dr. Bharath K N Professor, Dept. of Mech. Engg., GM University, Davanagere	K.N.B
Dr. Basavarajappa D N Asso. Prof., Dept. of Mech. Engg., GM University, Davanagere	23/12/23
Mr. Mallikarjuna M S Asst. Prof. Dept. of Mech. Engg., GM University, Davanagere	23/12
Mr. Sandeep S H Asst. Prof. Dept. of Mech. Engg., GM University, Davanagere	Sandeep S.H

GM UNIVERSITY, DAVANGERE - 577006

CASH VOUCHER

PAYABLE TO	Dr. J. Shivakumar Principal & Director, JCE, Belagavi	Date 23.12.2023
Details and Purpose of Expenditure	Board of Studies (BOS) Meeting Program: Engineering Design	Advance Amount in ₹ : —
Expenses Amount:	6000/- (Honorarium + Travelling Allowance)	
Amount in Words:	Six thousand only	

Prepared by:	Reviewed by:	Approved by:

Remarks:	Received by:

GM UNIVERSITY, DAVANGERE - 577006

CASH VOUCHER

PAYABLE TO	Dr. Anand M Shivapuji Senior Research Scientist Center for Sustainable Technologies Indian Institute of Science, Bengaluru	Date 23.12.2023
Details and Purpose of Expenditure:	Board of Studies Meeting Program: Engineering Design	Advance Amount in ₹ : —
Expenses Amount:	6000/- (Honorarium + Travelling Allowance)	
Amount in Words:	Six thousand only	

Prepared by:	Reviewed by:	Approved by:

Remarks:	Received by:

Dr. SRINIVASA C V <srinivasacv@gmit.ac.in>

Invitation for B.Tech, Engineering Design -Board of Studies Meeting

4 messages

Dr. SRINIVASA C V <srinivasacv@gmit.ac.in> Tue, Dec 19, 2023 at 12:51 PM
To: principal@jainbgm.in

We take privilege in inviting you for the Board of Studies Meeting as an External Expert Member to discuss academic matters pertaining to GM University, Davangere. Your suggestions and advice regarding scheme and syllabus will lead us in the right direction

Agenda: Discussion and finalization of the Scheme and Syllabus of B.Tech Engineering Design Program

Venue: Conference Hall in the 2nd Floor of Central Library, GM University Campus.

Date and Time: 23.12.2023 at 11.00 am.

On behalf of the Vice Chancellor Sir, I would like to extend this Invitation to be a member of the Board of Studies.

It will be our privilege to have your consent through a return mail.

Please feel free to contact us, if you want additional information about the meeting.

A draft Copy of the Scheme is attached with this mail for your kind perusal.

Thank you for your cooperation.

Sincerely,

Best Regards

Dr. SRINIVASA C.V. B.E., M.Tech.(Design.Engg.), Ph.D.(Solid Mechanics)
Professor & Head
Department of Mechanical Engineering
GM I.T., Davangere, Karnataka, INDIA-577 006
Mobile: +91 94485 88792/+91 9480363630
Mail: srinivasacv@gmit.ac.in / drchikkol@gmail.com
Telephone and fax numbers:
Office; +918192-233345/77 Extn: 151
Fax: +918192233344

2 attachments

Dr. J Shivakumar-BOS Meeting Inviation Letter.pdf
1335K

GMU - ED - Program Document.pdf
671K

JCE Belagavi J Shivakumar <principal@jainbgm.in> Tue, Dec 19, 2023 at 1:39 PM
To: "Dr. SRINIVASA C V" <srinivasacv@gmit.ac.in>

DearDr.Srinivas,
Thanks for the invitation. I will be attending the meeting.
With regards
Dr.J.Shivakumar

[Quoted text hidden]

[Quoted text hidden]

--

Dr. J. Shivakumar

Ph.D. (IIT KGP), MIE, MISTE, MISTAM

Principal & Director,

Jain College of Engineering (JCE), Belagavi

Ph.: +91 831 2411192, Mob.: +91 80857 89651

Website: www.jce.ac.in

Vision :To be a university as a resource of solutions to diverse challenges of society by nurturing innovation, research & entrepreneurship through value based education

Mission : 1. Providing work culture that facilitates effective teaching-learning process and lifelong learning skills. 2. Promoting innovation, collaboration and leadership through best practices. 3.Fostering industry-institute interaction resulting in entrepreneurship skills and employment opportunities.

Core Values : 1. Accountability 2. Continuous learning 3. Competency 4. Teamwork 5. Holistic development 6. Social responsibility

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Dr. SRINIVASA C V <srinivasacv@gmit.ac.in> Tue, Dec 19, 2023 at 1:48 PM
To: JCE Belagavi J Shivakumar <principal@jainbgm.in>

Thank you for your response sir

[Quoted text hidden]

Dr. SRINIVASA C V <srinivasacv@gmit.ac.in> Wed, Dec 20, 2023 at 1:47 PM
To: "Dr. Praveen J" <dr.praveenj@gmit.ac.in>

[Quoted text hidden]

2 attachments

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1335K

GMU - ED - Program Document.pdf
671K

Dr. SRINIVASA C V <srinivasacv@gmit.ac.in>

Invitation for B.Tech, Engineering Design -Board of Studies Meeting

4 messages

Dr. SRINIVASA C V <srinivasacv@gmit.ac.in> Tue, Dec 19, 2023 at 12:53 PM
To: Anand M S <anandms@iisc.ac.in>

Dear Sir,

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Agenda: Discussion and finalization of the Scheme and Syllabus of B.Tech Engineering Design Program

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A draft Copy of the Scheme is attached with this mail for your kind perusal.

Thank you for your cooperation.

Sincerely,

Best Regards

Dr. SRINIVASA C.V. B.E., M.Tech.(Design.Engg.), Ph.D.(Solid Mechanics)
Professor & Head
Department of Mechanical Engineering
GM I.T., Davangere, Karnataka, INDIA-577 006
Mobile: +91 94485 88792/+91 9480363630
Mail: srinivasacv@gmit.ac.in / drchikkol@gmail.com
Telephone and fax numbers:
Office; +918192-233345/77 Extn: 151
Fax: +918192233344

4 attachments

- **Dr. Anand M Shivapuji-BOS Meeting Inviation Letter.pdf** 1353K
- **GMU - ED - Program Document.pdf** 671K
- **Dr.AMS-DVG TO-SBC-23-12-2023.pdf** 611K
- **Dr.AMS-Bengaluru to Davangere-22-12-2023[11.30pm-Airavat Club Class].pdf** 326K

Anand M S <anandms@iisc.ac.in> Tue, Dec 19, 2023 at 3:10 PM
To: "Dr. SRINIVASA C V" <srinivasacv@gmit.ac.in>

Dear Prof Srinivasa ... Thanks for inviting me for the board of studies meeting. I will be available for the meeting.

Thanks and Regards
Dr Anand M Shivapuji
Senior Research Scientist
Center for Sustainable Technologies
Indian Institute of Science
Bangalore - 560012
Ph: +91-9901777884
Ph: +91-9448775050

From: Dr. SRINIVASA C V <srinivasacv@gmit.ac.in>
Sent: 19 December 2023 12:53
To: Anand M S <anandms@iisc.ac.in>
Subject: Invitation for B.Tech, Engineering Design -Board of Studies Meeting

External Email

[Quoted text hidden]

Dr. SRINIVASA C V <srinivasacv@gmit.ac.in> Tue, Dec 19, 2023 at 3:35 PM
To: Anand M S <anandms@iisc.ac.in>

Thank you for your response sir
[Quoted text hidden]

Dr. SRINIVASA C V <srinivasacv@gmit.ac.in> Wed, Dec 20, 2023 at 1:47 PM
To: "Dr. Praveen J" <dr.praveenj@gmit.ac.in>

---------- Forwarded message ---------
From: **Dr. SRINIVASA C V** <srinivasacv@gmit.ac.in>
Date: Tue, 19 Dec, 2023, 12:53 pm
Subject: Invitation for B.Tech, Engineering Design -Board of Studies Meeting
To: Anand M S <anandms@iisc.ac.in>

[Quoted text hidden]

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19.12.2023

Dr. J. Shivakumar
Principal and Director
Jain College of Engineering, Belagavi

Dear Sir,

Subject: Request for Board of Studies Meeting

We take privilege in inviting you for the Board of Studies Meeting as an External Expert Member to discuss academic matters pertaining to **GM University, Davangere**. These matters are of significant importance and your suggestions and advice will lead us in the right direction. A meeting will allow us to assess the current situation, exchange ideas, and make informed decisions that will positively impact our GM University.

Agenda: Discussion and finalization of the Scheme and Syllabus of B.Tech Engineering Design Program

Venue: Conference Hall in the 2nd Floor of Central Library, GM University Campus.

Date and Time: 23.12.2023 at 11.00 am.

We look forward to a productive and insightful meeting that will contribute to the continued success of GM University, Davangere.

Please feel free to contact us, if you want additional information about the meeting.

Thank you for your cooperation.

Sincerely,

19.12.2023

[Dr. G M Patil]
Dean, Faculty of Engineering and Technology,
GM University, Davangere-577006.

GM UNIVERSITY

P. B. Road, Davanagere, Karnataka - 577 006
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19.12.2023

Dr. Anand M Shivapuji
Senior Research Scientist
Centre for Sustainable Technologies,
Indian Institute of Science, Bengaluru

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Dear Sir,

Subject: Request for Board of Studies Meeting

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Thank you for your cooperation.

Sincerely,

19/12/2023

[Dr. G M Patil]
Dean, Faculty of Engineering and Technology,
GM University, Davangere-577006.

GM UNIVERSITY

Srishyla Educational Trust ®
GM UNIVERSITY
(Established under the Karnataka State Act No. 19 of 2023)
P. B. Road, Davanagere, Karnataka - 577 006
Toll Free No.: 1800 123 7099, Ph: +91 93640-99720 /721
E-mail: info@gmu.ac.in, Website: www.gmu.ac.in

Date: 23.12.2023

To,

Dr. J. Shivakumar
Principal and Director
Jain College of Engineering, Belagavi

Subject: Appreciation for Your Contribution to" Engineering Design" Program Curriculum Structure and Syllabus Design

Dear Sir,

I am writing to extend my sincere gratitude for your exceptional efforts in reviewing and providing insightful suggestions for the Engineering Design Program curriculum. Your expertise and dedication have played a pivotal role in shaping a curriculum that is not only comprehensive but also reflects the latest advancements and industry best practices.

Your meticulous attention to detail and thoughtful recommendations have significantly enhanced the quality of the curriculum, ensuring that it meets the highest standards of academic excellence. Your commitment to excellence and passion for fostering a rich learning environment have left an indelible mark on the course, and we are truly fortunate to have benefited from your expertise.

The thoroughness of your feedback and the clarity of your insights have been invaluable throughout this process. Your willingness to invest time and effort in ensuring the curriculum's relevance and effectiveness is deeply appreciated.

We look forward to implementing the suggested modifications and are confident that your contributions will greatly enrich the learning experience for our students. Your collaborative spirit and commitment to continuous improvement have set a standard for excellence that will undoubtedly inspire both faculty and students alike.

Once again, thank you for your outstanding contributions. We are grateful for the opportunity to work with someone of your caliber, and we look forward to future collaborations.

With sincere appreciation,

23/12/2023

[Dr. G M Patil]
Dean, Faculty of Engineering & Technology
GM University, Davanagere

Photo Galary

B.Tech. -Engineering Design

PROGRAM DETAILS

Faculty	Engineering and Technology (FET)
School	School of Engineering
Department	Mechanical Engineering
Program	B.Tech., Engineering Design
Dean of Faculty	Dr. G M Patil
Director of School	Dr. Praveen J
Head of Department	Dr. Srinivasa C V

1	**Title of the Award**	B.Tech. in Engineering Design
2	**Modes of Study**	Full Time
3	**Awarding Institution /Body**	GM University
4	**Joint Award**	Not Applicable
5	**Teaching Institution**	Faculty of Engineering and Technology, GM University
6	**Date of Program Specifications**	November -2023
7	**Date of Course Approval by the Academic Council of GMU**	---
8	**Next Review Date:**	---
9	**Program Approving Regulating Body and Date of Approval**	---
10	**Program Accredited Body and Date of Accreditation**	---
11	**Grade Awarded by the Accreditation Body**	---
12	**Program Accreditation Validity**	---
13	**Program Benchmark**	N/A
14	**Program Overview** The Bachelor's program in Engineering Design (B.Tech. Engineering Design) offers a comprehensive and dynamic education for students aspiring to excel in the evolving field of mechanical design and innovation. This program is meticulously designed to provide students with a solid foundation in both theoretical principles and practical applications of mechanical engineering, fostering a deep understanding of creative problem-solving, product design, and emerging technologies in the mechanical design industry.	

	Over the course of four years, students engage in a well-structured curriculum that seamlessly integrates core engineering principles with specialized courses in mechanical design. The program adopts a hands-on approach, incorporating design projects, prototyping, and internships to enable students to apply theoretical knowledge to real-world mechanical design challenges. Key areas of study include mechanical design principles, thermodynamics, materials engineering, computer-aided design (CAD), finite element analysis, and sustainable design practices. Students also gain proficiency in using cutting-edge design tools and software, preparing them for the challenges of the contemporary mechanical design industry. The B.Tech. Engineering Design program aims to equip graduates for diverse career opportunities across various sectors, including automotive design, aerospace, robotics and manufacturing. Potential career paths encompass roles in product design firms, manufacturing industries, research and development, and entrepreneurship within the mechanical engineering domain. The interdisciplinary nature of mechanical engineering design opens avenues to explore diverse design applications, enabling graduates to contribute to advancements in technology, product innovation, and sustainable engineering practices. Continuous learning and staying abreast of the latest industry trends are crucial for graduates to thrive in the rapidly evolving field of mechanical engineering design. The program spans eight semesters, providing a holistic education that prepares students for a successful and impactful career in the dynamic realm of mechanical design and innovation.
15	**Program Educational Objectives (PEOs)** The Bachelor's program in Engineering Design is designed to provide a comprehensive education and foster key competencies in graduates, enabling them to contribute to the dynamic field of mechanical design. The curriculum is structured to cultivate critical thinking, analytical skills, innovation, creativity, and problem-solving abilities. Continuous learning and staying abreast of the latest developments in mechanical engineering design further enhance graduates' professional growth. The Program Educational Objectives include: **PEO-1**: Knowledge and Technical Skills The program aims to provide graduates with a strong foundation in mechanical engineering principles, design methodologies, and emerging technologies. Upon completion, graduates will possess the knowledge and technical skills necessary to conceptualize, design, analyze, and optimize mechanical systems. They will be well-equipped to address real-world challenges in various sectors, including automotive design, aerospace, robotics, and manufacturing.

	PEO-2: Professional Competence and Leadership To instill technical competencies, practical skills, and leadership abilities in graduates, preparing them for success in the field of mechanical engineering design. Graduates will excel in roles within product design firms, manufacturing industries, research and development, and entrepreneurial ventures within the mechanical engineering domain. They will be capable of assuming both technical and leadership positions, contributing to advancements in technology and innovation. **PEO-3**: Holistic Development and Adaptability The program aims to nurture critical thinking, creativity, innovation, collaboration, effective communication, information literacy, flexibility, adaptability, leadership, responsibility, and social and cross-cultural interaction skills. Graduates will demonstrate the ability to adapt to evolving professional environments, ensuring they contribute effectively to their respective fields. The interdisciplinary nature of mechanical engineering design prepares graduates for diverse career trajectories, fostering holistic development and lifelong learning. The overarching goal of the B.Tech. in Engineering Design is to produce graduates who are well-prepared to meet the challenges of the dynamic mechanical design industry, contribute to technological advancements, and make a positive impact on society.
16	**Program Outcomes (POs) (Graduate Attributes)** **PO-1:** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. **PO-2:** Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. **PO-3:** Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations. **PO-4:** Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

	PO-5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. **PO-6:** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. **PO-7:** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. **PO-8:** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. **PO-9:** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. **PO-10:** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. **PO-11:** Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. **PO-12:** Lifelong learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
17	**Program Specific Outcomes (PSOs):** Upon successful completion of the Bachelor's Program in Engineering Design, graduates will possess the capability to: **PSO-1:** Analyse and Address Mechanical Design Challenges Graduates will demonstrate the ability to analyze complex mechanical requirements, identify design challenges, and articulate problems with necessary specifications. Leveraging their understanding of mechanical engineering principles, graduates will deliver innovative design solutions, addressing issues in areas such as product development, manufacturing, and mechanical systems.

	PSO-2: Apply Engineering Design Concepts in Product Development Graduates will be equipped to envision, model, design, simulate, develop, and test mechanical systems and products. They will demonstrate proficiency in addressing technical challenges within the field of mechanical engineering design, utilizing their knowledge of materials, thermodynamics, and computer-aided design (CAD) to create sustainable, efficient, and innovative solutions. **PSO-3**: Conduct and Lead Experimental Validation in Mechanical Design After completing the program, graduates will showcase the capability to strategize, coordinate, and execute experiments for the validation and verification of mechanical designs and systems. They will adeptly use laboratory techniques and software tools for designing and simulating mechanical processes, and will be prepared to assume leadership roles in research projects, effectively managing teams and resources in the context of mechanical engineering. These Program Specific Objectives are tailored to ensure that graduates are not only well-versed in the theoretical aspects of mechanical engineering design but also possess the practical skills and leadership qualities required to make meaningful contributions in the field. The objectives emphasize the application of engineering principles in addressing real-world challenges and the development of innovative solutions in the realm of mechanical design.

18 Programme Structure

A. Definition of Credit:

1 Hr. Lecture (L) per week	1 Credit
2 Hr. Tutorial (T) per week	1 Credit
2 Hr. Practical (P) per week	1 Credit

Sl. No.	Program -Category	Credits
1	Program-Core courses, elective Courses, open electives	130
2	Technical Skills	10 (SDTCD)
3	Life Skills	3(CASP)
4	Innovation and Entrepreneurial Skills	3(CIPI)
5	Environmental Awareness and Community Services	3(SA)
6	Athletics, Sports, Yoga, Gymnasium	3(SA)
7	Cultural & Literary Activities	3(SA)
8	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	2(SA&SP)
9	Placement Training	3(CASP)
	Total	**130+30=160**

18. Courses and Credits:

Semester-1			
Sl. No.	**Course Code**	**Course Title**	**Credits**
1.	UE24ED101	Mathematics for Design Engineers-I	3
2.	UE24ED102	Introduction to Mechanical Engineering Systems	3
3.	UE24ED103	Physical Laws & Engineering System Design	2
4.	UE24ED104	C Programming for Engineering Design	3
5.	UE24ED105	Engineering Graphics	2
6.	SDTCD	Technical Skills	0
7.	CASP	Life Skills	0
8.	CIBI	Innovation and Entrepreneurial Skills	0
9.	SA	Environmental Awareness and Community Services	0
10.	SA	Athletics, Sports, Yoga, Gymnasium	0
11.	SA	Cultural & Literary Activities	0
12.	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	0
13.	CASP	Placement Training	0
Total			**13**

Semester-2			
Sl. No.	**Course Code**	**Course Title**	**Credits**
1.	UE24ED201	Mathematics for Design Engineers-II	3
2.	UE24ED202	Elements of Electrical and Electronics Engineering	3
3.	UE24ED203	Foundation for Engineering Design	2
4.	UE24ED204	Python Programming for Engineering Design	3
5.	UE24ED205	3D Modelling of Engineering Components and Assembly	2
6.	SDTCD	Technical Skills	2
7.	CASP	Life Skills	1
8.	CIBI	Innovation and Entrepreneurial Skills	0
9.	SA	Environmental Awareness and Community Services	1
10.	SA	Athletics, Sports, Yoga, Gymnasium	0
11.	SA	Cultural & Literary Activities	0
12.	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	0
13.	CASP	Placement Training	0
Total			**17**

Semester-3			
Sl. No.	**Course Code**	**Course Title**	**Credits**
1.	UE24ED301	Mathematics for Design Engineers-III	3
2.	UE24ED302	Thermal Engineering	4
3.	UE24ED303	Mechanics of Materials	4
4.	UE24ED304	Engineering Design Codes & Standards	2
5.	UE24ED305	IoT for Design Engineers	2
6.	SDTCD	Technical Skills	2
7.	CASP	Life Skills	1
8.	CIBI	Innovation and Entrepreneurial Skills	0
9.	SA	Environmental Awareness and Community Services	1
10.	SA	Athletics, Sports, Yoga, Gymnasium	1
11.	SA	Cultural & Literary Activities	0
12.	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	0
13.	CASP	Placement Training	1
Total			**21**

Semester-4			
S. No.	**Course Code**	**Course Title**	**Credits**
1.	UE24ED401	Materials for Engineering Design	3
2.	UE24ED402	Fluid Mechanics and Machines	4
3.	UE24ED403	Computer Aided Mechanisms Design & Analysis	3
4.	UE24ED404	Geometric Dimensioning & Tolerancing	2
5.	UE24ED405	Data Visualisation and Analysis	2
6.	SDTCD	Technical Skills	2
7.	CASP	Life Skills	1
8.	CIBI	Innovation and Entrepreneurial Skills	1
9.	SA	Environmental Awareness and Community Services	1
10.	SA	Athletics, Sports, Yoga, Gymnasium	1
11.	SA	Cultural & Literary Activities	1
12.	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	0
13.	CASP	Placement Training	1
Total			**22**

Semester-5			
S. No.	**Course Code**	**Course Title**	**Credits**
1.	UE24ED501	Sensors, Actuators and Measurement	3
2.	UE24ED502	Heat and Mass Transfer	3
3.	UE24ED503	Computer Aided Dynamic Analysis of Machines	3
4.	UE24ED504	Design and Modelling of Mechanical Components-I	4
5.	UE24ED505	Manufacturing Technologies	3
6.	UE24ED506	Professional Elective-I	3
7.	SDTCD	Technical Skills	2
8.	CASP	Life Skills	0
9.	CIBI	Innovation and Entrepreneurial Skills	0
10.	SA	Environmental Awareness and Community Services	0
11.	SA	Athletics, Sports, Yoga, Gymnasium	1
12.	SA	Cultural & Literary Activities	0
13.	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	0
14.	CASP	Placement Training	1
Total			**23**

Semester-6			
S. No.	**Course Code**	**Course Title**	**Credits**
1.	UE24ED601	Control Systems Engineering	3
2.	UE24ED602	Design and Modelling of Thermal Systems	3
3.	UE24ED603	Finite Element Method-I	4
4.	UE24ED604	Design and Modelling of Mechanical Components-II	4
5.	UE24ED605	Additive Manufacturing	2
6.	UE24ED606	Open Elective	2
7.	SDTCD	Technical Skills	2
8.	CASP	Life Skills	0
9.	CIBI	Innovation and Entrepreneurial Skills	1
10.	SA	Environmental Awareness and Community Services	0
11.	SA	Athletics, Sports, Yoga, Gymnasium	0
12.	SA	Cultural & Literary Activities	1
13.	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	0
14.	CASP	Placement Training	0
Total			**22**

Semester-7			
S. No.	**Course Code**	**Course Title**	**Credits**
1.	UE24ED701	Artificial Intelligence for Mechanical Engineers	3
2.	UE24ED702	Design and Modelling of Hydraulic and Pneumatic Systems	3
3.	UE24ED703	Finite Element Method-II	4
4.	UE24ED704	Virtual & Augmented Reality for Engineering Design	3
5.	UE24ED705	Computational Fluid Dynamics	4
6.	UE24ED706	Professional Elective-II	3
7.	SDTCD	Technical Skills	0
8.	CASP	Life Skills	0
9.	CIBI	Innovation and Entrepreneurial Skills	0
10.	SA	Environmental Awareness and Community Services	0
11.	SA	Athletics, Sports, Yoga, Gymnasium	0
12.	SA	Cultural & Literary Activities	1
13.	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	1
14.	CASP	Placement Training	0
Total			**22**

Semester-8			
S. No.	**Course Code**	**Course Title**	**Credits**
1.	UE24ED801	Research Methodology & IPR	2
2.	UE24ED802	Project Management for Design Engineers	2
3.	UE24ED803	Computer Aided Vibration Analysis and Control	3
4.	UE24ED804	Project Work	8
5.	UE24ED805	Internship Programme	3
6.	SDTCD	Technical Skills	0
7.	CASP	Life Skills	0
8.	CIBI	Innovation and Entrepreneurial Skills	1
9.	SA	Environmental Awareness and Community Services	0
10.	SA	Athletics, Sports, Yoga, Gymnasium	0
11.	SA	Cultural & Literary Activities	0
12.	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	1
13.	CASP	Placement Training	0
Total			**20**

List of Electives Offered

Professional Elective 1

1. Entrepreneurship and Innovation
2. Composite Materials and Structures
3. Robotics and Automation

Professional Elective 2

1. Design for Manufacturing and Assembly
2. Aerospace Structures
3. Hybrid Vehicles Systems

Open Electives

1. Technologies for Rural & Urban Development
2. Fuel Cells & Battery Management Systems
3. Technology for Reducing Carbon Footprints

20	**Program Delivery and Program Attainment** The program comprises several courses, each delivered according to the specifications outlined in the course documents. At the conclusion of each course, both course attainments and program attainments are computed. These attainments undergo analysis during Course Assessment Board and Program Assessment Board meetings, leading to recommendations for enhancements in subsequent offerings.
21	**Teaching and Learning Methods** 1. Face to Face Lectures using Audio-Visuals 2. Laboratory work/Field work/Workshop 3. Project Based Learning 4. Problem Based Learning 5. Group Exercises/Assignments 6. Demonstrations 7. Guest Lectures 8. Industry Visit 9. Workshops, Group Discussions, Debates, Presentations 10. Project Work 11. Project Exhibitions 12. Technical Competitions
22	**Attendance** A minimum of 85% attendance is essential to appear for semester end examinations. Condoning of attendance shortage is as per the Academic Regulations of B. Tech. Programme.
23	**Assessment and Grading** 1. Every course will be assessed for a weight of 100 2. There are 4 components: a. Quiz -15% b. Class Tests: 25% c. Application Based open assignments/ Activity/project-based learning/problem-based learning and any such assessment: 20% d. Semester End Examination: 40% 3. Based on total marks scored grade is Awarded. If marks scored is: • 91 and above O (outstanding); 81-90 : A+ (Excellent); 71-80: A (Very Good); 61-70: B+ (Good); 51-60 : B (Above Average); 40 -50: C (Average); below 40: D (Not satisfactory) • If one scores D grade, the candidate is required to re-register for the course (for core courses only, students can exercises their choice in case of electives or open electives –means they can re-register or register for a different elective course) and earn the required credits • **A minimum of overall 40% is required for completion of course by acquiring minimum grade (pass) with a minimum of 40% in each component.** 4. End of each semester –grade card will be issued with SGPA displayed

24	**Award of Degree** Every student registering for the program need to complete a **minimum of 160 credits, completing a minimum of 130 credits in academic courses (Core, elective, open elective) for the award of the degree**. **Award of Degree Certificate:** Students will be issued consolidated grade card with CGPA displayed and GM University Degree Certificate. **Award of Gold Medal:** A student with highest CGPA (Not less than 9.0 on a scale of 10) in the class without getting a D grade in any course over 8 semester and completing the program within the specified period of 4 years (8 semesters) will be awarded Gold Medal.
25	**Student Support for Learning** 1. Course Notes 2. Reference Books in the Library 3. Magazines and Journals 4. Internet Facility 5. Computing Facility 6. Laboratory Facility 7. Workshop Facility 8. Staff Support 9. Lounges for Discussions 10. Any other support that enhances their learning
26	**Quality Control Measures** 1. Review of Course Notes 2. Review of Question Papers and Assignment Questions 3. Student Feedback 4. Moderation of Assessed Work 5. Opportunities for students to see their assessed work 6. Review by external examiners and external examiners reports 7. Staff Student Consultative Committee meetings 8. Student exit feedback 9. Course Assessment Board (CAB) 10. Programme Assessment Board (PAB)

27. **Mapping of POs with Cos.**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Course-1												
CO1												
CO2												
CO3												
CO4												
CO5												
CO6												
Course-2												
CO1												
CO2												
CO3												
CO4												
CO5												
CO6												
Course-2												
CO1												
CO2												
CO3												
CO4												
CO5												
CO6												

GM University

Innovating Minds

Members of Board of Studies

Program: B.Tech. -Engineering Design

G M Lingaraju
Hon'ble Chancellor

Dr. S R Shankapal
Vice Chancellor

Dr. H D Maheshappa
Pro Vice Chancellor

Dr. Sunil Kumar B S
Registrar

University Authorities

Academics

Faculty of Engineering and Technology (FET)
Faculty of Computing and IT (FCIT)
Faculty of Basic and Applied Sciences (FBAS)
Faculty of Commerce and Management (FCM)
Faculty of Legal Studies (FLS)
Faculty of Humanities and Social Sciences (FHSS)
Faculty of Health and Allied Sciences (FHAS)
Faculty of Tourism and Hosprairy (FTH)
Faculty of Architecture, Art and Desien (FAAD)
Faculty of Aer technology and Aen scences (FATS)
Faculty of Education (FED)
GM School of Advanced Studies (GMSAS)
13. GM School of Business (GMBS)

Research

Offering PhD Programs
Setting Up Centres of Excellence
Undertaking Sponsored/Grant Research
Research Publications
Organising Conferences
Publication of In-house Research Bulletin
Organising Prestigious Lectures
IPR and Patents
Organising Funds for New Researchers

GM UNIVERSITY
Innovating Minds

Skill and Vocational Training

School of Vocational Training
School of Digital Technical
Competency Development

Consultancy, Innovation and Entrepreneurship

GM Techno centre- Centre for Technical
Consultancy and IPR& Patents
Centre for Innovation and New Product Ideas
Centre for Business Incubation and

Faculty of Engineering & Technology

School of Computer Science and Technology

1. Computer Science and Engineering
2. Computer Science -AI & ML
3. Information Science and Engineering
4. Computer Science-Data Science
5. Computer Science- Cloud Computing
6. Computer Science- Cyber Security
7. Computer Science-Information security
8. Computer Science-Business System
9. Computer Science-IoT

School of Engineering

1. Electronics and Communication Engineering
2. Electrical and Electronics Engineering
3. Robotics and Automation)
4. Engineering Design
5. Civil Engineering
6. Biotechnology

Dr. Sanjay Pande M B
Director

Dr. G M Patil
Dean

Dr. Praveen J
Director

UG – B.Tech Programs

1	**Title of the Award**	**B.Tech. in Engineering Design**
2	**Mode of Study**	**Full Time**
3	**Awarding Institution /Body**	**GM University**
4	**Joint Award**	**Not Applicable**
5	**Institution**	**Faculty of Engineering and Technology, GM University, Davanagere**
6	**Date of Program Specifications**	**November -2023**

Engineering Design Program for the New-Age

Engineering design is a complex and dynamic process that involves transforming ideas into tangible products that can solve real-world problems. While the entire Engineering industry is getting disrupted by the new Technologies such as Artificial Intelligence and Connected architectures, the implications on Engineering Design are diverse.

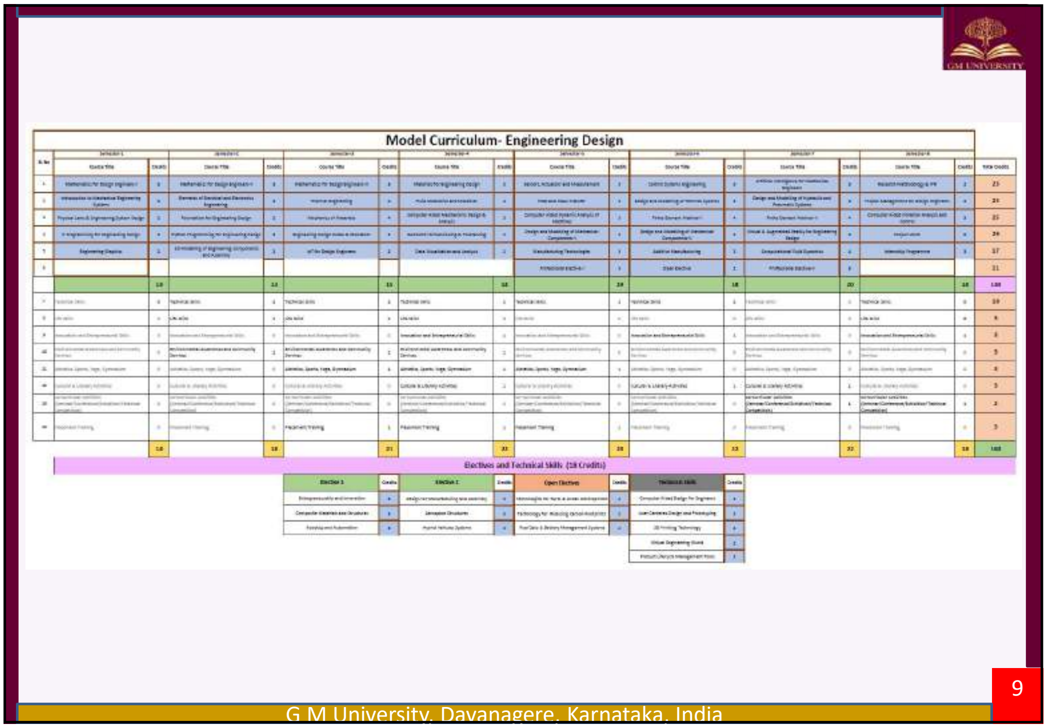
Classical Engineering Design services such as Value Engineering, CAD, CAE simulation and mechatronics need to be looked through a new lens through strong foundations of Engineering Design Principles, Laws, Design Codes and Standards, Computational Tools and a Systematic Process.

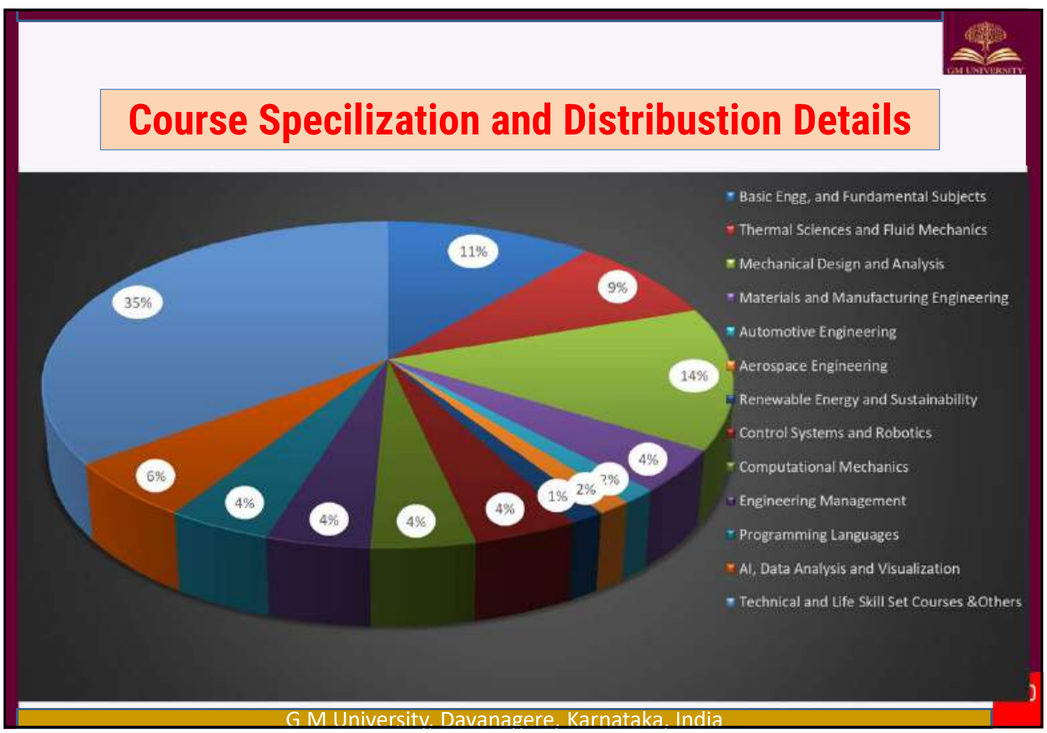
Program Highlights

- Engineering Design at GM University designed to support engineering aspirants and student startups related Engineering Designs.
- The Program promotes a step-by-step approach to the design process, that is essential both for learning and for practical application in various engineering disciplines.
- This program is meticulously designed to provide students with a solid foundation in both theoretical principles and practical applications of mechanical engineering, fostering a deep understanding of creative problem-solving, product design, and emerging technologies in the mechanical design industry.
- Our goal is to support students in engineering design and design driven innovations,

Program Credit Distribution

Sl. No.	Program -Category	Credits
1	Program-core Courses, Elective Courses, Open Electives	130
2	Technical Competency - School of Digital Technical Competency Development	10 (SDTCD)
3	Life Skills-Career Advice and Student Placements	3(CASP)
4	Innovation and Entrepreneurial Skills- Centre for Innovation and New Product Ideas	3(CIPI)
5	Environmental Awareness and Community Services- Student Affairs	3(SA)
6	Athletics, Sports, Yoga, Gymnasium- Student Affairs	3(SA)
7	Cultural & Literary Activities - Student Affairs	3(SA)
8	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition) -	2(SA&SP)
9	Placement Training-Career Advice and Student Placements	3(CASP)
	Total	130+30=160


Model Curriculum- Engineering Design
Electives and Technical Skills (18 Credits)
9
G M University, Davanagere, Karnataka, India


Course Specilization and Distribustion Details
Basic Engg, and Fundamental Subjects
Thermal Sciences and Fluid Mechanics
Mechanical Design and Analysis
Materials and Manufacturing Engineering
Automotive Engineering
Aerospace Engineering
Renewable Energy and Sustainability
Control Systems and Robotics
Computational Mechanics
Engineering Management
Programming Languages
AI, Data Analysis and Visualization
Technical and Life Skill Set Courses &Others
11%
9%
14%
4%
2%
2%
1%
4%
4%
4%
4%
6%
35%
G M University, Davanagere, Karnataka, India

Credit System Details

One Hour Lecture (L) per week	1 Credit
Two Hour Tutorial (T) per week	1 Credit
Two Practical (P) per week	1 Credit

Semester wise Credit Distribution

Semesters	Credits	Total Credits per Year
Semester-1	13	30
Semester-2	17	
Semester-3	21	43
Semester-4	22	
Semester-5	23	45
Semester-6	22	
Semester-7	22	42
Semester-8	20	

1 Credit= 15 Hours of Face to Face Interaction/30 Hours of Practical Work

11

Semester-1			
Sl. No.	Course Code	Course Title	Credits
1	UE24ED101	Mathematics for Design Engineers-I	3
2	UE24ED102	Introduction to Mechanical Engineering Systems	3
3	UE24ED103	Physical Laws & Engineering System Design	2
4	UE24ED104	C Programming for Engineering Design	3
5	UE24ED105	Engineering Graphics	2
6	SDTCD	Technical Skills	0
7	CASP	Life Skills	0
8	CIBI	Innovation and Entrepreneurial Skills	0
9	SA	Environmental Awareness and Community Services	0
10	SA	Athletics, Sports, Yoga, Gymnasium	0
11	SA	Cultural & Literary Activities	0
12	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	0
13	CASP	Placement Training	0
		Total Credits	13

12

Semester-2			
Sl. No.	Course Code	Course Title	Credits
1	UE24ED201	Mathematics for Design Engineers-II	3
2	UE24ED202	Elements of Electrical and Electronics Engineering	3
3	UE24ED203	Foundation for Engineering Design	2
4	UE24ED204	Python Programming for Engineering Design	3
5	UE24ED205	3D Modelling of Engineering Components and Assembly	2
6	SDTCD	Technical Skills	2
7	CASP	Life Skills	1
8	CIBI	Innovation and Entrepreneurial Skills	0
9	SA	Environmental Awareness and Community Services	1
10	SA	Athletics, Sports, Yoga, Gymnasium	0
11	SA	Cultural & Literary Activities	0
12	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	0
13	CASP	Placement Training	0
		Total Credits	17

13

G.M.University, Davanagere-Karnataka-India

Semester-3			
Sl. No.	Course Code	Course Title	Credits
1	UE24ED301	Mathematics for Design Engineers-III	3
2	UE24ED302	Thermal Engineering	4
3	UE24ED303	Mechanics of Materials	4
4	UE24ED304	Engineering Design Codes & Standards	2
5	UE24ED305	IoT for Design Engineers	2
6	SDTCD	Technical Skills	2
7	CASP	Life Skills	1
8	CIBI	Innovation and Entrepreneurial Skills	0
9	SA	Environmental Awareness and Community Services	1
10	SA	Athletics, Sports, Yoga, Gymnasium	1
11	SA	Cultural & Literary Activities	0
12	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	0
13	CASP	Placement Training	1
		Total Credits	17

14

G.M.University, Davanagere-Karnataka-India

Semester-4			
Sl. No.	Course Code	Course Title	Credits
1	UE24ED401	Materials for Engineering Design	3
2	UE24ED402	Fluid Mechanics and Machines	4
3	UE24ED403	Computer Aided Mechanisms Design & Analysis	3
4	UE24ED404	Geometric Dimensioning & Tolerancing	2
5	UE24ED405	Data Visualisation and Analysis	2
6	SDTCD	Technical Skills	2
7	CASP	Life Skills	1
8	CIBI	Innovation and Entrepreneurial Skills	1
9	SA	Environmental Awareness and Community Services	1
10	SA	Athletics, Sports, Yoga, Gymnasium	1
11	SA	Cultural & Literary Activities	1
12	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	0
13	CASP	Placement Training	1
		Total Credits	17

15

Semester-5			
Sl. No.	Course Code	Course Title	Credits
1	UE24ED501	Sensors, Actuators and Measurement	3
2	UE24ED502	Heat and Mass Transfer	3
3	UE24ED503	Computer Aided Dynamic Analysis of Machines	3
4	UE24ED504	Design and Modelling of Mechanical Components-I	4
5	UE24ED505	Manufacturing Technologies	3
6	UE24ED506	Professional Elective-I	3
7	SDTCD	Technical Skills	2
8	CASP	Life Skills	0
9	CIBI	Innovation and Entrepreneurial Skills	0
10	SA	Environmental Awareness and Community Services	0
11	SA	Athletics, Sports, Yoga, Gymnasium	1
12	SA	Cultural & Literary Activities	0
13	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	0
14	CASP	Placement Training	1
		Total Credits	17

16

Semester-6			
Sl. No.	Course Code	Course Title	Credits
1	UE24ED601	Control Systems Engineering	3
2	UE24ED602	Design and Modelling of Thermal Systems	3
3	UE24ED603	Finite Element Method-I	4
4	UE24ED604	Design and Modelling of Mechanical Components-II	4
5	UE24ED605	Additive Manufacturing	2
6	UE24ED606	Open Elective	2
7	SDTCD	Technical Skills	2
8	CASP	Life Skills	0
9	CIBI	Innovation and Entrepreneurial Skills	1
10	SA	Environmental Awareness and Community Services	0
11	SA	Athletics, Sports, Yoga, Gymnasium	0
12	SA	Cultural & Literary Activities	1
13	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	0
14	CASP	Placement Training	0
		Total Credits	17

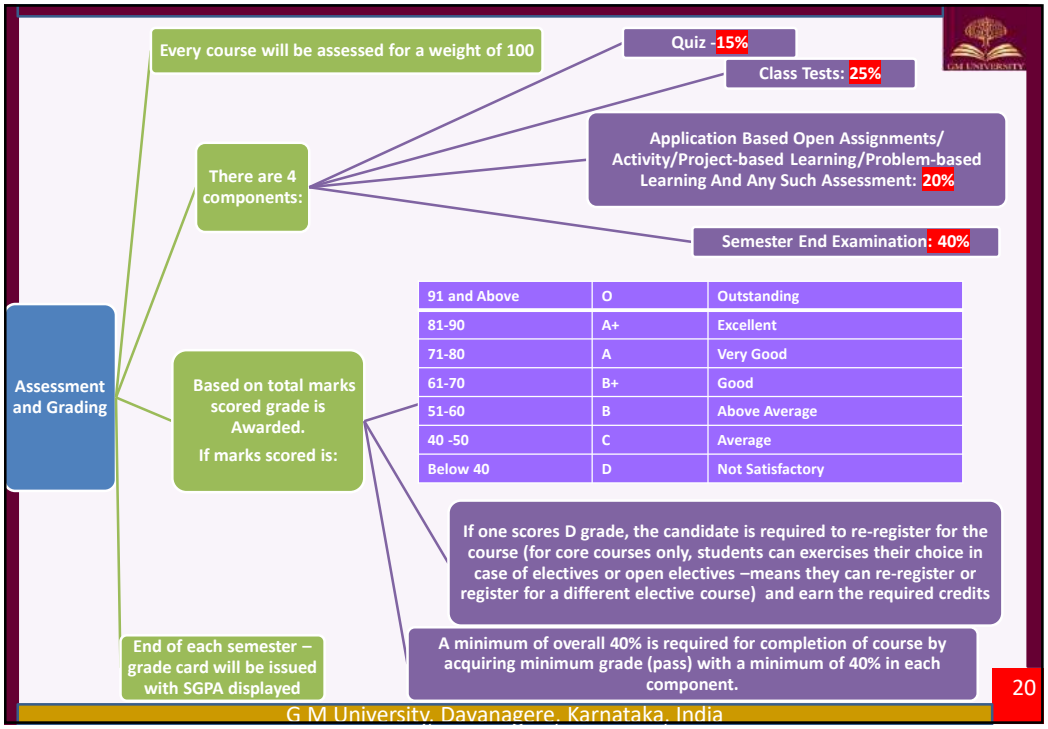
17

Semester-7			
Sl. No.	Course Code	Course Title	Credits
1	UE24ED701	Artificial Intelligence for Mechanical Engineers	3
2	UE24ED702	Design and Modelling of Hydraulic and Pneumatic Systems	3
3	UE24ED703	Finite Element Method-II	4
4	UE24ED704	Virtual & Augmented Reality for Engineering Design	3
5	UE24ED705	Computational Fluid Dynamics	4
6	UE24ED706	Professional Elective-II	3
7	SDTCD	Technical Skills	0
8	CASP	Life Skills	0
9	CIBI	Innovation and Entrepreneurial Skills	0
10	SA	Environmental Awareness and Community Services	0
11	SA	Athletics, Sports, Yoga, Gymnasium	0
12	SA	Cultural & Literary Activities	1
13	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	1
14	CASP	Placement Training	0
		Total Credits	17

18

Semester-8			
Sl. No.	Course Code	Course Title	Credits
1	UE24ED801	Research Methodology & IPR	2
2	UE24ED802	Project Management for Design Engineers	2
3	UE24ED803	Computer Aided Vibration Analysis and Control	3
4	UE24ED804	Project Work	8
5	UE24ED805	Internship Programme	3
6	SDTCD	Technical Skills	0
7	CASP	Life Skills	0
8	CIBI	Innovation and Entrepreneurial Skills	1
9	SA	Environmental Awareness and Community Services	0
10	SA	Athletics, Sports, Yoga, Gymnasium	0
11	SA	Cultural & Literary Activities	0
12	SASP	Co-Curricular Activities (Seminar/Conference/Exhibition/Technical Competition)	1
13	CASP	Placement Training	0
		Total Credits	17

19



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Award of Degree	Award of Degree Certificate	Award of Gold Medal
• Every student registering for the program need to complete a **minimum of 160 credits, completing a minimum of 130 credits in academic courses (Core, Professional Electives & Open Elective) for the award of the degree**.	• **Students will be issued consolidated grade card with CGPA displayed and GM University Degree Certificate.**	• **A student with highest CGPA *(Not less than 9.0 on a scale of 10)* in the class without getting a D grade in any course over 8 semester and completing the program within the specified period of 4 years (8 semesters) will be awarded Gold Medal.**

21

Student Support for Learning

- Course Notes
- Reference Books in the Library
- Magazines and Journals
- Computing Facility
- Internet Facility
- Laboratory Facility
- Workshop Facility
- Staff Support
- Lounges for Discussions
- Any other support that enhances their learning

22

Quality Control Measures

1. Review of Course Notes
2. Review of Question Papers and Assignment Questions
3. Student Feedback
4. Moderation of Assessed Work
5. Opportunities for students to see their assessed work
6. Review by External Examiners & External Examiners Reports
7. Staff Student Consultative Committee Meetings
8. Student Exit Feedback
9. Course Assessment Board (CAB)
10. Programme Assessment Board (PAB)

Program Specific Outcomes (PSOs)

Analyse and Address Mechanical Design Challenges

Graduates will demonstrate the ability to analyze complex mechanical requirements, identify design challenges, and articulate problems with necessary specifications. Leveraging their understanding of mechanical engineering principles, graduates will deliver innovative design solutions, addressing issues in areas such as product development, manufacturing, and mechanical systems.

Apply Engineering Design Concepts in Product Development

Graduates will be equipped to envision, model, design, simulate, develop, and test mechanical systems and products. They will demonstrate proficiency in addressing technical challenges within the field of mechanical engineering design, utilizing their knowledge of materials, thermodynamics, and computer-aided design (CAD) to create sustainable, efficient, and innovative solutions.

Conduct and Lead Experimental Validation in Mechanical Design

After completing the program, graduates will showcase the capability to strategize, coordinate, and execute experiments for the validation and verification of mechanical designs and systems. They will adeptly use laboratory techniques and software tools for designing and simulating mechanical processes, and will be prepared to assume leadership roles in research projects, effectively managing teams and resources in the context of mechanical engineering.

Continued…

These Program Specific Objectives are tailored to ensure that graduates are not only well-versed in the theoretical aspects of mechanical engineering design but also possess the practical skills and leadership qualities required to make meaningful contributions in the field.

The objectives emphasize the application of engineering principles in addressing real-world challenges and the development of innovative solutions in the realm of mechanical design.

Program Educational Objectives (PEOs)

Knowledge and Technical Skills

The program aims to provide graduates with a strong foundation in mechanical engineering principles, design methodologies, and emerging technologies. Upon completion, graduates will possess the knowledge and technical skills necessary to conceptualize, design, analyze, and optimize mechanical systems. They will be well-equipped to address real-world challenges in various sectors, including automotive design, aerospace, robotics, and manufacturing.

Professional Competence and Leadership

To instill technical competencies, practical skills, and leadership abilities in graduates, preparing them for success in the field of mechanical engineering design. Graduates will excel in roles within product design firms, manufacturing industries, research and development, and entrepreneurial ventures within the mechanical engineering domain. They will be capable of assuming both technical and leadership positions, contributing to advancements in technology and innovation.

Holistic Development and Adaptability

The program aims to nurture critical thinking, creativity, innovation, collaboration, effective communication, information literacy, flexibility, adaptability, leadership, responsibility, and social and cross-cultural interaction skills. Graduates will demonstrate the ability to adapt to evolving professional environments, ensuring they contribute effectively to their respective fields. The interdisciplinary nature of mechanical engineering design prepares graduates for diverse career trajectories, fostering holistic development and lifelong learning.

Key Takeaways

The Program offers a unique and powerful way to create innovative, value-driven solutions.

Technology and Computational Tools is a critical component of Engineering Design, and plays a vital role in enabling students to create innovative designs.

The field of engineering design is constantly evolving, with new technologies and approaches emerging all the time.

27

APPEALS

We seek your valuable insights and suggestions.

Your expertise is highly regarded, and we believe that your input will significantly enhance the quality of our proposed curriculum to meet the highest standards

28

Special Thanks to

The Department extend deepest gratitude to Honorable VC Sir for his invaluable contribution for course curriculum design, insights, meticulous attention and inspiration

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