




K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Road, Bangalore-560109.

Faculty Name	Dr. UMASHANKAR M	
Designation	Professor & HEAD , Mechanical Engineering	
Educational Qualification	M.Sc (Engg), Ph.D	
Experience in Years	Teaching: 21 Years Industry : 4 Years	
Areas of Interest	Design, Tribology	
E-mail	umashankarm@ksit.edu.in	

Educational Details

Examination/ Degree	College / University	Year of Passing
UG	M. S. R. I. T / Bangalore University	1996
PG	U. V. C. E / Bangalore University	2006
PhD	V I T University	2021

Publications

Journal Publications:

1. M. Umashankar, K. Annamalai, “**Influence of Nickel Particulate reinforcement on Morphological and Mechanical Properties of ZA-27alloy composites**”, *Solid State Technology*, Volume 63, Issue 2S, 2020, PP. 5617-5632.
2. Adithya Pai U, Akshay, Ankush A Telkar, Ashray Shetty, Umashankar M, “**Proportional Integral Derivative Controller on Boilers Temperature and Flow Control Parameters**”, *International Journal of Pure and Applied Mathematics (IJPAM)*, Volume 119, Issue 14, 2018, PP: 173-177.
3. M. Umashankar, G. S. Santhosh, “**Design of Conical Strainer and Analysis Using FEA**”, *International Journal of Engineering Science Invention (IJESI)*, Volume 7, Issue 2, Version V, February 2018, PP. 61-65.
4. M. Umashankar, Shishir Ganesh S, “**Vertical Takeoff and Landing (VTOL) aircraft using Tiltrotor Mechanism**”, *International Journal on Recent Technologies in Mechanical and Electrical Engineering (IJRMEE)*, Volume 5, Issue 2, Feb 2018, ISSN: 2349-7947, PP: 01 – 04.
5. M. Umashankar, K. Annamalai, “**Damping properties of nickel-added modified Zinc alloys**”, *Journal of Mechanical Engineering and Sciences (JMES)*, Volume 11, Issue 4, Dec 2017, PP: 3217-3226.
6. M. Umashankar, V. Anirudh, KhushalPishey, “**Investigation of Tesla Turbine**”, *International Journal of Latest Technology in Engineering, Management and Applied Sciences (IJLTEMAS)*, Volume 6, Issue 12, Dec 2017, PP: 23-27.

Conference Papers :

1. M. Umashankar, “**Influence of reinforcement on Mechanical Properties of modified ZA alloys**”, *N.M.A.M. Institute of Technology, NITTE* during 23rd-24th May 2019.
2. M. Umashankar, K. Annamalai, “**Investigation of Transition in Sliding Wear Resistance of Nickel based Zinc Alloy**”, *Elsevier, Materials Today: proceedings*, Volume 4 Issue 8, 2017, PP:9141- 9146.
3. M. Umashankar, K. Annamalai, “**Investigation on Ni-modified ZA alloy for Damping properties**”, *Elsevier, Materials Today: proceedings*, Volume 4 Issue 9, 2017, PP: 10134 – 10137.

Google Scholar : <https://scholar.google.com/citations?user=vrdHtsQAAAAJ&hl=en>

Awards

1. **BEST PROJECT OF THE YEAR – 2019-20** from KSCST participated in 43rd Series SPP for the project “**Design and Fabrication of Solid Waste Collector and Water De-Frothing device**”.
2. Project “**Design and construction of an Integrated domestic Organic waste composting device**” Selected for 42nd Series SPP in KSCST.
3. **BEST PROJECT OF THE YEAR - 2017-18** from KSCST participated in 41st Series SPP for the project “**Proportional Integral Derivative Controller on boilers**”.

Online Courses:

1. **E-Quiz on NBA : Level 1** – Completed held by **SAPTHAGIRI COLLEGE OF ENGINEERING**, Bangalore.
2. Coursera - “**Introduction to basic Vibrations**” from **KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY**, by 15th July 2020 with 84.25 %.
3. Coursera – “**Introduction to Digital Manufacturing with Autodesk Fusion 360**” from **AUTODESK**, by 20th July 2020 with 80.94 %.
4. Coursera – “**Introduction to CAD, CAM, and Practical CNC Machining**”, from **AUTODESK**, by 21st July 2020 with 92.5 %.
5. Coursera – “**Autodesk Fusion 360 Integrated CAD/CAM/CAE**”, from **AUTODESK**, by 28th July 2020 with 90.93
6. Coursera – “**Introduction to Engineering Mechanics**”, from **GEORGIA INSTITUTE OF TECHNOLOGY** by 5th Aug 2020 with 86.67 %.
7. Coursera – “**Mechanic of Materials I**”. From **GEORGIA INSTITUTE OF TECHNOLOGY** by 9th Aug 2020 with 86.67 %.
8. Coursera – “**Introduction to Thermodynamics**”, from **UNIVERSITY OF MICHIGAN** by 10th Aug 2020 with 87.76 %.
9. Coursera – “**Introduction to Advanced Vibrations**”, from **KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY** by 12th Aug 2020 with 84.06 %.
10. Coursera – “**Material Processing**”, from **GEORGIA INSTITUTE OF TECHNOLOGY** by 14th Aug 2020 with 92.5 %.
11. Coursera – “**Materials Science**”, from **UNIVERSITY OF CALIFORNIA, DAVIS** by 15th Aug 2020 with 85.78 %.

12. Coursera – “**Introduction to High-Throughput Materials Development**”, from **GEORGIA INSTITUTE OF TECHNOLOGY** by 7th Sept 2020 with 80.5 %.
13. Coursera – “**Mechanics of Materials II: Thin-Walled Pressure Vessels and Torsion**”, from **GEORGIA INSTITUTE OF TECHNOLOGY** by 17th Sept 2020 with 89 %.

Professional Membership

1. **Indian Society for Technical Education (ISTE)**
2. **The Institution of Engineers (IEI)**
3. **Member in University Space Engineering Consortium (UNISEC) – India.**

Events Conducted:

1. One week **ONLINE FDP** on “*Recent Advances & trends in Mechanical Engineering & Material Science*” from 27th July to 31st July 2020.
2. **Co-ordinator** for 16th **Karnataka state level ISTE Student Convention** on “*Smart world through Innovation Future Technology*” held on 22nd February 2020.
3. Three days **FDP** on “*MATLAB and LATEX*”, from 24th-26th July 2019.
4. Three days **FDP** on “*Outcome Based Education - NBA*”, from 17th-19th July 2019.

Events Attended:

1. One Week **AICTE Sponsored Short Term Technical Program** on Recent Advances in Tribology and Surface Engineering: “**Series 4 of 4 – Surface Characterization and treatments in Tribology**” held on 23rd to 28th November 2020 at Saintgits College of Engineering, Kottayam, Kerala.
2. One Week **AICTE Sponsored Short Term Technical Program** on Recent Advances in Tribology and Surface Engineering: “**Series 3 of 4 – Introduction to Special Topics like Nanotribology, Biotribology, Space tribology**” held on 12th to 17th October 2020 at Saintgits College of Engineering, Kottayam, Kerala.
3. One Week **AICTE Sponsored Short Term Technical Program** on Recent Advances in Tribology and Surface Engineering: “**Series 2 of 4 – Tribology of Machine Components and Applied Tribology**” held on 14th to 19th September 2020 at Saintgits College of Engineering, Kottayam, Kerala.
4. One Week **AICTE Sponsored Short Term Technical Program** on Recent Advances in Tribology and Surface Engineering: “**Series 1 of 4 – Introduction to Tribology and Surface Engineering**” held on 17th to 22nd August 2020 at Saintgits College of Engineering, Kottayam, Kerala.
5. One Day **Webinar** on “*The How? And Why? Of Transitioning to Data science for Non IT Professionals*” held on 30th May 2020 at Cambridge Institute of Technology, Bangalore.
6. One Week **ONLINE FDP** on “*Advances in Mechanical Engineering*” held from 11th July 2020 to 15th July 2020 at Jyothy Institute of Technology, Bangalore.
7. 5 Days **ONLINE FDP** on “*Advances and Research in Mechanical Engineering*” held from 20th July 2020 to 24th July 2020 at K. S. School of Engineering and Management, Bangalore.
8. One day **Webinar** on “*Bio-Materials Science and Engineering: A brief introduction & its Future Scope*” held on 22nd July 2020 at S J B Institute of Technology, Bangalore.

9. Two Days **Webinar** on “*Recent Trends in Production Technology*” held from 27th July to 28th July 2020 at East West Institute of Technology, Bangalore.
10. **Grama Swaraja – 2020**, by NSS, **KSIT**, held at Gollahalli, Kankapura Taluk, Ramanagara District, Karnataka from 5th – 11th Feb 2020.
11. **International Seminar** on “*75 Students Satellites Mission 2022*”, held from 4th – 5th September 2019 at NIMHANS Convention Centre, Bangalore.
12. One day **Workshop** on “*New Approach to the revised Assessment & Accreditation of NAAC*” held on 4th January 2019 at Global Academy of Technology, Bangalore.

Contact Details

Name: M. Umashankar

Official Address: # 14, Raghuvanahalli, Kanakapura Main Road, Bangalore – 560 109.

Phone Nos: 080-28435724 Ext 300


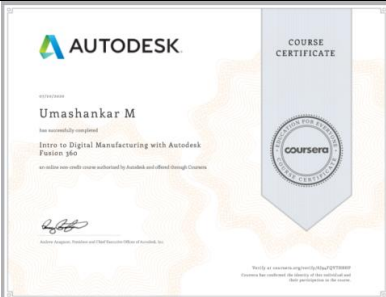
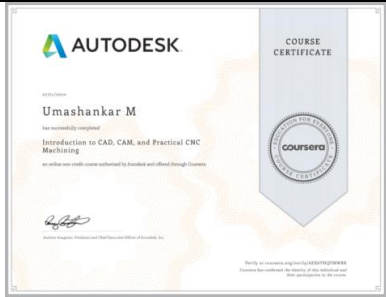
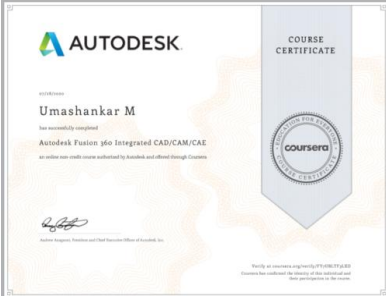
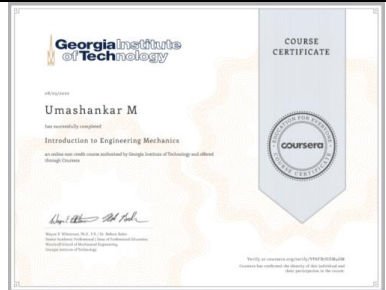
Email : umashankarm@ksit.edu.in





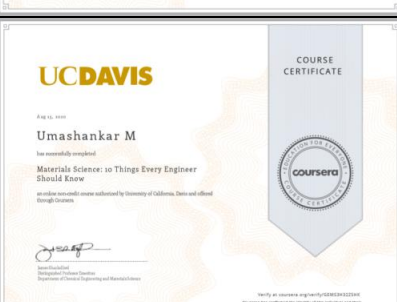
Alternate Email: umashankar.m74@gmail.com

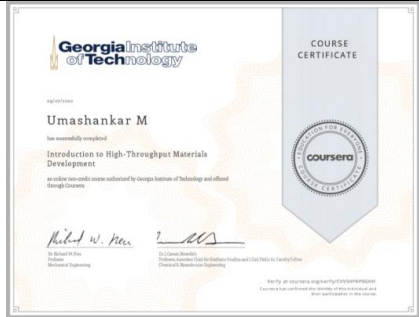

Journal Publications:

Sl. No	Title	Journal Name	Volume, Issue & Page Number
1.	Damping properties of nickel-added modified Zinc alloys	Journal of Mechanical Engineering and Sciences (JMES),	Volume 11, Issue 4, Dec 2017, PP: 3217-3226.
2.	Investigation of Tesla Turbine	International Journal of Latest Technology in Engineering, Management and Applied Sciences (IJLTEMAS)	Volume 6, Issue 12, Dec 2017, PP: 23-27.
3.	Vertical Takeoff and Landing (VTOL) aircraft using Tiltrotor Mechanism,	International Journal on Recent Technologies in Mechanical and Electrical Engineering (IJRMEE)	Volume 5, Issue 2, Feb 2018, ISSN: 2349-7947, PP: 01 – 04.
4.	Design of Conical Strainer and Analysis Using FEA	International Journal of Engineering Science Invention (IJESI)	Volume 7, Issue 2, Version V, February 2018, PP. 61-65.
5.	Proportional Integral Derivative Controller on Boilers Temperature and Flow Control Parameters	International Journal of Pure and Applied Mathematics (IJPAM)	Volume 119, Issue 14, 2018, PP: 173-177.
6.	Influence of Nickel Particulate reinforcement on Morphological and Mechanical Properties of ZA-27alloy composites	Solid State Technology	Volume 63, Issue 2S, 2020, PP. 5617-5632.



ONLINE courses:





Sl No	Course Name	Sponsored By	Completion Date	%	Certificates
1	Introduction to basic Vibrations	KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY	15 th July 2020	84.25	
2	Introduction to Digital Manufacturing with Autodesk Fusion 360	AUTODESK	20 th July 2020	80.94	
3	Introduction to CAD, CAM, and Practical CNC Machining	AUTODESK	21 st July 2020	92.5	
4	Autodesk Fusion 360 Integrated CAD/CAM/CAE	AUTODESK	28 th July 2020	90.93	
5	Introduction to Engineering Mechanics	GEORGIA INSTITUTE OF TECHNOLOGY	5 th Aug 2020	86.67	

6	Mechanic of Materials 1	GEORGIA INSTITUTE OF TECHNOLOGY	9 th Aug 2020	86.67	
7	Introduction to Thermodynamics	University of Michigan	10 th Aug 2020	87.76	
8	Introduction to Advanced Vibrations	KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY	12 th Aug 2020	84.06	
9	Material Processing	GEORGIA INSTITUTE OF TECHNOLOGY	14 th Aug 2020	92.5	
10	Materials Science	University of California, Davis	15 th Aug 2020	85.78	

11	Introduction to High-Throughput Materials Development	GEORGIA INSTITUTE OF TECHNOLOGY	7 th Sept 2020	80.5	
12	Mechanics of Materials II: Thin-Walled Pressure Vessels and Torsion	GEORGIA INSTITUTE OF TECHNOLOGY	17 th Sept 2020	89	

Events attended:

Sl. No.	Name of the conference	Place	Date	Remarks
1	One week AICTED Sponsored short terms Technical program series 4 to 4 "Introduction to Tribology and surface Engineering"	Saintgits College fo Engineering, Kottayam, Kerala	23rd to 28th Nov 2020	
2	One week AICTED Sponsored short terms Technical program series 3 to 4 "Introduction to Tribology and surface Engineering"	Saintgits College fo Engineering, Kottayam, Kerala	12th to 17th Oct 2020	

3	One week AICTED Sponsored short terms Technical program series 2 to 4 "Introduction to Tribology and surface Engineering"	Saintgits College fo Engineering, Kottayam, Kerala	14th to 19th Sep 2020	
4	One week AICTED Sponsored short terms Technical program series 1 to 4 "Introduction to Tribology and surface Engineering"	Saintgits College fo Engineering, Kottayam, Kerala	17th to 22nd Aug 2020	
5	One week FDP on "Recent Advances & Trends in Mechanical Engineering & Materials Science"	KSIT	27th to 31st July 2020	
6	Five Day's FDP on "Advances & Research in Mechanical Engineering"	KSSEM	20th to 24th July 2020	
7	One week FDP on "Advances Mechanical Engineering"	Jyothy Institute of Technology	11th to 15th July 2020	