



Malnad College of Engineering, Hassan

(An Autonomous Institute, Affiliated to V.T.U, Belagavi)

Faculty Biodata

GENERAL INFORMATION AND ACADEMIC BACKGROUND

PART-A

1.	Name(in Block Letters)	Vijayakumar G. Tile
2.	Qualification	B.E., M.Tech. (Thermal Power Engineering)
3.	Date of joining the service at MCE	16-10-2006
4.	Department	Mechanical Engineering
5.	Current Designation & Experience in MCE	Assistant Professor, 18 Years 1 months
6.	Teaching Experience: P.G. (in Years) : U.G. (in Years) :	U.G-18 Years 2 months
Research Experience (in Years)		
7.	a) Total Number of years b) Years spent in M. Phil. / Ph.D. c) Years of Guiding Ph.D. / M. Phil. d) Total No. of papers Published in i. International Journals ii. National Journals iii. Conference Proceedings e) Total No. of Conferences/Seminar/Workshop Attended i. International ii. National iii. State Level	9 years 4 Years Nil 21 04 05 12 4 -
8.	Awards /Prizes/ Honor's / Recognitions	2
9.	Fields of Specialization under the Subject / Discipline	Thermal Power Engineering, Electric Vehicle Technology,
10.	Orientation/Refresher Course/Summer School / Winter School/Workshops attended:	Total 42 Programmes are attended

Details of Training attended /Faculty Improvement/Professional Training/Further Study Undergone

Nature of Programme	Period		Institution	Remarks
	From	To		
1 Week work shop on “Advances in Non Destructive Testing”	11/12/2006	15/12/2006	MCE, Hassan	TEQUIP-I
1 Week work Workshop on “Recent Trends in Alternative Fuels”	08/01/2007	12/01/2007	MCE, Hassan	TEQUIP-I
Three Days workshop on “Pneumatics, Hydraulics & Electro-pneumatics organized by FESTO CONTROL Pvt.Ltd & Department of Mechanical Engineering”	10/09/2007	12/09/2007	MCE, Hassan	TEQUIP-I
One Day Workshop on “IPR,R&D, and Funding Agencies”	09/042008	09/042008	MCE, Hassan	TEQUIP-I
Six Days Workshop on “The Role of Artificial Intelligence in Engineering Applications”	16/062008	21/062008	A.I.T, Chikmagalore	AICTE
Faculty Awareness Camp on Enterpreurship	04/08/2008	06/08/2008	MCE, Hassan	ISTE
Naotechnology A Sustainable Alternative to Environment	19/01/2009	23/01/2009	S.V.N.I.T,Surat	AICTE
One Week Workshop on “Computer Aided Modeling and Analysis Laboratory(CAMAL)”	04/02/2009	08/02/2009	MCE, Hassan	TEQUIP-I
Work/Examination/Stress Management	17/03/2009	17/03/2009	MCE, Hassan	TEQUIP-I
Two Week FDP on “The World Today and Tomorrow The Energy Challenge”		02/07/2011	S.I.T,Tumkur	AICTE

Nature of Programme	Period		Institution	Remarks
	From	To		
	20/06/2011			
Residential Outbound Leadership Camp	21/03/2013	23/03/2013	ISOL,Talent Consultancy, Bangalore	IOSL
Advanced Composites for Aeronautical Applications	06/09/2013	07/09/2013	U.V.C.E, Bangalore	TEQUIP-II
One Week Workshop on “Comprehensive Course On Solar PV System Design, Installation & Troubleshooting”	18/11/2013	22/11/2013	MCE, Hassan	MNRE, Govt of India
Three days “Residential Outbonding Leadership Camp	21-03-2013	23-03-2013	ISOL Talaent consulting private ltd,bangalore	ISOL
“Advanced composites for aeronautical application”	06-09-2013	07-09-2013	UVCE,bangalore	TEQIP-II
Symposium on “Electric and Hybrid Cars”	23/01/2014	23/01/2014	P.E.S.I.T, Bangalore	P.E.S.I.T,
Two Weel FDP on “Technology for Design,Modelling & Production of Composite Structures”	27/01/2014	08/02/2014	G.E.C,Hassan	AICTE
“Formulation modeling and practical applications of operations research”	25-05-2015	06-0602015	MCE,Hassan	AICTE
:National workshop on research methodologies	04-03-2015	04-03-2015	BIT,Bangalore	KSTA
:Emerging Trends in Materials and Manufacturing Technology”	27-02-2017	03-03-2017	MCE,Hassan	IITC
Industry Visit(210 students)	28-02-2017	28-02-2017	IMTEX-2017, Bangalore	TEQIP-II

Nature of Programme	Period		Institution	Remarks
	From	To		
Industry Visit (95 Students)	14-03-2017	17-03-2017	Kadra Hydel Power Plant, Karavar & VRL Logistics, Hubli	TEQIP-II
Industry Visit (52 Students)	25-03-2017	28-03-2017	RTPS, Raichur & Nirma Paints & Chemicals & TB Dam, Hosapat	TEQIP-II
Recent Developments in Renewable Energy Sources and its Applications	12 th -November-2017	25 th November-2017	Ghousia college of Engineering Ramanagar	AICTE
Recent Development in solar and wind energy system for on/off grid applications	09-07-2018	13-07-2018	MCE	TEQIP
Recent Trends in Automotive engineering	25 th June 2018	29 th June 2018	MCE	TEQIP
Total Quality Management	28 th May 2018	1 st June 2018	MCE	TEQIP
Mems and Moems	30 th April 2018	4 th May 2018	MCE	TEQIP
Challenges in Non Conventional Energy Sources	09 th April 2018	13 th April 2018	MCE	TEQIP
Advanced Manufacturing Processing Techniques	12 th February 2018	17 th February 2018	MCE	TEQIP
Recent Development in energy Sources and conversion systems for on/off grid applications	9 th December 2019	14 th December 2019	MCE	AICTE
National Workshop on Thermoelectric Energy Conversion devices and its Applications	28 th December 2019	29 th December 2019	SRI MATA VAISHNO DEVI UNIVERSITY, KATRA	TEQIP-III

Nature of Programme	Period		Institution	Remarks
	From	To		
Recent Development in Advanced composite materials manufacturing and sustainability	10 th Jan 2020	22 Jan 2020	Poojya Doddappa College of Engineering, Gulbarga	AICTE
Light Weight Structures for engineering applications through composite and topology optimization	27 th Jan 2020	07 Feb 2020	Government Engineering College Hassan	AICTE
One week AICTE sponsored Phase 1 of online Short-Term Training Program (STTP) on the title "Creating Smart and Green Society through Advance Technology of Green Energy" Held during 10th – 15th December, 2020 at Malnad College of Engineering, Hassan, Karnataka	10th December, 2020	15th December, 2020	MCE, Hassan	AICTE
One week AICTE sponsored Phase 2 of online Short-Term Training Program (STTP) on the title "Creating Smart and Green Society through Advance Technology of Green Energy" Held during 17th – 22nd December, 2020 at Malnad College of Engineering, Hassan, Karnataka.	17th December, 2020	22th December, 2020	MCE, Hassan	AICTE

PART-B

1. List of Publications:

Sl. No.	Title	Name of the Journal, Vol. No., Year	ISSN/ISBN/Number
1.	"Exergy Analysis and IGCC Plant Technology to Improve the Efficiency and to Reduce the Emission in Thermal Power Plant"	National Conference on Recent Innovations in Engineering and Technology(NCRIET-14) Volume: 03 Special Issue: 03 May-2014 NCRIET-2014	eISSN:2319-1163 pISSN: 2321-7308
2.	" Wall Temperature Analysis of Combustor for producer gas application using CFD"	International Conference on Innovations and Emerging Trends in Mechanical Engineering	eISSN:1317-2163 pISSN: 2321-7308
3.	"CFD Analysis of Internal Combustion RB-33 Kirloskar Engine for Producer Gas Low Energy Fuel Application"	International Conference on Emerging Technologies in Mechanical Engineering(ICEMS)	eISSN:317-2163 pISSN: 2341-7308
4.	Wall Temperature Analysis of Combustor for producer gas application using CFD"	International Conference on Innovations and Emerging Trends in Mechanical Engineering	eISSN:1617-2163 pISSN: 2261-7308
5.	Numerical Analysis of Internal Combustion Engine for producer gas application with moving mesh approach using CFD"	International Conference on Innovations and Emerging Trends in Mechanical Engineering	eISSN:2717-2163 pISSN: 2321-7309
6.	CFD Analysis of Internal Combustion RB-33 Kirloskar Engine for Producer Gas Low Energy Fuel Application"	International Journal of Engineering and Research Technology (IJERT)	eISSN:9617-2163 pISSN: 2321-7459
7.	Solar energy: review of potential green and clean energy for coastal and offshore applications.	International Journal of Engineering and Research Technology (IJERT)	ISSN:0676-4376(print) ISSN 2250-0138(online)
8.	Measurement of thermochemical properties of some metal hydrides-Titanium(Ti),MISCH Metal(Mm) and Lanthanum(La) based alloys a –review.	International Journal of Engineering and Research Technology (IJERT)	
9.	A reviewed thermal energy storage technologies and control approaches for solar cooling	International Journal of Engineering and Research Technology (IJERT)	ISSN:0856-2986(print) ISSN 2250-0138(online)-2015
10.	Design and wall temperature optimization of combustor for low calorific value gases application using numerical analysis	International Journal of Engineering and Research Technology (IJERT)	ISSN (Online): 3319-9753 ISSN (Print) 2847-6710
11.	Analysis of combustion chamber for low energy fuels applications using CFD	International Journal of Engineering and Research Technology (IJERT)	ISSN (Online): 2569-8753 ISSN (Print) 2397-6710
12.	Recent Development of a Compressed air Technology in the vehicles	International Journal of Engineering and Research Technology (IJERT)	ISSN (Online): 2321-8753

			ISSN (Print) 2367-6810
13.	Combustion and Heat Transfer Analysis of gas Fired Heat Exchanger unit using CFD	International Journal of Engineering and Research Technology (IJERT)	ISSN (Online): 2319-8753 ISSN (Print)2647-6810
14.	A Riew of metal hydride based hydrogen energy storage	International Journal of Engineering and Research Technology (IJERT)	ISSN (Online): 2719-8753 ISSN (Print)2347-8710
15.	CFD Analysis of Internal Combustion RB-33 Kirloskar Engine for Producer Gas Low Energy Fuel Application”	International Journal of Engineering and Research Technology (IJERT)	ISSN (Online): 2309-8753 ISSN (Print) 2347-7710
16.	External Aerodynamics Analysis for Fuselage for various angles of attacks and speeds	International Journal of Engineering and Research Technology (IJERT)	ISSN No. (Print) : 0875-8364 ISSN No. (Online) : 2249-3855
17.	Review on exhaust gas heat recovery for IC engine usng refrigeration systems	International Journal of Engineering and Research Technology (IJERT) ICRIET-2016) 7(2): 154-157(2016)	ISSN No. (Print) : 0975-8364 ISSN No. (Online) : 2249-3255
18.	Recent Trends in Nanotechnology and its future scope	International Journal of Engineering and Research Technology (IJERT)	ISSN No. (Print) : 0975-8484 ISSN No. (Online) : 2249-3955
19.	Metal Hydrde based cooling systems with hydrogen as working fluid a review	International Journal of Engineering and Research Technology (IJERT)	ISSN No. (Print) : 0975-8664 ISSN No. (Online) : 2249-3655
20.	“Effect of Solar Green Houses as a Renewable Source of Energy- A Review.	International Journal of Innovative Research in Science,Engineering and Technology	ISSN (Online): 2399-8953 ISSN (Print) 4347-7710
21.	“Design and Fabricatin of pneumatic operated coconut dehusking machine”	International Journal of Innovative Research in Science,Engineering and Technology	ISSN No. (Print) : 0975-9564 ISSN No. (Online) : 2949-3655
22.	“Solar-Hydrogen Fuel Cells Technologies for Sustainable Future-a Review”	International Journal of Innovative Research in Science,Engineering and Technology	ISSN No. (Print) : 0865-8894 ISSN No. (Online) : 2149-3555
23.	“Power Generation in Thermal Power Plant Using Municipal Waste Sources”	International Journal of Innovative Research in Science,Engineering and Technology	ISSN No. (Print) : 0975-8564 ISSN No. (Online) : 2259-3055
24.	“Biofuel Production in India:Potential Prospectus and Technology	International Journal of Innovative Research in Science,Engineering and Technology	ISSN No. (Print) : 0575-7664 ISSN No. (Online) : 2259-3644
25.	“Design and Fabrication of Dehusking machine of Areca nut	International Journal of Innovative Research in Science,Engineering and Technology	ISSN No. (Print) : 0975-8665 ISSN No. (Online) : 2209-3675
26.	“Impact of Wind Energy on Environment”	International Journal of Innovative Research in Science,Engineering and	ISSN No. (Print) : 0975-4564 ISSN No. (Online) :

		Technology	2269-3655
27.	"New Developments in Hydroelectric power plants with water conservation-a Review"	International Journal of Innovative Research in Science, Engineering and Technology.	
28.	External aerodynamic analysis for Fuselage for various angles of attacks and speeds	Special Volume. 02 Issue.01, May-2016	ISSN: 7654-5135

2. **Responsibilities in the Department and Institute / University:** (DAC,DPC, BOS, BOE etc., Institutional Governance responsibilities like, Dean, Chief warden, Warden, HOD's, School/Centre Chairperson, IQAC Coordinator etc.)

Sl.No	Responsibilities
1.	College Level NSS Programme Officer
2.	College Level Scouts and Guides Programme Officer
3.	College Level Women Empowerment Wing Programme Officer
4.	College Level Cultural Coordinator
5.	Department level- Mentoring Coordinator
6.	Department level- Student feedback/Result Analysis Coordinator
7.	Member-GRC
8.	Department level-Placement In charge
9.	Department MEA Coordinator
10.	Department level-Sports/Cultural coordinator
11.	Member-BOS
12.	Member-BOE
13.	Member-Anti ragging committee
14.	NAAC-AQAR Preparation
15.	NBA-AQAR preparation

3. **Details of Teaching Related Activities**

Sl. No.	Academic Year	(B. E/M.Tech)	Course Title
1	2006-07	BE	BTD,ATD,EE,PPE
2	2007-08	BE	BTD,ATD,EE,PPE
3	2008-09	BE	BTD,ATD,EE,PPE
4	2009-10	BE	BTD,ATD,EE,PPE
5	2011-12	BE	BTD,ATD,EE,PPE
6	2012-13	BE	BTD,ATD,EE,PPE
7	2013-14	BE	BTD,ATD,EE,PPE
8	2014-15	BE	BTD,ATD,EE,PPE,HT
9	2015-16	BE	

1.

10	2016-17	BE	BTD,ATD,EE,PPE,HT
11	2017-18	BE	BTD,ATD,EE,PPE,HT
12	2018-19	BE	BTD,ATD,EE,PPE,HT
13	2019-20	BE	BTD,ATD,EE,PPE,HT
14	2020-21	BE	BTD,ATD,,HT
15	2021-22	BE	BTD,ATD,,HT,
16	2022-23	BE	HT,EVT,ATD,UHV,BLE
17	2023-24	BE	HT,EVT,SC

PART-C

Professional Development Activities		
	Membership in profession related committees at state and national level a) At International b) At national level: c) At state :	nil
	Participation in subject associations, conferences, seminars without paper presentation	01
	Participation in short term training courses less than one week duration in educational technology, curriculum development, professional development, Examination reforms, Institutional governance	2
	Membership/participation in State/Central Bodies/Committees on Education, Research and National Development	01
	Publication of articles in newspapers, magazines, or other publications (not covered in category 3); radio talks; television programmes	10
	Invited Expert Talks	Nil

RESEARCH, PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

1. Published Papers in Journals

Sl. No.	Title	Journal with Vol. Year & Page No.	ISSN / ISBN No.	Whether peer reviewed. Impact factor, if any	No. of Co-authors	Whether you are the main author or Guide / mentor
1	"Exergy Anaysis and IGCC Plant Technology to Improve the Efficiency and to Reduce the Emmision in Thermal Power Plant"	Volume: 03 Special Issue: 03 May-2014 NCRIET-2014	eISSN:2319-1163 pISSN: 2321-7308	3.1.	3	1
2	" Wall Temperature Analysis of Combustor for producer gas application using CFD"	Volume: 03 Special Issue: 03 May-2015 NCRIET-2015	eISSN:1317-2163 pISSN: 2321-7308	3.1.	4	1
3	"CFD Analysis of Internal Combustion RB-33 Kirloskar Engine for Producer Gas Low Energy Fuel Application"	Volume: 02 Special Issue: 03 May-2016 NCRIET-2016	eISSN:317-2163 pISSN: 2341-7308	3.1.	4	1
4	Wall Temperature Analysis of Combustor for producer gas application using CFD"	Volume: 04 Special Issue: 03 May-2015 NCRIET-2015	eISSN:1617-2163 pISSN: 2261-7308	3.1.	3	1

5	Numerical Analysis of Internal Combustion Engine for producer gas application with moving mesh approach using CFD”	Volume: 03 Special Issue: 03 May-2016 NCRIET-2016	eISSN:2717-2163 pISSN: 2321-7309	3.1.	3	1
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2. Training Courses, Teaching-Learning-Evaluation Technology Programs, Faculty development Programmes IS IT CONDUCTED OR ATTENDED

Sl. No.	Name of Course/Summer/Winter School	Duration	Organized By
1.	Programme and Level (National, etc.,)	08/07/2007	TEQIP-II
2.	One Day Workshop on QIP Service to community & Economy programme “Adolescence & Parents”	28/05/2013 to 29/05/2013	TEQIP-II
3.	Recent Advances in Mechatronics and Applications(RAMA-13) (TEQIP-II)	20/05/2013 to 24/05/2013	TEQIP-II
4.	1 Week work shop titled “Recent Advances in Thermal Engineering and its Applications (RATA-13)” (TEQIP-II)	01/09/2014 to 05/09/2014	TEQIP-II
5.	Essential skills for Mechanical Engineers”(TEQIP-II)	23-03-2017	TEQIP-II
6.	One week AICTE sponsored Phase 1 of online Short-Term Training Program (STTP) on the title “Creating Smart and Green Society through Advance Technology of Green Energy” Held during 10th – 15th December, 2020 at Malnad College of Engineering, Hassan, Karnataka	10th – 15nd December, 2020	AICTE
7.	One week AICTE sponsored Phase 2 of online Short-Term Training Program (STTP) on the title “Creating Smart and Green Society through Advance Technology of Green Energy” Held during 17th – 22nd December, 2020 at Malnad College of Engineering, Hassan, Karnataka.	17th – 22nd December, 2020	AICTE

8.	One week AICTE sponsored Phase 2 of online Short-Term Training Program (STTP) on the title "Creating Smart and Green Society through Advance Technology of Green Energy" Held during 17th – 22nd December, 2020 at Malnad College of Engineering, Hassan, Karnataka.	08/07/2007	TEQIP-II

3. Papers presented in Conferences, Seminars, Workshops, Symposia

Sl. No.	Title	Title of Conference/Seminar etc.	Dates of the Event	Organized by	Whether International/National/State/Regional/University/College Level
1	"Exergy Analysis and IGCC Plant Technology to Improve the Efficiency and to Reduce the Emission in Thermal Power Plant"	National Conference on Recent Innovations in Engineering and Technology(NCRIET-24)	2014	BKET	National Level
2	" Wall Temperature Analysis of Combustor for producer gas application using CFD"	International Conference on Innovations and Emerging Trends in Mechanical Engineering	2014	NCET, Bangalore	International Level
3	"CFD Analysis of Internal Combustion RB-33 Kirloskar Engine for Producer Gas Low Energy Fuel Application"	International Conference on Emerging Technologies in Mechanical Engineering(ICEMS)	2014	MRCET Hyderabad	International Level
4	Wall Temperature Analysis of Combustor for producer gas application using CFD"	International Conference	2014	NCETB, Bangalore	International Conference
5	Numerical Analysis of Internal Combustion Engine for producer gas application with moving mesh approach using CFD"	International Conference	2014	NCET, Bangalore	International Conference
	CFD Analysis of Internal Combustion RB-33 Kirloskar Engine for Producer Gas Low Energy Fuel Application"	International Conference	2014	MRCET, Hyderabad	International Conference
	Solar energy: review of potential green and clean energy for coastal and offshore applications.	National Journal(IJSR)	2015	BKIT,Bhalki	National Journal(IJSR)
	Measurement of thermochemical properties of some metal hydrides- Titanium(Ti),MISCH	National Journal(IJSR)	2015	BKIT,Bhalki	National Journal(IJSR)

	Metal(Mn) and Lanthanum(La) based alloys a –review.				
	A reviewed thermal energy storage technologies and control approaches for solar cooling	National Journal(IJSR)	2015	BKIT,Bhalki	National Journal(IJSR)
	Design and wall temperature optimization of combustor for low calorific value gases application using numerical analysis	International Journal(IJERT)	2015	REVA,ITM, Bangalore	International Journal(IJERT)
	Analysis of combustion chamber for low energy fuels applications using CFD	International Journal(IJERT)	2015	REVA,ITM, Bangalore	International Journal(IJERT)
	Recent Development of a Compressed air Technology in the vehicles	International Journal(IJERT)	2015	REVA,ITM ,Bangalore	International Journal(IJERT)
	Combustion and Heat Transfer Anaysis of gas Fired Heat Exchanger unit using CFD	International Journal(IJERT)	2016	BKIT,Bhalki	International Journal
	A Riew of metal hydride based hydrogen energy storage	International Journal(IJERT)	2016	BKIT,Bhalki	International Journal
	External Aerodynamics Analysis for Fuselage for various angles of attacks and speeds	International Journal(IJERT)	2016	BKIT,Bhalki	International Journal
	Review on exhaust gas heat recovery for IC engine usng refrigeration systems	International JournalEmerging Technologies(IJERT)	2016	BKIT,Bhalki	International Journal
	Recent Trends in Nanotechnology and its future scope	International JournalEmerging Technologies(IJERT)	2016	BKIT,Bhalki	International Journal
	Metal Hydrde based cooling systems with hydrogen as working fluid a review	International JournalEmerging Technologies(IJERT))	2016	BKIT,Bhalki	International Journal

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