



ACADEMIC PROFILE OF DIRECTOR

1. **Name in Full** : Dr. KAJALE SHYAM RAMCHANDRARAO
2. **Address** : Dr. S.R. Kajale
Director,
Shri Guru Gobind Singhji Institute of Engineering
and Technology, Vishnupuri,
NANDED. (M.S.) PIN: 431 606
Phone : (O) 229234, (R) 229235
E-mail: director@sggs.ac.in
Fax : (02462) 229236
3. **Date of Birth**: 12/09/1959
4. **Nationality** : Indian.
5. (a) **EDUCATIONAL QUALIFICATIONS** :

Name of Examination	School/College	Board/University	Year of Passing	% of Marks	Class/Div.
Diploma in Mech. Engg.	Govt. Polytechnic, Amravati.	Technical Board, Mumbai.	1980	74	I
B.E. (Mech.)	Govt. Engg. College, Amravati.	Nagpur University.	1983	75.4	Ist with Dist ⁿ
M.Tech. (Mech -Prod. Sci. & Tech.)	Indian Institute of Technology, Kharagpur.	IIT	1990	84	A Grade
Ph. D. (Mech.)	I.I.T., Kharagpur.	IIT	1997	---	---
Course in Tool and Die Design	St. Joseph Technical Institute, Pune.	St. Joseph Technical Institute, Pune.	1983		Ist with Dist ⁿ

5 (b) Title of Ph.D. Thesis: A Numerical Model and Experimental Investigations for Laser Drilling Process.

6. PRESENT EMPLOYMENT:

Date of joining : 03-07-2002
Scale of pay : 16400-450-24500

7. EXPERIENCE (PARTICULARS OF PREVIOUS APPOINTMENTS)

Name of the Employer	Position held	Date of Joining	Date of Leaving	Reason of Leaving (Brief)	Scale of Pay
Bajaj Auto Ltd., Pune.	Trainee Engineer	18-07-1983	12-07-1984	Joined SGGSC&T as Lecturer	Rs. 1100/-
SGGS College of Engg. & Technology, Nanded.	Lecturer	13-07-1984	16-07-1993	Joined SGGSC&T as Asstt. Prof.	Rs. 8000-12000.
SGGS College of Engg. & Technology, Nanded.	Asstt. Prof.	16-07-1993	02-07-2002	Joined Govt. Engg. College as Professor.	Rs. 12000-18000.
Govt. College of Engineering, Pune.	Professor & Dean R and D	03-07-2002	---	----	Rs. 16400-24500
SGGSIE&T, Nanded	Director	02-07-2008	---	----	----

8. a) TEACHING EXPERIENCE: (Total : 23 Years)

Experience as	From	To	Designation	Total Years
Director	2 nd July, 2008	Till today	Director	
Professor	3 rd July 2002	Till today	Professor and Head	5 & ¼
Assistant Professor	16 July 1993	2 July 2002	Asstt. Prof. and Head	09
Lecturer	13 July 1984	15 July 1993	Lecturer	09

8. b) ADMINISTRATIVE EXPERIENCE: (Total : about 16 Years)

Experience as a / Designation	From	To	Designation	Total Years
Director	2 nd July, 2008	Till today	Director	
Professor and Head of Dept.	3 rd July 2002	Till today	Professor and Head of Dept.	5 & 1/4
Asstt. Prof. and Head of Dept.	16 July 1993	2 July 2002	Asstt. Prof. and Head of Dept.	06
Lecturer and Head of Dept.	13 July 1984	15 July 1993	Lecturer and Head of Dept.	About 4 & 1/2

8. c) PROFESSIONAL TRAINING RECEIVED

Year	Nature of Training	Duration	Organisation where training was provided
1983	Trainee Engineer	One Year	Bajaj Auto Ltd., Pune.

8. d) SUBJECTS TAUGHT DURING LAST FIVE YEARS

Sr. No.	Title of course taught	Under Graduate/ Post Graduate	Year
1.	ME-II, CAD/CAM and Automation, CAD	UG PG	2006-2005
2.	ME-II, CAD/CAM and Automation, CAD	UG PG	2005-2004
3.	CAD/CAM and Automation, AT II, CAD	UG PG	2004-2003
4.	EME, CAD/CAM and Automation, CAD	UG PG	2003-2002
5.	EME, CAD/CAM and Automation, CAD	UG PG	2002-2001

9. CURRENT AREAS OF INTEREST AND RESEARCH:

Areas of Interest: Micro-Systems Engineering, Advanced Manufacturing, Press Working and Tool Design

Area of Research: Micro and Non-Conventional Manufacturing, CAD/CAM, Process Modelling and Optimisation

10. MEMBERSHIP OF PROFESSIONAL BODIES:

Sr. No.	Name of the Body	Status of Membership (Life/Annual)
1	Institution of Engineers	Fellow Membership No. F-111697-1 Regd. No. 060200687200 Attached to: Pune Local Centre
2	Indian Laser Association	Life Member
3	ISTE	Life Member
4	ISME	Life Member
5	ISHRAE, PUNE	CWC Member
6	Shivaji University, Kolhapur	BOS member
7	North Maharashtra University, Jalgaon	BOS member
8	Mumbai University, Mumbai.	BOS & Faculty member

11. IMPORTANT STTPs / WORKSHOPS ATTENDED :

Sr.No.	Institution	Title	Place	Duration
1	Mech. Engg. Research & Development Organization (MERADO), Pune.	Undergone research training like literature survey, latest equipments in metrology and its usage, etc	Pune	1985 (three months)
2	Sri Jaychamrajendra College of Engineering, Mysore.	ISTE Winter School on "Computer Aided Design & Analysis of Engg. Systems"	Mysore	1986 (two weeks)
3	IIT, Kharagpur	ISTE Summer School on "Design & Mfg. of Castings"	Kharagpur	1988 (two weeks)
4	IIT, Kharagpur	IEEE short term course on "Robotics"	Kharagpur	1988 (03 days)
5	Govt. College of Tech., Coimbatore.	ISTE Winter School on "UNIX & C"	Coimbatore	1990 (two weeks)
6	Govt. College of Engg., Pune.	QIP course in "Computer Applications"	Pune	1992 (four weeks)
7	K.J. Somaiya College of Engineering, Mumbai.	Workshop on "ISO-9000/IS-14000"	Mumbai	1993 (03 days)

8	IIT, Kharagpur	ISTE STTP on “Non-Conventional Machining”	Kharagpur	1997 (two weeks)
9	MGM’s College of Engineering, Nanded.	ISTE-AICTE Winter School on “Mobilization of Financial Resources in Tech. Institutes by IIT”	Nanded	2002 (two weeks)
10	NIFM, Faridabad	Financial Management	Delhi	2004
11	IIT, Mumbai	Institute Vision Development	Mumbai	2005
12	Consultant organization	Stress Management and Excellence building	Pune	2007

12. POST GRADUATE / Ph. D. THESIS GUIDED

Sr. No.	Name of the student/ research scholar	Title of thesis	Doctorate or Master’s level	Year of completion (or in progress)
01	M.M. Pawde	Temperature Distribution by FEA	M.E.	Jan. 1998
02	R. Wadgaonkar	CAD for RCC pipe design	M.E.	Dec. 1998
03	S.G. Mantri	CAD of M/C Tool Gear Box	M.E.	Mar. 1999
04	S.M. Kahalekar	Application of Pick and Place Device	M.E.	Dec. 1999
05	P.B. Petle	Design of Roller Seat Ejection System for Grinding Fixture	M.E.	Feb. 2000
06	Ch. Suresh	Study of MAF process	M.E.	Apr. 2000
07	S. Waigaonkar	Optimization of MAF process	M.E.	Apr. 2000
08	M.K. Kulkarni	Software for Jigs and Fixtures design	M.E.	July 2001
09	S.M. Lasune	Optimization of EDM	M.E.	Sept. 2001
10	Ms S. Desai	Software for ANOVA	M.E.	May 2002
11	Ms S. Savant	Learning Software development	M.E.	June 2002
12	M. Khot	Performance Analysis & Modelling for Heat Exchanger	M.E.	May 2003
13	P.V. Bahadure	Laser Machining Analysis using FEA	M.E.	May 2004
14	J.K. Sawale	Laser Machining	M.E.	May 2005
15	M.R. Pathak	Temperature Distribution in EDM by FEA	M.E.	May 2005
16	Uday Jaiswal	Mathematical Modeling & simulation of low Nox Burner	M.Tech	2005
17	Mahesh Kulkarni	Spiral plate heat exchanger	M.Tech	2005

18	Tushar S Achha	Stress analysis of caliper and bracket and exp verification	M.Tech	2005
19	M. Mane	Optimization of Die Design parameters	M.Tech.	2006
20	S.S. Bhavikatti	Mathematical Modeling of Laser Transformation Hardening	M.Tech.	2006
21	S.D. Limaye	Determination of flow and loss coefficient for ball valve	M.Tech.	2006
22	V.B. Tungikar	Analysis of Machining of Composites	Ph.D. Completed	June 2003
22	Ch. Suresh	Optimization of MAF Process	Ph.D.	Registered in May 2002
23	S. B. Patil	Surface Treatment using Laser	Ph.D.	Registered in May 2002
24	M. Kulkarni	Laser Machining	Ph.D.	Registered in May 2002
25	S. Bhalerao	Thermal Analysis of Grinding	Ph.D.	Registered in May 2004

13. BOOK PUBLICATION:

A book on Thermal Engineering, in electronic format (CD) published by Technobahn Ltd. Nanded.

14. RESEARCH CONTRIBUTION: Separate *Annexure – I* Enclosed

- A) Papers in refereed journals
i) International Journals : 02
ii) National Journals : 04
B) Papers in Conference Proceedings
i) International Conferences : 14
ii) National Conferences : 13

15. SPONSORED PROJECTS UNDERTAKEN

Sr.No.	Sponsoring Agency	Title of Project	Amount in Rs.	Period & Institute
1	MHRD (DCA)	Laser Material Processing Laboratory	13.00 Lakh	2 Years (SGGSCE&T)
2	MHRD (DCA)	Modernisation of CAD/CAM Laboratory	08.00 Lakh	2 Years (SGGSCE&T)
3	MHRD (DCA)	Modernisation of Steam Power plant.	12.00 Lakh	3 Years (COE, Pune)
4	MHRD (DCA)	Modernisation of CAD/CAM Laboratory	09.35 Lakh	2 Years (COE, Pune)
5	DST	Micro Systems Engg. Lab.	@ 1.25 Crores	5 Yeas (COE, Pune)

16. CONSULTANCY WORK DONE

Sr.No.	Organisation	Nature of work	Amount in Rs.
1	Various manufacturing firms in Nanded under MSSIDC Contract.	Inspection and testing of the different furniture items manufactured by these firms.	Earning of about Rs. 70,000/- per Year
2	KSB Pumps Ltd., Nasik. (at COEP)	Study and analysis of manufacturing process and certification for pump.	Rs. 10,000/-
3	Maharashtra Government (Commissioner of Co-operation)	Inspection and Justification of loan required for Balaji Particle Board, Risod. (Dist. – Washim)	Rs. 50,000/-
4	NTPS	Boiler Tube leakage failure Analysis.	Rs. 10,00,000/-

17. INDUSTRIAL EXPERIENCE / INTERACTION

Sr.No.	Organisation	Nature of work
1	Bajaj Auto Ltd., Pune.	Trainee Engineer (for one year)
2	<ul style="list-style-type: none"> • Tata Technologies, Pune. • Duro Valves, Aurangabad. • Bharat Heavy Electricals Ltd, Nasik • TELCO, Pune • Thermax, Pune • Bajaj Auto, Pune • Forbes Marshall, and many other 	<ul style="list-style-type: none"> * Various PG and UG projects. * Interaction for joint projects, syllabus development, training programme, etc.

18. LIST OF CONTINUING EDUCATION PROGRAMMES / CONFERENCES / SEMINARS / WORKSHOPS ORGANISED

S. No.	Title	Place	Period
1	Induction Training for Teachers	SGGSCE&T, Nanded.	1993 (three days)
2	“Marathwada Vidhyan Parishad” in collaboration with ‘Marathwada Statutory Development Board’, Aurangabad’	SGGSCE&T, Nanded.	1999 (three days)
3	ISTE-STTP on “Applications of FEM in engineering’	SGGSCE&T, Nanded.	2000 (one week)
4	STTP on “Recent Trends and Developments in IC Engines”	Govt. College of Engg, Pune.	2003 (one week)
5	STTP on “Cooling Load Estimation and duct Design of an Air Conditioning System”	Govt. College of Engg, Pune.	2005(one week)

6	National Conference on Energy and Fuel Issues of Future	Govt. College of Engg, Pune.	5-6 November 2005
7	Workshop on “Environment Friendly Refrigeration and Cryogenics”	Govt. College of Engg, Pune.	2006 (2 days)
8	STTP on Computational Fluid Mechanics and Heat Transfer	Govt. College of Engg, Pune.	2005(Two week)
9	International Conference On Advances in Machne Design ad Industry Automation, ICAMDIS-2007	Govt. College of Engg, Pune.	10-12 Jan 2007
10	Turbo Machinery Course	COE, Pune	July 2007
11	Course on IPR	COE, Pune	1 st Sept. 2007

19. IMPORTANT CONFERENCES / SEMINARS / WORKSHOPS ATTENDED

S. No.	Year	Conference/Seminar/Workshop/	Held at /Place
1	1991	Int Conf on Design Automation and CIM.	PSG Coimbatore
2	1993	International Conference on INCARF-93.	IIT, Delhi.
3	1996	National Laser Symposium.	BARC, Mumbai.
4	1996	National Workshop on Applications of Laser in Mechanical Engineering.	Jadavpur Univ., Calcutta.
5	1997	National Seminar on Applications of Mathematics in Engineering	SGGSCE&T, Nanded.
6	1998	18 th All India Machine Tool Design and Research (AIMTDR) Conference.	IIT, Kharagpur.
7	1999	AICTE sponsored National Seminar on “Technology Beyond 2000”.	Gramin Polytech., Nanded.
8	2000	19 th AIMTDR Conference.	IIT, Chennai.
9	2006	7 th International tooling conference	Turino, Italy

20. CONTRIBUTION TO ACADEMIC ENVIRONMENT / INSTITUTIONAL CORPORATE ACTIVITIES:

At Govt. COE, Pune, was actively involved in:

- Core committee (institute level) for Autonomy to COEP,
- Core committee (institute level) for TEQIP,
- Core committee (institute level) for Permanent Affiliation to COEP,
- Development of Vision 2020 document for Maharashtra State,
- Nominated as Dean R & D for Autonomous PIET (formerly COEP) for one year

Departmental reforms implemented so far are:

- Creation of research environment (three faculty are registering for Ph D),

- Improvement in academic discipline and environment of department (dept now remains open from 8.30 AM to 10.30 PM)
- Involvement of faculty in PG and first year teaching,
- Accelerated interaction with industries
- Improvement in consultancy/IRG activities,
- Reforms in testing and consultancy amount distribution among staff,
- Started CEP activities in the department,

21. UNIVERSITY RECOGNITION AND RELATED WORK

- a) Worked as **Dean, Faculty of Engineering for SRTM University, Nanded.**
- b) Presently working as Dean R and D at COE, Pune.
- c) Member, Faculty of Engineering of SRTM University Nanded.
- d) Approved Ph.D. guide in Mechanical Engg, for SRTM University, Nanded.
- e) Six students have registered for carrying out Research leading to Ph.D. degree.
- f) Approved Ph.D. guide in Mechanical Engg, for Amravati University.
- g) BOS and 32/5 member for Production Engg. board at Dr. BAMU, Aurangabad.
- h) Instrumental in restructuring of UG and PG syllabus for Mechanical and Production Engg. at SRTMU, Nanded

Annexure I

RESEARCH CONTRIBUTION (Dr. S.R. Kajale)

PAPER PUBLICATIONS:

S. No.	Title of Paper	Title of Journal /Conf.	Venue	Date	Co-authors
Paper in Referred International Journal:					
1	Development and Simulation of Real Time Scheduling Model: A Step Towards Flexible Manufacturing Software For FMS	Journal of Modelling Measurement and Control - D	AMSE Press, Vol.5, No.4, pp. 367-373.	1992	B.M. Dabade and T.R. Sontakke
2	Thermal Analysis of Grinding	Int J. of App. Research and Analysis		2007	Y.S. Bhalerao
Paper in Referred National Journal:					
2	Modelling a Time Dependent Heat Conduction Problem in Layered Composites.	Journal of Production Engg., Institution of Engineers, India.	Vol. 83, pp. 1-6.	2002	V.B. Tungikar, G.D. Rathod and Prof. S.K. Basu
3	Dynamic Response of Laminated Composite Plate using First Order Shear deformation Theory	“Journal of Institution of Engineers”, India.	vol. 84, pp 45-48.	2003	V.B. Tungikar, M.D. Rao and Prof. S.K. Basu
4	Finite Element Modeling of Transient Thermal Stresses in Layered Composites.	Journal of Institution of Engineers, India.	vol. 84, pp 82-84.	2004	V.B. Tungikar, G.D. Rathod and Prof. S.K. Basu
5	On the Use of a Simple Higher Order Theory for Dynamic Analysis of Composite Plate.	“Journal of Institution of Engineers”, India.	vol. 84, pp 85-89	2004	V.B. Tungikar, R.D. Chaudhari and Prof. S.K. Basu
Papers in International Conference Proceedings:					
6	On Line Scheduling, An Approach To Flexible Manufacturing Software For FMS	Design Automation and Computer Integrated Manufacturing	PSG College of Engg., Coimbatore, India.	7-9 January 1991.	B.M. Dabade and T.R. Sontakke
7	Cybernetics of FMS Parameters and Optimization	Modelling and Simulation	Kiev, Ukraine.	20-23 Sept., 1993.	B.M. Dabade
8	Optimization and Evaluation of Cybernetics of Real Time scheduling Model for FMS-A factorial Experimentation Approach.	INCARF-93	IIT, Delhi.	16-19 Dec., 1993.	B.M. Dabade
9	Finite Element Modelling of Temperature in	IFAME-2000	Coimbatore	10-12 Jan.	V.B. Tungikar and M.M.

	Rectangular Composite laminate		Institute of Tech., Coimbatore.	2000	Pawade
10	Magnetic Abrasive Finishing: A Super finishing Process	Millennium Manufacturing-2000	Univ. of Anantpur, Anantpur.	24-25 June, 2000	Ch. Suresh Kumar and S.B. Sharma
11	Parametric evaluation of primary combustion chamber of WTB of sugar factory”	Heat Transfer, Fluid Mechanics, and Thermodynamics	Cape Town, South Africa,	21-24 June 2004	S.N.Sapali
12	Condensation of R-134a In a Multi-channel Aluminum Flat Tube Condenser with Micro-fins	Heat Transfer, Fluid Mechanics, and Thermodynamics	Cape Town, South Africa,	21-24 June 2004	Kiran Gaikwad S.N.Sapali
13	Analysis of Flue Gas loss through Mathematical Modeling and Experimentation on Fire Tube Boilers for Performance Improvement	Heat Transfer, Fluid Mechanics, and Thermodynamics	Cairo, Egypt, Sept.	18 – 19 Sept, 2005	Jambekar Kedar S.N.Sapali
14	Advancement in Kern’s Method and Comparison of Rating Methods”	Heat Transfer, Fluid Mechanics, and Thermodynamics	Cairo, Egypt, Sept.	18 – 19 Sept, 2005	Shashikumar Jogi S.N.Sapali
15	Rating and Optimization of U-Tube Shell and Tube Heat Exchanger	Heat Transfer, Fluid Mechanics, and Thermodynamics	Cairo, Egypt, Sept.	18 – 19 Sept, 2005	Shashikumar Jogi S.N.Sapali
16	Optimization of Shell & Tube Intercooler in Multi-stage Compression Unit”	Heat Transfer, Fluid Mechanics, and Thermodynamics	Cairo, Egypt, Sept.	18 – 19 Sept, 2005	Shashikumar Jogi S.N.Sapali
17	Modeling of automobile cabin to eliminate fogging.	Modeling and Simulation 2006,	University of Malaya, Kuala Lumpur, Malaysia.	April 2006	R. B. Kharat, M. R. Nandgaonkar,
18	Improvement in tool life of cutting tool by application of Deep Cryogenic treatment.	Tooling conference	Turino, Italy	May 2006	Tated R.G., Kumar Iyer
Papers in National Conference Proceedings:					
19	Some Aspects of Mathematical Modelling for Material removal Rate in Abrasive Jet Machining	IX ISME Conference on Mechanical Engineering	IIT Roorkee (Univ. of Roorkee, Roorkee).	10-11 Nov., 1994	P.R. Sardeshmukh., S.B. Sharma
20	Experimental and Numerical Estimation of Threshold Power Intensities by Pulsed Nd-YAG Laser Machining	National Laser Symposium	IRDE, Dehradun.	Feb. 1995	J.D.Rana, B.V.S.S.S.Prasad And P.K.Mishra
21	Numerical Investigations of Threshold	National Laser Symposium	BARC, Mumbai.	Jan. 1996	B.V.S.S.S.Prasad

	Intensities for Laser Material Processing				And P.K.Mishra
22	Effect of Pulse Condition on Nd-YAG Laser Drilling-Numerical and Experimented Studies	National Laser Symposium	BARC, Mumbai	Jan. 1996	P.Saha and P.K.Mishra
23	Some Case Studies on Laser Material Processing	Applications of Lasers in Mechanical Industry	Jadavpur University, Calcutta.	Feb. 1996	P.Saha, B.V.S.S.S.Prasad, S.Roy and P.K.Mishra
24	Pulsed Nd-YAG Laser Drilling-Numerical and Experimental Studies for Threshold Intensity and Depth of Cut	17 th AIMTDR Conference	REC, Warangal.	Jan. 1997	B.V.S.S.S.Prasad, S.Sarkar
25	Investigations into Pulsed Laser Drilling of Metals	17 th AIMTDR Conference	REC, Warangal.	Jan. 1997	S.Sahu and P.K.Mishra
26	Restructuring Engineering Education: The Need and Some Intended Strategies	Restructuring of Technical Education System for Better Efficiency and Effectiveness	VRSE College, Vijaywada.	5-6 Dec. 1997	S.B.Sharma and V.B.Tungikar
27	Optimisation of Laser Drilling Process	18 th AIMTDR Conference	IIT, Kharagpur.	10-12 Dec. 1998	B.M.Dabade, B.V.S.S.S.Prasad and P.K.Mishra
28	Optimization of MAF	19 th AIMTDR, Conference	IIT, Chennai.	08-10 Dec. 2000	L.G.Nawale, S.D. Waigaonkar
29	Experimental Investigation and Optimization for a Modern Manufacturing Method: Magnetic Abrasive Finishing	Manufacturing Challenges in 21 st Century	IIT, Kanpur.	02-04 March, 2001	Ch.Suresh, S.D.Waigaonkar
30	Finite Element Modelling of Transient Thermal Stresses in Layered Composites	16 th Convention of Production Engineers	BHUIT, Varanasi.	19-20 Jan. 2002	G.Rathod, V.B.Tungikar, Prof.S.K.Basu
31	Free Vibration Analysis of Laminated Composite Plate by FEA Using Non Confirmatory Elements.	20 th AIMTDR, Conference.	BIT, Mesra, Ranchi.	27-29 Dec. 2002.	V.B.Tungikar, Prof. S.K.Basu
32	Analysis of Flue Gas loss through Mathematical Modeling and Experimentation on Fire Tube Boilers for Performance Improvement	Development-cum Environment friendly future industrial fuels	center for energy studies, Kamaraguru college of Tech. Coimbtore	19 th to 21 st May 2005	Jambekar Kedar Dr S.N.Sapali