

Er. Harshwardhan Chandrakant Pandit

Personal Details:

- Name: Harshwardhan Chandrakant Pandit
- Address: B- 23, Sargam Vihar, Nagala Park, Kolhapur. (Maharashtra.) 416003
- E- mail ID.: mahapandit123@gmail.com
- Contact No.: 0231-2665029, 9860839117, 9130779230
- Date of birth: 02/ 10/ 1987
- Sex: Male
- Marital status: Married

Academic Details:

Degree	Name of College	University/ Board	Result
M. Tech – Mechanical Engineering (Production Engineering) (2012)	Walchand College of Engineering, Sangli.	(Autonomous Institute) Shivaji University	8.41/10 First in Production Engineering
B. E. – Production Engineering (2009)	K. I. T.'s College of Engineering, Kolhapur.	Shivaji University, Kolhapur	78.79% First in University Merit List
HSC (2005)	Vivekanand Junior College, Kolhapur.	Kolhapur HSC, Board	75.67 %
SSC (2003)	Vidyapeeth High school, Kolhapur.	Kolhapur SSC, Board	84 %

Additional Qualifying Examination:

Exam	Year	Department	Discipline	Score	Rank
GATE	2009	Production Engineering	PI	349	203

Academic Work Experience:

Name of organization	Designation	Period	Nature of work
Department of Technology, Shivaji University, Kolhapur	Assistant Professor (Mechanical Engineering)	20/07/2016- 16/05/2017	Teaching and practical of 1. Manufacturing Engineering II 2. Manufacturing Engineering

			III 3. Mechatronics and Robotics 4. Industrial Engineering and Management
Department of Technology, Shivaji University, Kolhapur	Assistant Professor (Mechanical Engineering)	01/03/2016-02/06/2016	Teaching and practical of 5. Manufacturing Engineering I 6. Object oriented programming using C++ 7. Theory of Machines – I 8. Theory of Machines – II 9. Material Science and Metallurgy 10. Metrology and Quality Control
		02/12/2015-29/02/2016	
		29/06/2015-01/12/2015	
		26/08/2014-29/05/2015	
Genesis Institute of Technology, Kasarwadi, Kolhapur.	Assistant Professor (Mechanical Engg.)	05/09/2013 - 21/8/2014	Teaching and practical of 1. Manufacturing Processes 2. Theory of Machines - I 3. Foundry Technology 4. Welding Technology 5. Advanced Machine Tools
K. I. T.'s College of Engineering, Kolhapur.	Lecturer (Production Engg.)	01/07/2009 - 31/12/ 2009	Teaching and practical of 1. Engineering graphics 2. Machine drawing

Administrative and other Work Experience:

Sr. No.	Position	Activity / Cell
1.	Head, Dept. of Mechanical and Production Engineering	Academic and administrative activities, establishing and executing different norms, procedures etc, improve academic quality of students. 01/02/2014 – 21/8/2014
2.	Coordinator	Industry Institute Interaction Cell (IIIC), Department of Technology.
3.	Quality Director CAP	CAP Shivaji University, Kolhapur 23/01/2016-03/02/2016
4.	Coordinator	Short term training programme for Mechanical Engineering in AutoCAD with Indo German Tool Room, Aurangabad. 05/02/2016- 23/02/2016
5.	Coordinator	Extension of m Tutor, e-Learning facility for first year students of Shivaji University, Kolhapur affiliated Engineering and Technology colleges.
6.	Coordinator	Extension work of preparing and submitting B. Voc Foundry and Quality control course to the UGC on behalf of Shivaji University, Kolhapur.

7.	Coordinator	“Anveshan: University Level Research Competition” organized by Association of Indian Universities, (AIU), New Delhi.
8.	Coordinator	Patriotic Song Competition, Department level, February, 2015. 12
9.	Coordinator	“Azaad”: Patriotic Song Competition, Department level, 24 August, 2015.
10.	Coordinator	Drafting of the constitution for various students’ Associations in Department of Technology.
11.	Coordinator	Drafting of the working document for student teacher academic advisory committee (STAAC) at Department of Technology.
12.	Executive Secretary	Board of Control for Students’ Association (BCSA) at Department of Technology.
13.	Coordinator	Engineers’ Day, 2015. Chief Guest: Er. M. A. Kakade, COE, SUK.
14.	Coordinator	Visit of Dr. P. K. Vijayan, Renowned Scientist, BARC to Department of Technology.
15.	Coordinator	Dr. Seeram Ramkrishnan Visit and address programme, Shivaji University, Kolhapur, 7 January, 2016.
16.	Coordinator	Rastriy Sadhbhavana Divas, 20 August, 2015.
17.	Coordinator	World Food Day, 2015.
18.	Coordinator	AICTE – CII Survey Data Feeding 2015
19.	Coordinator	AICTE – CII Survey Data Feeding 2016
20.	Coordinator	National Youth Day, 12 January, 2016.
21.	Coordinator	National Youth Day, 12 January, 2015.
22.	Member	West Zone Vice Chancellors Meet, 2015.
23.	Member	Visit of Hon. Prakash Jawadkar, Union Minister for Environment to Shivaji University, Kolhapur. 2016
24.	Member	Visit of Hon. Dr. Subrahmanyam Swami, renowned political thinker and economist to Shivaji University, Kolhapur. 2016
25.	Member	Visit of Bharatratna Dr. C. N. R. Rao to Shivaji University, Kolhapur for Prin. R. K. Kanabarkar Memorial Award Ceremony. 2016.
26.	Member	NBA Cell, Department of Technology.
27.	Member	Industrial Visit to S.Y. Mechanical Engineering students, 2015
28.	Member	Syllabus Committee, Third Year, Mechanical Engineering, 2015
29.	Member	Syllabus Committee, Final Year, Mechanical Engineering, 2016
30.	Member	Shivaji University delegation to IGTR, Aurangabad for collaborative activities.
31.	Class Coordinator	Final Year B. Tech Mechanical Engineering 2016- 2017

32.	Class Coordinator	T. Y. B. Tech Mechanical Engineering 2015- 2016
33.	Class Coordinator	S. Y. B. Tech Mechanical Engineering 2014- 2015
34.	Committee Coordinator	Music and Sound Committee, Annual Social Gathering, Department of Technology, 2015.
35.	Coordinator	FM Tomato, College Katta programme at Department of Technology with RK Aisha.
36.	Communication Coordinator	FICCI Global Education Summit, 2016
37.	Co-Coordinator	Proposal for Incubation Centre at Shivaji University, Kolhapur to ISBA, Noida.
38.	Coordinator	Indo German Tool Room (IGTR), Aurangabad workshop on AutoCAD for Mechanical Engineering under TEQIP II. (5/2/2016-23/2/2016)
39.	Coordinator	Setting up of IGTR extension centre at Shivaji University, Kolhapur.
40.	Coordinator	Shivaji University, Kolhapur and IGTR, Aurangabad joint M. Tech programme.
41.	Member	University level science day and science week celebrations
42.	Coordinator	IGTR Activities, Shivaji University, Kolhapur.
43.	Coordinator	Shivaji University –IGTR Advanced Technology Training Centre, Kolhapur
44.	Coordinator	Gate 2017 Mechanical Engineering
45.	Member	Publicity Committee, Orientation Programme at Department of Technology.
46.	Member	Registration Committee, National Level Conference
47.	Member and communication head	Shivaji University, Kolhapur participation in 12 th FICCI Higher Education Summit at New Delhi during 10,11 and 12 November, 2016.
48.	Member	Shivaji University, Kolhapur delegation to IGTR, Aurangabad under the chairmanship of Hon. Vice Chancellor Prof. Devanand Shinde, 4-6 January, 2017.
49.	Coordinator	Training program on Hydraulics and Pneumatics by Bosch Rexroth at Mysore, Karnataka under TEQIP II 19/09/2016- 23/09/2016
50.	Coordinator	Training program on SOLIDOWKRS by IGTR, Aurangabad under TEQIP II 20/03/2017- 30/03/2017

Area of Work / Research Interest:

- Application of expert systems in foundry operations / manufacturing systems
- Application of neural network in casting quality assurance by prediction of casting defects using case based reasoning approach.
- Use of simulation for casting quality improvement.
- Parameter optimisation in foundry operations.
- Metallurgy

Research Publications:

- [1] Harshwardhan C. Pandit and Uday A. Dabade, “*Optimisation: Need of Today’s Competitive Age- a Case Study on AutoCAST Software*”, proceedings of 2nd International Conference, NuiCONE 2011, 8-10 December, 2011, Nirma University, Ahmadabad.
- [2] Amit Sata, V. V. Mane, Harshwardhan Pandit and Uday Dabade “*A Novel Web-Based System for Casting Defect Analysis*”, proceedings of 60th Indian Foundry Congress, 2-4 March, 2012, Bangalore, pp. 535-544.
- [3] Harshwardhan Pandit and Uday Dabade, “*Application of Historical Data in Foundry for Casting Parameter Optimisation*”, proceedings of 27th National Convention of Production Engineers, National Seminar on Advancements in Manufacturing - Vision 2020, 25 – 26 May, 2012, BIT, Mesra, Ranchi, Jharkhand.
- [4] Harshwardhan Pandit, Amrita Mangarulkar and Uday Dabade, “*Development of New Prototype Interactive System for Casting Defect Identification and Analysis*”, Applied Mechanics and Materials, vol. 197, 2012, pp. 3010-3014. ISBN 978-3-03785-472-3
- [5] Harshwardhan Pandit and Sanjaykumar Ingale, “*Casting Optimisation Aided by Simulation*”, First International Conference on Sunrise Technologies, iCOST-2011, 13-15 January, 2011, Bapusaheb Shivajirao Deore College of Engineering and Polytechnic, Dhule, Maharashtra.
- [6] Harshwardhan Pandit and Prajakta Patil, “*Environmental Impact of Foundries and Health Related Issues*”, National conference on recent practices in conventional and nonconventional energy resources, RPCNeR-2013, 8-9, February, 2013, Sou. Sushila Danchand Ghodawat Charitable Trust’s Sanjay Ghodawat Group of Institution, Atigre, Kolhapur, Maharashtra.
- [7] Harshwardhan Pandit, “*Solar Nano Trees- A Key of Fuel Production*”, National conference on recent practices in conventional and nonconventional energy resources, RPCNeR-2013, 8-9, February, 2013, Sou. Sushila Danchand Ghodawat Charitable Trust’s Sanjay Ghodawat Group of Institution, Atigre, Kolhapur, Maharashtra.
- [8] Harshwardhan Pandit, Chandrakant Pandit and Sujata Pandit, “*Environmental Impact of Indian Foundries and their Effect on Human Health*”, International conference on Multidisciplinary Approaches in Applied Geology, MAAG 2012, 20-21 January, 2012, Gopal Krishna Gokhale College, Kolhapur.
- [9] Harshwardhan Pandit, “*WebCADAS: A New Online Education system for Casting Defect Identification, Analysis and Optimisation of Parameters*”, International Journal of Latest

Trends in Engineering and Technology (IJLTET), Vol. 5, Issue 4, July 2015, ISSN:2278-621X, pp 246-253.

[10] Harshwardhan Pandit, V. A. Gundale and Rohit Patankar, “*The Effect of Trimming the Diameter of a Radial Type Submersible Pump Impeller*”, Imperial Journal of Interdisciplinary Research (IJIR), Vol-2, Issue-5. 2016, ISSN 2454-1362, pp 1344-1349.

[11] Harshwardhan Pandit, “Digital Manufacturing in Foundry”, National Conference on Recent Trends in Mechanical Engineering (NCRTME) 2016 at Walchand College of Engineering, Sangli.

[12] Jayesh Vijaykumar Kumbhar and Harshwardhan Chandrakant Pandit, “A Review Article on Jigs and Fixture”, International Journal of Science and Research (IJSR) ISSN (Online): 2319-7064 Index Copernicus Value (2015): 78.96 | Impact Factor (2015): 6.391, pp. 2467-2468.

Dissertation Work:

1. B. E. Production Engineering:

“Designing for methoding of casting and rejection analysis”

In this work we designed the methoding system for a component manually as well as using AutoCAST software and checked the defect occurrence and rejection levels suggesting remedial measures.

Name of guide: Prof. Anant M. Vaidya

2. M. Tech Mechanical Engineering :

“Development of a prototype expert system for casting defect identification using case based reasoning”.

In this work we developed a system for casting defect identification and parameter optimisation based on historical data analysis.

Name of guide: Prof. Dr. Uday A. Dabade

Academic credentials:

- Shivaji university academic topper at undergraduate degree in T.E.- Production engineering, 2008.
- Shivaji university academic topper at undergraduate degree in B.E.- Production engineering, 2009.

- Academic topper in M. Tech – Mechanical Engineering (Production Engineering) at Walchand College of Engineering, Sangli (An autonomous institute).
- Winner of best question award at 60th Indian foundry congress, Bangalore, 2012.
- P. G. Students’ representative in year 2011- 2012 at Walchand College of Engineering, Sangli (An autonomous institute).
- GATE 2009 Production Engineering exam qualified

Merit scholarships and prizes:

- Shivaji University, Kolhapur merit scholarship for Academic Topper in B.E. (Production Engineering) exam held by Shivaji University, Kolhapur, 2009.
- Shivaji University, Kolhapur merit scholarship for Academic Topper in T.E. (Production Engineering) exam held by Shivaji University, Kolhapur, 2009.
- K. I. T.’s College of Engineering, Kolhapur merit scholarship for Academic Topper in B.E. (Production Engineering) exam held by Shivaji University, Kolhapur, 2009.
- Department of Production Engineering, K. I. T.’s College of Engineering, Kolhapur merit scholarship for Academic Topper in B.E. (Production Engineering) exam held by Shivaji University, Kolhapur, 2009.
- K. I. T.’s College of Engineering, Kolhapur merit scholarship for Academic Topper in T.E. (Production Engineering) exam held by Shivaji University, Kolhapur, 2009.
- Late Seth Rambhai Samani memorial prize given by Yashwant Iron and Steel Works Ltd. Kolhapur for Academic Topper in B.E. (Production Engineering) exam held by Shivaji University, Kolhapur, 2009.
- Late Shri Prasad Dattatrey Sawant memorial prize given for Academic Topper in B.E. (Production Engineering) exam held by Shivaji University, Kolhapur, 2009.
- First winner of painting competition held at *Antarnad*, K. I. T.’s College of Engineering, Kolhapur, 2009.
- First winner of poster competition held on occasion of science day celebration at K. I. T.’s College of Engineering, Kolhapur, 2006.

Organisational/ Administrative skills:

- Well experienced in organisation of technical workshops such as RTMT-2011, RTMT-2012 at national level, workshop on research methodology in 2011 and 2012 and Avishkar at university level.

- Excellent leadership qualities with honesty, sincerity, perseverance and hard working towards fine tuning systems.

Computer Skills:

- Designing software such as Catia, AutoCAD, Solidworks
- Casting simulation software such as AutoCAST
- Microsoft excel and rejection analysis

Hobbies :

- Watercolour artist.- Watercolour landscapes, held one week exhibition of paintings at Shahu smarak bhawan, Kolhapur in 2011.
- Reading books related to politics, history, art etc.
- Playing chess
- Listening to music, playing synthesizer
- Reciting Sanskrit shlokas

Workshops participation:

Sr. No.	Details	Organizer / Place / Duration
1.	National level workshop on research methodology	Walchand College of Engineering, Sangli. (Autonomous Institute) 24-26, September, 2010
2.	2 nd National level workshop on recent trends in manufacturing : foundry technology	Walchand College of Engineering, Sangli. (Autonomous Institute) 4-5, February, 2011
3.	Workshop on recent trends in machining : electro discharge machining	Rajarambapu Institute of Technology, Rajaramnagar. 4-5, March, 2011
4.	Continuing education and quality improvement programme on casting design and simulation	Indian Institute of Technology, Bombay 5 September – 8 September, 2011
5.	One day state level workshop on vibration monitoring, analysis and fault diagnosis of machines	Walchand College of Engineering, Sangli. (Autonomous Institute) 10, October, 2011
6.	3 rd National level workshop on recent trends in manufacturing	Walchand College of Engineering, Sangli. (Autonomous Institute) 3-4, February, 2012
7.	One day national seminar on lean and green manufacturing in casting and allied manufacturing	K. I. T.'s College of Engineering, Kolhapur and Kolhapur Udyam Co-operative Society, Kolhapur. 26 February, 2012
8.	National Conference on manufacturing excellence through lean, green and safe practices:	K. I. T.'s College of Engineering, Kolhapur. 9-10, February, 2013

	MELGS 2K13	
9.	National level workshop on recent trends in manufacturing	Walchand College of Engineering, Sangli. (Autonomous Institute) 17-18 April, 2015
10.	Two days residential workshop on research avenues in mechanical engineering	Department of Mechanical Engineering, IIT Bombay. 22-24 December, 2014
11.	Workshop on curriculum development of SE Mechanical Engineering	Ashokrao Mane Group of Institutions, Vathar 31 st December, 2013.
12.	Short term training program on advances in manufacturing technology	Rajarambapu Institute of Technology, Rajaramnagar. 30 June – 4 July, 2014
13.	Two week ISTE workshop on Control Systems by IIT Kharagpur	Department of Technology, Shivaji University, Kolhapur 2 December – 12 December, 2014
14.	One week FDP on “DFMA- Efficient Product Design Cost Conscious Manufacture” by D-Espat, Chennai	Sardar Patel College of Engineering, Andheri (W) 18 May – 22 May, 2015
15.	Training programme on Industrial Hydraulics and Pneumatics	VTU-Bosch Rexroth Centre of Competence in Automation Technology, Mysuru 19/09/2016 - 23/09/2016
16.	One Week Full time training the trainer one week Advance Technical Workshop on Qualification Pack (Product Design Engineering) (QP)	DTE Mumbai - IT-ITeS SECTOR SKILLS COUNCIL NASSCOM by Industry Expert at Department of Technology, Shivaji University, Kolhapur 26/09/2016 – 01/10/2016
17.	Short term course in SOLIDWORKS	20/3/2017 to 30/3/2017 Organised by IGTR, Aurangabad at DOT SUK.

Family Details:

Name	Relation	Occupation
Dr. Chandrakant B. Pandit	Father	Associate Professor and head, Dept. of Commerce , Gopal Krishna Gokhale College, Kolhapur.
Dr. Sujata C. Pandit	Mother	Associate Professor, Mahaveer Mahavidyalay, Kolhapur.
Rajwardhan C. Pandit	Younger brother	B.E. Mechanical Engineering, Currently working as Engineer in Research and Development wing of Mercedes Benz India Ltd.

My Dreams and Expectations:

As an ambitious and hard-working individual, I am always committed towards my goal set for life. I am a person of positive vibrant energy with an evergreen zeal and enthusiasm towards my work. Blessed with the academically excellent parents and their moral and ethical nurturing

towards me, I am fully aware of my duties and responsibilities. I strongly believe on hard work and I portray a live example of it. I strongly wish to work for changing face of society working at grass root level. I look forward to work with young aspiring mind to channelize the vibrant energy for the betterment of society and masses. I want to work for cause of education. I believe strongly on enhancing the lives of poor students. I wish to reach to the masses on wide scale. I believe that unless education and awareness are spread amongst the poorest of poor the nation cannot grow ahead. I am a relentless worker, a volunteer. I want to throw my entire life for the betterment of society I live in. Restricting the energy is not form me. I see my energy liberated for the society to the fullest extent with whatever capacities I have along with my limitations.

Harshwardhan Chandrakant Pandit
Kolhapur.