



**Karmaveer Kakasaheb Wagh Education Society's**

## **K.K. WAGH INSTITUTE OF ENGINEERING EDUCATION AND RESEARCH**

Hirabai Haridas Vidyanagari, Amrutdham, Panchavati, Nashik - 422 003, Maharashtra, INDIA

Ph: +91 (253) 2512876, 2516676, 2516671 Fax: +91 (253) 2511962, 2621183, 2518870

Email: [kkwe\\_office@dataone.in](mailto:kkwe_office@dataone.in) / [kkwieer@gmail.com](mailto:kkwieer@gmail.com) Web Site: [www.kkwagh.org](http://www.kkwagh.org)



Padamashree Karmaveer Kakasaheb Wagh

## **ADMISSION INFORMATION BROCHURE**

**M. E. Production (Manufacturing & Automation)**

**M. E. Civil (Structure)**

**M. E. Electrical (Control System)**

**2010 - 2011**



## VISION

Empowering through Quality Technical Education.

## MISSION

Committed to serve the needs of the society at large by imparting state-of-the-art Engineering education and to provide **Knowledge** and develop **Attitudes, Skills** and **Values**, leading to establishment of quality conscious and sustainable research oriented **Education Institute**.

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## 1. ABOUT THE INSTITUTE

K. K. Wagh Institute of Engineering Education & Research (Formerly K. K. Wagh College of Engineering) was established in the year 1984 at Bhusahebnagar and shifted to Nashik City in September 1986. Shri Kakusheth Udesi of Hirabai Hansraj Charitable Trust, Mumbai generously donated a land of 8.2 hectares. The Education Society started building infrastructure at this campus (known as Hirabai Haridas Vidyanagari) in the year 1987. As on date it is fully developed and provides accommodation for office, classrooms, drawing halls, laboratories, workshop etc. Building, with built-up area of 42,575 Sq.m. is already completed and is being used. All Classrooms and Laboratories are designed as per the needs of the students. The Institute library has a good collection of reference and textbooks, periodicals and journals.

The Institute is approved by All India Council for Technical Education (AICTE), New Delhi and Government of Maharashtra. It is affiliated to University of Pune. The Government of Maharashtra has adjudged the Institute as Grade 'A'. NBA-AICTE, New Delhi has accredited Six Courses. The Teaching and Non-teaching Staff of the Institute is a blend of senior experienced and young dynamic faculty members devoted to the noble cause of education. Many of our students were the toppers in the University examination and are in great demand from industries in India and abroad. Our Training and Placement wing tries hard to seek good jobs for our students. In addition to the academics, the students are engaged in sports, co-curricular and extra-curricular activities to provide a healthy relief from rigorous routine. The Institute is having a spacious play ground and the modern facilities for both indoor and out door games with newly established Gymnasium for bodybuilding and fitness. Due to able and proper guidance and motivation, many of our students have topped at University, National and International level in different sport events.

The Institute at present provides four-year course leading to Bachelor's Degree of University of Pune in the following branches of Engineering.

Name of The Branch	Year of Establishment	Sanctioned Intake
▪ Computer Engineering	1984	120
▪ Electronics & Telecommunication	1984	60
▪ Production Engineering	1984	60
▪ Civil Engineering	1985	60
▪ Mechanical Engineering	1995	120
▪ Electrical Engineering	1996	60
▪ Chemical Engineering	1999	60
▪ Information Technology	2001	60
<b>Total</b>		<b>600</b>

The Institute also provides following PG Courses of two year duration leading to Master's Degree in Engineering of, University of Pune in Following Branches and Research Centre in Production, Civil & Electrical Engineering

Name of The Branch	Year of Establishment	Sanctioned Intake
▪ Production Engineering (Manufacturing & Automation)	2006	18
▪ Civil Engineering (Structure Engineering)	2007	18
▪ Electrical Engineering (Control System)	2007	18
▪ M.C.A.	2007	60
▪ M.B.A.	2008	60
<b>TOTAL</b>		<b>174</b>

## 2. PG Courses

### 2.1 M.E. Production (Manufacturing & Automation)

Production Engineering is a combination of Manufacturing Technology with Management Science. Production Engineering is taught a more wider spectrum of Engineering, why Engineering alone? He/ she is made aware of the management challenges related to Production that go to long way in mending his style of looking at problems in Industries.

Production Engineer learns more about Casting, Joining processes, Forming processes, Metal Cutting & Tool Design, Metrology, Kinematics of Manufacturing Machines, Machine Tools, Manufacturing systems, Automation, Jigs & Fixtures, Die & Mould Design with almost single separate subject in all these above processes.

In an Industry, once the design comes to effect, a Production Engineering concept regarding Work study, Ergonomics, Operation Research, Manufacturing Management, Materials Management, Production Planning etc. which are neatly polished off on the course content under separate subject heads that come handy in accomplishing the production in smoothest, judicious & economical way.

Thus a Production Engineer is like a double gun sound in technical as well as management part of an industry.

#### List of Laboratories

Sr. No.	Name of Laboratory
1.	CAD / CAM Lab
2.	Engineering Metallurgy
3.	Metal Cutting
4.	Automation Lab
5.	Metrology & Quality Control
6.	Foundry & Low Pressure Die Casting Lab
7.	Die & Mould Design
8.	Non traditional Machining Lab
9.	Robotics & CNC / CIM Lab
10.	Engineering Graphics Hall
11.	Machine Drawing Hall

#### Multi user Computer Softwares available in the department

- ❖ Pro-Engineer Wildfire 4.0 (25 seats)
- ❖ Hyper works R10 (07 seats)
- ❖ MATLAB7 0.1
- ❖ Stat Graphics Software
- ❖ Autodesk Inventor Professional 10
- ❖ Autodesk Mechanical Desktop 2006
- ❖ Master CAM Software
- ❖ Autodesk AutoCAD2006 (20 Seats)
- ❖ Witness Simulation Software

#### Major Equipment

- ❖ Electric Discharge Machining (EDM)
- ❖ Plazma Cutting Machine
- ❖ Computer Microscope with the CCTV
- ❖ Carbon Sulphur Apparatus
- ❖ Brinell Hardness Tester
- ❖ Pneumatic Transparent Circuit Trainer
- ❖ Hydraulic Circuit Trainer
- ❖ 6 Axes Programmable Robot
- ❖ Ds200s Sylvac with Probe P2b
- ❖ Cyber Bot Robotics equipment

## List of Faculty Members in the Department

Sr. No.	Name of Staff	Designation	Highest Qualification	Specialization & Area of Interest	Teaching Exp (Yrs)
1	Prof. Dr. K. N. Nandurkar	Professor & Principal	Ph.D.IIT Powai, M.E. (Production)	Production Management, Simulation of Manufacturing Systems, Optimization	21
2	Prof. S. B. Chandgude	Asst. Prof. & HOD (UG)	M.E (Mech./Prod Engg.)	Machine Tool Design, Process Planning, Intellectual property rights.	21
3	Prof. Dr. P. C. Kulkarni	Professor & HOD (PG)	Ph.D. IIT Kanpur, M.Tech. (Prod.)	CAD / CAM, FMS & CIM, Optimization, Automation	22
4	Prof. J. S. Jadhav	Asst. Prof.	M.E (Mechanical)	Design of Machine Elements & CAD/CAM	20
5	Prof. S. R. Gangurde	Asst. Prof.	B.E (Production), ME(Industrial Engg)	Industrial Engineering, Advanced Operation Research, Optimization	17
6	Prof. P. J. Pawar	Asst. Prof.	M.E. (Production)	CAD/CAM, Optimization, Automation, Manufacturing Process	13
7	Prof. A. S. Relkar	Asst. Prof.	M.E. (Production)	Maintenance Management, Reliability Engineering, Decision & Support system	12
8	Prof. N. B. Gurule	Asst. Prof.	M.E. (Production)	CAD/ CAM, Materials, EDM / ECM	11
9	Prof. P. S. Kalos	Lecturer	M.E. (Production)	CAD/CAM, Robotics, Intelligent Manufacturing Techniques	05
10	Prof. A. S. Kamble	Lecturer	M.E.(Production)	Production Management, machine Tool	04
11	Prof. S. B. Gunjal	Lecturer	M.E. (Production)	Metrology, Engg Materials, Metallurgy	05
12	Prof. V.R. Khawale	Sr. Lecturer	M.E. (Production)	Production Technology & Management, Graphics	13
13	Prof. A. B. Bhusnar	Lecturer	B.E. (Production), ME (Appar.)	Manufacturing Processes, Operations Research	03
14	Prof.D.R. Mahajan	Lecturer	B.E. (Production)	Automation, Graphics, Data Processing	02
15	Prof. P. G. Chavan	Lecturer	B.E. (Production)	Machine Tools, Graphics, DITP	02

## Faculty associated from other Department

Sr. No	Name of Staff	Designation	Highest Qualification	Teaching Exp (Yrs)
1	Prof. D. M. Chandwadkar	Professor	M. E. (Electronics)	19
2	Prof. Dr. S. S. Pujar	Professor	Ph.D. (Mathematics)	30
3	Prof. S. N. Kadlag	Asst. Professor	M. Sc. (Mathematics)	26
4	Prof. S. S. Naik	Sr. Lecturer	M.Sc. (Mathematics)	20

## List of Visiting Faculties

- ❖ Dr. M. V. Sulakhe Ph.D. (IITK), Professor, BVCOE, Pune
- ❖ Dr. B. S. Waghe Ph.D. Mathematics
- ❖ Mr. Rajeev Phadke M.Tech. (IE&OR) IIT Bombay
- ❖ Mr. Sabyasachi Roy M.Tech. (Material Science), IIT Kharagpur
- ❖ Mr. Balaji Mane M.Tech. (Machine Design), Director, Orbital System(Bombay) Pvt. Ltd., Nashik

## An Advisory Committee for PG course

An advisory committee of senior engineers from industry and senior faculty members from reputed institutes has been formed to guide and implement the PG programme.

- ❖ Prof. A. Subash Babu Professor in Mechanical Engineering, IIT Mumbai
- ❖ Prof. G. J. Kulkarni Vice President, Crompton Greaves Ltd., Nashik
- ❖ Dr. L. G. Navale Principal, Modern Education Society's College of Engineering, Pune
- ❖ Dr. Shailesh Deshpande Director, Intellection Software & Technologies Ltd., Pune
- ❖ Mr. S. G. Joshi Ex. GM (Technical) BOSCH Ltd., Nashik

## Structure of M.E. Production (Manufacturing & Automation) (2008 Course)

### Semester- I

CODE	SUBJECT	TEACHING SCHEME		EXAMINATION SCHEME					CREDITS
		Lect.	Pract.	Paper	TW	Oral	Pr	Total	
511101	Mathematics & Statistics	3	-	100	-	-	-	100	3
511102	CAD/CAM/CIM	3	-	100	-	-	-	100	3
511103	Advance Manufacturing Processes	3	-	100	-	-	-	100	3
511104	Elective I	3	-	100	-	-	-	100	3
511105	Elective II	3	-	100	-	-	-	100	3
511106	Lab Practice I	-	6	-	50	-	-	50	3
511107	Seminar I	-	4	-	50	-	-	50	2
	<b>Total</b>	<b>15</b>	<b>10</b>	<b>500</b>	<b>100</b>	-	-	<b>600</b>	<b>20</b>

### Semester- II

		Lectures	Practicals	Paper	TW	Oral	Pr	Total	
511108	Material Technology	3		100	-	-	-	100	3
511109	Manufacturing Management	3		100	-	-	-	100	3
511110	Industrial Automation	3		100	-	-	-	100	3
511111	Elective III	3		100	-	-	-	100	3
511112	Elective IV (Open)	3		100	-	-	-	100	3
511113	Lab Practice II	-	6	-	50	-	-	50	3
511114	Seminar II	-	4	-	50	-	-	50	2
	<b>Total</b>	<b>15</b>	<b>10</b>	<b>500</b>	<b>100</b>	-	-	<b>600</b>	<b>20</b>

### Semester- III

		Lectures	Practicals	Paper	TW	Oral	Pr	Total	
611101	Seminar III	-	4	-	50	-	-	50	2
611102	Project Stage I	-	18	-	50	-	-	50	6
	<b>Total</b>	-	<b>22</b>	-	<b>100</b>	-	-	<b>100</b>	<b>08</b>

### Semester- IV

		Lectures	Practicals	Paper	TW	Oral	Pr	Total	
611103	Project Stage II	-	18	-	150*	50	-	200	12
	<b>Total</b>	-	<b>18</b>	-	<b>150</b>	<b>50</b>	-	<b>200</b>	<b>12</b>

\* The term-work of project stage II of semester IV should be assessed jointly by the pair of internal and external examiners along with the oral examination of the same.

#### **Elective I**

1. Advance Mechatronics
2. Reliability & Failure Analysis
3. Supply Chain Management
4. Advance Machine Tool Design

#### **Elective II**

1. Advance Robotics
2. Sheet Metal processing
3. Tool and Die Design
4. Engineering Economics & Accounting

#### **Elective III**

1. Plastics Processing
2. Product Life Cycle Management
3. Welding & Joining,
4. Surface Treatment processes

#### **Elective IV**

1. Optimization Techniques
2. Research Methodologies
3. Intellectual Property Rights & Product Design
4. Energy management

## 2.2 M.E. CIVIL (STRUCTURE)

The Department of Civil Engineering is one of the oldest academic departments in the institute. In addition to the well developed undergraduate programme of B.E. in Civil Engineering, the Department offers Master of Engineering programme in Structural Engineering. The department also received approval as Research Centre in the academic year 2008-09.

The area of Structural Engineering is growing fast with new developments taking place in structural design as well as construction practice. The post-graduate programme in structural engineering at this institute comprises of qualified and motivated faculty as well as modern computational and experimental facilities. Currently, the focus of this programme is on the analytical, computational and experimental aspects of structural analysis and design. All students carry out research work for a period of one year in their Major project.

### LABORATORY AND COMPUTATIONAL FACILITIES

Modern computational facilities in the form of latest computers and software for structural analysis and design are available. Experimental research facilities include laboratory for testing concrete and other construction materials. In particular, the following advanced testing equipments are available in the materials of testing laboratory.

- Accelerated curing tank
- N.D.T. equipments
- Concrete Permeability Apparatus
- Digital compression testing machine
- Universal testing machine

### List of Faculty Members in the Department

Sr. No.	Name of Staff	Designation	Qualification	Teaching Experience Yrs.)
1	Prof. Dr. Sunil Y. Kute	Professor & Head of Department	Ph.D. (Structure)	15
2	Prof. A. L. Varne	Asst. Professor	M.E. Civil (Env.)	19
3	Prof. Dr. P. D. Jadhao	Asst. Professor	M.E. (Geotech.)	14
4	Prof. V. K. Patil	Asst. Professor	M.E. (Transp.)	10
5	Prof. V. M. Sewlikar	Lecturer	M.Sc. (Geology)	17
6	Prof. N. D. Choudhari	Lecturer	M.E. (Civil)	15
7	Prof. P. D. Dhake	Lecturer	M.E. (Structure)	09
8	Prof. K. T. Phalak	Lecturer	B.E. (Civil)	06
9	Prof. S. R. Vhatkar	Lecturer	B.E. (Civil)	05
10	Prof. Kisan L. Bidkar	Lecturer	B.E. (Civil)	17
11	Prof. Endait Mahesh	Lecturer	B.E. (Civil)	02
12	Prof. Ms. Varsha Sahane	Lecturer	B.E. (Civil)	02
13	Mr. Pande Shantanu	Lecturer	M.E. (Civil) Structure	02
14	Prof. Akhil Kumar	Lecturer	B.E. (Civil)	02
15	Prof. Mrs. Pallavi S. Joshi	Lecturer	B.E. (Civil) M.B.A.	02

## **COURSE CURRICULUM**

### **Core Courses:**

#### **Structural Mathematics**

Matrices I, Matrices II, Differential Equations, Finite Difference Method, Regression Analysis, Numerical Integration & Fourier series

#### **Advanced Solid Mechanics**

Analysis of Stress and Strains, Stress-Strain Relationship, Polar Coordinate System, Axisymmetric Problems, Torsion, Beams on Elastic Foundation

#### **Structural Dynamics**

Single degree freedom system, multiple degrees of freedom system, Continuous system

#### **Theory of Plates and Shells**

Introduction, Analysis of Rectangular Plates, Circular Plates, Classification of shells, Shells of Revolution, Circular cylindrical shells, Bending Theory, Beam theory of cylindrical shells

#### **Finite Element Method**

Principle of minimum potential energy, Two dimensional elements in plane stress / strain problems, Shape functions in Cartesian & natural coordinate systems, Axisymmetric elements in axisymmetric problems, Thin Plate bending elements, Flat & curved shell element

#### **Management in Structural Engineering**

Resource Management, Structural Health, factors affecting health of structures, Quality control & assurance of materials of structure, Structural Audit, Assessment of health of structure, Retrofitting of Structures, Safety during construction.

### **Elective Courses:**

#### **Elective 1**

1. Advanced Design of Concrete Structures
2. Structural Design of Concrete Bridges
3. Design of Composite Construction
4. Design of Foundations

#### **Elective 3**

1. Earthquake Resistant Design of Structures
2. Structural Stability
3. Structural Reliability
4. Non-Linear Analysis of Structures

#### **Elective 2**

1. Advanced Design of Metal Structures
2. Structural Design of Steel Bridges
3. Plastic Analysis and design of Steel Structures
4. Design of Industrial Steel Structures

#### **Elective 4 (Open)**

1. Mechanics of Modern Materials
2. Theory of Plasticity
3. Bio Mechanics and Bio Materials
4. Optimization Techniques

### 2.3 M.E. ELECTRICAL (CONTROL SYSTEMS)

Department of Electrical Engineering established in the year 1996, is accredited by AICTE, New Delhi in August 2003 for three years. The department has highly qualified, devoted, dedicated and experienced team of teaching faculty. Conducive environment exists in the department for both students and staff. Quality Technical Education is provided to the students in the areas of Electrical Engineering in order to meet challenges of globalization with the state-of-the-art equipments and laboratories, computational and audiovisual facilities and good interaction with industries. The Department has established Young Member Section of IET (formerly IEE), UK and Students' Chapter of IEEE (USA). Department offers consultancy services in various areas of Electrical Engineering such as Power Quality, Energy Management, Grounding and Design of Electrical Installation, Energy Conservation etc.

M.E. Electrical programme with specialization in Control Systems includes advanced topics in Control Engineering and students are exposed to latest software in the field of design, simulation and automation and take up Dissertation work related to industrial problems. Department of Electrical Engineering is recognized Research Centre of University of Pune. The programme also provides an opportunity for the students to develop research attitude and application of advanced problems solving techniques.

Students with specialization in Automation are required in Central Government Organization like DRDO, BARC, ISRO etc. Power Sector is the fastest growing sector which require Post Graduate Candidates, with Control System Specialization, for power system operation and control. Due to globalization, the industries have become quality conscious and hence PG graduates with Control System Specialization have very bright future, in India and abroad.

#### List of Laboratories

Sr. No.	Name of Laboratory
1	Control System Laboratory
2	Electrical Measurements & Instrumentation Laboratory
3	Network Analysis Laboratory
4	Software Laboratory
5	Microprocessor & Microcontroller Laboratory
6	Switchgear & Protection Laboratory
7	Electrical Machines Laboratory
8	Industrial Drives & Control Laboratory
9	Power Electronics Laboratory
10	Electrical Engineering Material & High Voltage Laboratory
11	Power System Operation & Control Laboratory
12	ME (Electrical ) Control Systems Laboratory
13	Research Laboratory

#### Multi user Computer Softwares available in the department

- ❖ PSCAD
- ❖ MATLAB 7.0.1
- ❖ ETAP
- ❖ LAB VIEW

### List of Faculty Members in the Department

Sr. No.	Name	Designation	Highest Qualification	Specialization & Area of Interest	Teaching Exp. (yrs.)
1.	Prof. Dr. B. E. Kushare	HOD & Professor	Ph. D.	Power Quality & Energy Management	21 years
2.	Prof. Dr. M. R. Roda	Professor	Ph. D.	Power Electronics, Control System	43 years
3.	Prof. A. M. Jain	Professor	M.E.	Control System	24 years
4.	Prof. Mrs. T. N. Date	Asst. Professor	M.E.	Power Electronics	20 years
5.	Prof. P. S. Dhamal	Asst. Professor	M.E.	Electrical Machines	17 Years
6.	Prof. S. S. Wagh	Asst. Professor	M.E.	Power System	09 years
7.	Prof. P. M. Sonawane	Asst. Professor	M. Tech.	Integrated Power System	11
8.	Prof. D. P. Kadam	Asst. Professor	M.E.	Power System	12
9.	Prof. N. L. Potdar	Lecturer	M.E.	Control System	22 (Ind)+10
10.	Prof. Mrs. S. M. Akolkar	Lecturer	M.E. Appea.	Control System	07
11.	Prof. Mrs. S. S. Khairnar	Lecturer	M.E. Appea.	Control System	26
12.	Prof. Mrs. N. N. Jangle	Lecturer	M.E. Appea.	Control System	09
13.	Prof. Mrs. Gauri Kathale	Lecturer	B.E.	Electrical Engineering	02
14.	Prof. J.P. Shah	Lecturer	B.E.	Electrical Engineering	03
15.	Prof. A. M. Shewale	Lecturer	B.E.	Electrical Engineering	01
16.	Prof. J. D. Patil	Lecturer	B.E.	Electrical Engineering	01

### List of Visiting Faculties

Following teachers will offer their services in teaching of PG classes

- Dr. O. G. Kulkarni, Sharda Inventions, Nashik
- Dr. R. Venkatesh, President, Power Quality Div. EPCOS, Nashik
- Dr. (Mrs.) Y. S. Apte, Ex-Professor, IIT, Mumbai
- Prof. (Dr.) B. K. Lande, VJTI, Mumbai
- Prof. (Dr.) D. B. Talange, Professor & HOD, COE, Pune
- Prof. (Dr.) J. G. Ghodekar, Ex-Principal, Govt. College of Engineering, Karad

### An Advisory Committee for PG Courses

An advisory committee comprising of senior engineer from industry and senior faculty members from reputed institutes has been formed to guide and implement the PG programme.

- Prof. (Dr.) Kannan M. Moudgalya, Professor, IIT, Mumbai
- Prof. (Dr.) J. G. Ghodekar, Ex-Principal, Govt. College of Engineering, Karad
- Dr. R. Venkatesh, President, Power Quality Div. EPCOS, Nashik
- Prof. (Dr.) D. B. Talange, Professor & HOD, COE, Pune
- Prof. (Dr.) B. N. Chaudhari, Professor of Electrical Engineering, COE, Pune
- Dr. O. G. Kulkarni, Sharda Inventions, Nashik

### ELECTRICAL ENGINEERING BOARD, University of Pune.

#### Structure of M.E. Electrical (Control Systems)

#### Semester- I

Subject Code No.	Subject	Teaching Scheme		Examination Scheme				Total marks	Credits
		Lect	Pract	Paper	TW	OR	PR		
503101	Advance Mathematical Technique for Control System	3	--	100	--	--	--	100	3
503102	Process Control Management	3	--	100	--	--	--	100	3
503103	Nonlinear Control System	3	--	100	--	--	--	100	3
503104	Elective - I	3	--	100	--	--	--	100	3
503105	Elective - II	3	--	100	--	--	--	100	3
503106	Lab. Practice - I	--	6	--	50	--	--	50	3
503107	Seminar - I	--	4	--	50	--	--	50	2
	<b>Total</b>	<b>15</b>	<b>10</b>	<b>500</b>	<b>100</b>	<b>---</b>	<b>---</b>	<b>600</b>	<b>20</b>

**Semester- II**

Subject Code No.	Subject	Teaching Scheme		Examination Scheme				Total marks	Credits
		Lect.	Pract.	Paper	TW	OR	PR		
503108	Multivariable & Optimal Control System	3	--	100	--	--	--	100	3
503109	System Identification & Adaptive Control	3	--	100	--	--	--	100	3
503110	Advanced Digital Control Technique	3	--	100	--	--	--	100	3
503111	Elective - III	3	--	100	--	--	--	100	3
503112	Elective - IV (Open)	3	--	100	--	--	--	100	3
503113	Lab. Practice - II	--	6	--	50	--	--	50	3
503114	Seminar - II	--	4	---	50	--	--	50	2
<b>Total</b>		<b>15</b>	<b>10</b>	<b>500</b>	<b>100</b>	<b>---</b>	<b>---</b>	<b>600</b>	<b>20</b>

**Semester- III**

Subject Code No.	Subject	Teaching Scheme		Examination Scheme				Total marks	Credits
		Lect.	Pract.	Paper	TW	OR	PR		
603101	Seminar - III	--	04	--	50	--	--	50	2
603102	Project Stage - I	--	18	--	50	--	--	50	6
<b>Total</b>		<b>---</b>	<b>22</b>	<b>---</b>	<b>100</b>	<b>---</b>	<b>---</b>	<b>100</b>	<b>08</b>

**Semester- IV**

Subject Code No.	Subject	Teaching Scheme		Examination Scheme				Total marks	Credits
		Lect.	Pract.	Paper	TW	OR	PR		
603102	Project Stage - II	--	18	--	150	50	--	200	12
<b>Total</b>		<b>---</b>	<b>18</b>	<b>---</b>	<b>150</b>	<b>50</b>	<b>---</b>	<b>200</b>	<b>12</b>

**Note:- The contact hours for the calculation of load of Teacher - Seminar- 01Hr / Week / Student  
Project- 02Hr / Week / Student**

- **Lab- Practice- I & Lab. Practice - II** will have minimum 10 experiments each.
- **Seminar III** will be based on the Project Work.
- The Term Work of Project stage II of semester IV should be assessed jointly by the pair of internal and external examiners, along with the oral examination of the same.

**Elective - I**

- i) Automation & Robotics                      ii) Modeling & Dynamic System

**Elective - II**

- i) Advanced Topics in Control Systems                      ii) Computer Aided Control Systems Design.  
iii) SCADA System & Applications

**Elective - III**

- i) Robust Control Systems                      ii) Stochastics Dynamical Systems                      iii) Large Scale System

**Elective - IV**

- i) Intelligent Control                      ii) Advanced Drives & Control                      iii) Open \*

\* Candidate will have option for any one of the elective subject from the existing Pune University PG programmes, either from the same Board or from any other Board, with the consent of his/her guide.

### **3. ADMISSION & ELIGIBILITY CRITERIA**

#### **3.1**

##### **A) ME Production (Manufacturing and Automation)**

- B. E. / B. Tech. degree in Production / Mechanical Engineering, Mechanical Sandwich/Production Sandwich or equivalent (as considered by Pune University). Preference will be given to candidates possessing valid GATE score in relevant branch.

##### **B) ME Civil (Structure)**

- B. E. / B. Tech. degree in Civil Engineering or equivalent (as considered by Pune University). Preference will be given to candidates possessing valid GATE score in relevant branch.

##### **C) ME Electrical (Control Systems)**

- B. E. / B. Tech. degree in Electrical Engineering/Electrical & Power/ Electronics/ Electronics & Telecommunication/ Instrumentation or equivalent (as considered by Pune University). Preference will be given to candidates possessing valid GATE score in relevant branch.

#### **NOTE:**

- 1) Diploma holders who have passed section A & B examinations of Institution of Engineers (India), Kolkata and possessing valid GATE score are also considered eligible for admission to M.E. Degree courses in the respective branches.
- 2) Admission will be effected according to the merit list prepared on the basis of valid GATE Score in the respective branch only. GATE Score of one branch will not be valid for admission in another branch.
- 3) In case, GATE qualified candidates from General Category & SC/ST are not available, the admission will be offered based on the merit list prepared after Institute test / interview to NON-GATE candidates who have applied and qualified.
- 4) Candidate claiming to belong to reserved category will be required to produce a caste certificate, caste validity certificate, Income Certificate, Non Creamy Layer certificate (if applicable) to that effect from appropriate authorities.
- 5) The admission will be given based on common merit list prepared.
- 6) Scholarship will be provided to non-sponsored GATE candidate only according to rules of AICTE, as per availability of funds from AICTE, New Delhi. The scholarship will continue to be received provided candidate fulfills the conditions prescribed by AICTE, from time to time.

#### **3.2 SPONSORED CANDIDATES**

##### **Eligibility**

- Candidates who possess Bachelor's degree in the respective or allied branch of Engineering/Technology with at least 55% marks will be eligible for admission to the course.
- In addition to the above, the candidate will have to fulfill the eligibility requirements prescribed by University of Pune, if any.
- The candidate must have minimum of 2 years of full time work experience in a registered firm / company / industry / educational and / or research institute / any Government Department or Government Autonomous Organization in the relevant field.
- A letter from the employer must be furnished stating that the candidate is being sponsored to seek admission to the postgraduate degree program (Refer Appendix 'A'). The employer should also indicate that the candidate will not be withdrawn midway till the completion of the course. The candidate will be fully under the administrative control of the institute for the period of the course.
- Only those employed candidates who, at the time of admission, are permitted by their respective organizations referred above will be eligible for claiming seats under sponsored category.
- Sponsored candidates will be required to appear for Institute Test/Interview along with the NON-GATE candidate and a common merit list will be prepared.

### 3.3 ADMISSION PROCEDURE

- Candidates will be considered for the admission on merit, based on total marks secured, out of 100 marks as indicated below  
Entrance Test            70 marks  
Interview                30 marks
- Candidate securing less than 40 marks out of 100 shall not be eligible for admission.
- If the total performance of the candidates is comparable, then the preference shall be given for the admission to the candidate who are GATE qualified and those who are serving in Engineering College, Polytechnic and Industry, in that order.

#### Stipend / Scholarship

- Sponsored candidates will not be eligible for any Stipend / Scholarship. All the rules and regulation regarding stipend/scholarship to GATE candidates will be as per AICTE directives received from time to time

#### Reserved Seats

- No reservation is provided in the sponsored category. However preference will be given to reserved category in case of equal merit.

#### Entrance Test

- Entrance test will be conducted as per the schedule prepared by the institute.
- The syllabus for the entrance test will be the UG syllabus of relevant branch as prescribed by University of Pune.
- The entrance test will be conducted at Department of Electrical Engineering, K. K. Wagh Institute of Engineering Education & Research, Nashik.

### 3.4 NUMBER OF SEATS AVAILABLE (In each course)

Category	Open	SC	ST	Sponsored	Total
Number of Seats	10	02	01	05	18

### 4. APPLICATION PROCEDURE

Application forms & brochures are available on our institute web site [www.kkwagh.org](http://www.kkwagh.org) Candidates desiring to take admission for ME programmes, can download the application form, fill it & send to the Principal KK Wagh Institute of Engineering Education & Research, Panchvati, Nashik, along with a crossed Demand Draft of Rs. 300/- drawn in favor of '**Principal, K. K. Wagh Institute of Engineering Education & Research, Nashik**' payable at Nashik. Application & Brochure are also available at the Institute office on cash payment of Rs. 300/-.

#### Note

- a) After carefully reading all the instructions given in the brochure, fill in the application form.
- b) Form should be filled neatly and cleanly.
- c) Candidate should complete the application form in all respects and attach all necessary documents. Incomplete application forms will be rejected.
- d) SC / ST candidates are requested to attach Caste / Tribe certificate along with the Caste Validity Certificate.
- e) The candidates who have appeared for their final year of graduate examination in Engineering may also submit the application form and appear for the entrance test & interview. However he / she must produce the final year marksheet/provisional passing certificate obtained from University / Institute at the time of admission.

## 5. FEES AND DEPOSITS

The fee structure will be as per the guidelines and Fee Fixation by Shikshan Shulka Samiti. The details of Fee structure will be made available in the Institute Office at the time of Written Test / Interview.

## 6. Admission Schedule

Activity	Date
Date of Notification on web Site <a href="http://www.kkwagh.org">www.kkwagh.org</a>	20/05/2010
Sale of Application Form begins	20/05/2010
Last date of submitting Forms (By post or by hand)	15/06/2010
Entrance Test and Interview	21/06/2010
Display of List of selected Candidates	22/06/2010
Last date of Admission for selected candidates	28/06/2010
Commencement of Course	10/07/2010

### NOTE:

1. Candidates appeared for final year BE can also appear for Entrance Test and interviews.
2. Application forms are also available in Institute Office on payment of Rs.300/- by cash or by DD.
3. Candidates appearing for entrance test and interview should bring all necessary documents for verification.
4. Selected candidates failing to take admission by the due date 30/06/2010 will loose their claims for admission to P.G. programme at this Institute.

## 7. CANCELLATION OF ADMISSION, HOSTEL ACCOMMODATION & DISCIPLINE

### 7.1 Cancellation of Admission & Refund of Fees

- a) If the candidate desires to cancel his/her admission for any reason whatsoever during the admission process, he/she shall be allowed to do so and it shall be presumed that admission is cancelled at that stage.
- b) The candidate desirous of canceling admission shall apply for cancellation in the Proforma-1 attached in this booklet.
- c) Fees paid shall be refunded to the candidate after deducting cancellation charges of Rs.1000/- (Rs. One thousand only) if the seat is cancelled before commencement of the classes. If the seat is canceled after commencement of the classes, proportionate fees will be deducted. However if the vacant seat created due to cancellation is not filled, no refund shall be made.
- d) Leaving Certificate will be returned to candidate at the time of cancellation of admission.

### 7.2 Hostel Accommodation

Hostel accommodation will be provided to few Post Graduate Students on first come first served basis.

Details of Fees	For Boy's Hostel	For Girl's Hostel
Room Rent	13,000/-	14,000/-
Mess Charges	11,000/-	11,000/-
Caution Money (Refundable)	2,000/-	2,000/-
<b>Total</b>	<b>26,000/-</b>	<b>27,000/-</b>

### **7.3 Conduct and Discipline**

**7.3.1** Students while studying in Engineering Institute, if found indulging in anti-national activities contrary to the provisions of acts and laws enforced by the Government, any activity contrary to rules of discipline will be liable to be expelled from the college, without any notice, by the principal of the Institute.

**7.3.2** Candidates applying for admission against the seats reserved for backward classes mentioned in these Rules should note that only those candidates who actually belong to those castes and communities will be eligible for concession, as per prevailing Government directives.

**7.3.3** If any of the statements made in application form, any information supplied by the candidates in connection with his/her admission is later on, at any time, found to be false or incorrect, his/her admission will be cancelled, fees will be forfeited and he/she may be expelled from the college by the Principal and prosecuted, if deemed necessary. An appeal against the order of expulsion, however, may be referred to the Director of Technical Education, Maharashtra State, whose decision in such cases will be final.

**7.3.4** All candidates for admission to post graduate courses in Engineering/Technology are required to give the following undertaking in the attached format:

- (a) I have read all the Rules of Admission for the current year and after understanding these rules, I have filled in this form of application for admission for the current year.
- (b) I am aware of the law regarding prohibition of ragging as well as the punishments, and if I am found guilty of offence of ragging and / or abetting ragging, I am liable to be punished appropriately.
- (c) The information given by me in my application is true to the best of my knowledge and belief.
- (d) I have not been debarred from appearing at any examination held by any Government constituted or statutory examination authority in India.
- (e) I fully understand that the offer of a course or branch of engineering will be made to me depending on merit inter-se and availability of a seat at the time of scrutiny of my application, when I will report to the admission authority according to the schedule of admission.
- (f) I understand that no other document, other than those attached to the application form before the last date of admission will be entertained for the purpose of claims/concessions etc. in connection with my admission.
- (g) I hereby agree to confirm to any rules, acts and laws enforced by Government and I hereby undertake that so long as I am a student of the College, I will do nothing either inside or outside the college, which may result in disciplinary action against me under the rules, acts and laws.
- (h) I fully understand that the Principal of the college where I would be admitted, will have right to expel / rusticate me from the college for any infringement of the Rules of conduct and prescribed by the college/university (if any).



Karmaveer Kakasaheb Wagh Education Society's

**KARMAVEER KAKASAHEB WAGH INSTITUTE OF  
ENGINEERING EDUCATION & RESEARCH**

Hirabai Haridas Vidyanagari, Amrut Dham, Panchavati, NASHIK-422 003, (Maharashtra).

Ph. No.(0253) 2516671,2512876,Fax-2511962,2621183, 2518870

Mail: [kkwe\\_office@dataone.in](mailto:kkwe_office@dataone.in) / [kkwieer@gmail.com](mailto:kkwieer@gmail.com)

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**UNDERTAKING**

**(To be enclosed with Application Form)**

I hereby give an undertaking that:

1. I have read all the Rules of Admission for the current year and after understanding these rules, I have filled in this form of application for admission for the current year.
2. I am aware of the law regarding prohibition of ragging as well as the punishments, and if I am found guilty of offence of ragging and / or abetting ragging, I am liable to be punished appropriately.
3. The information given by me in my application is true to the best of my knowledge and belief.
4. I have not been debarred from appearing at any examination held by any Government constituted or statutory examination authority in India.
5. I fully understand that the offer of a course or branch of engineering will be made to me depending on merit inter-se and availability of a seat at the time of scrutiny of my application, when I will report to the admission authority according to the schedule of admission.
6. I understand that no other document, other than those attached to the application form before the last date of admission will be entertained for the purpose of claims/concessions etc. in connection with my admission.
7. I hereby agree to confirm to any rules, acts and laws enforced by Government and I hereby undertake that so long as I am a student of the College, I will do nothing either inside or outside the college, which may result in disciplinary action against me under the rules, acts and laws.
8. I fully understand that the Principal of the college where I would be admitted, will have right to expel / rusticate me from the college for any infringement of the Rules of conduct and prescribed by the college/university (if any).

**Date:**

**(Signature)**

**Place:**

**(Name of the Candidate)**

**APPENDIX 'A'**

**Sponsorship Letter for full-time candidates  
(This should be typed on letterhead of the Sponsoring Organization)**

**CERTIFICATE FROM THE HEAD OF THE ORGANISATION**

**Mr./Ms. \_\_\_\_\_**

**who is working in this Industry / Organization / Institute, is hereby sponsored for M.E. (Full time) course in \_\_\_\_\_ for the academic session 2010-11. In case of his/her selection for the course he/she will be relieved for the complete duration of course.**

Date : \_\_\_\_\_

Signature : \_\_\_\_\_

Name : \_\_\_\_\_

Designation : \_\_\_\_\_

Office Seal: \_\_\_\_\_

**PROFORMA: 1**

Specimen application form for cancellation of admission:  
(To be submitted in duplicate)

Date:

To,  
The Principal,  
K. K. Wagh Institute of Engineering Education & Research,  
Panchavati, Nashik.

Sir,

Full name of candidate : \_\_\_\_\_  
Name of Department (Admitted) : \_\_\_\_\_  
Programme: \_\_\_\_\_ Date of Admission: \_\_\_\_\_  
Category of seat sponsored / Non sponsored: \_\_\_\_\_  
Amount of fees paid (Rs.): \_\_\_\_\_  
Fee Receipt No. & Date: \_\_\_\_\_ (Attach Xerox copy)

**Undertaking:**

I am fully aware that after cancellation, I forfeit my claim on admission in any round by competent Authority. Please refund the amount due to me after deducting the cancellation charges by Cheque / DD, after deducting commission charges, if any.

I request to kindly return my original documents.

\_\_\_\_\_  
Signature of Candidate

Received following original documents from the admission authority.

- 1.
- 2.
- 3.
- 4.

**Signature of Candidate**



Karmaveer Kakasaheb Wagh Education Society's  
**KARMAVEER KAKASAHEB WAGH INSTITUTE OF  
ENGINEERING EDUCATION & RESEARCH**

Hirabai Haridas Vidyanagari, Amrut Dham, Panchavati, NASHIK-422 003, (Maharashtra).  
Ph. No.(0253) 2516671,2512876,Fax-2511962,2621183, 2518870  
Mail: [kkwcoe\\_nsk@sancharnet.in](mailto:kkwcoe_nsk@sancharnet.in), [kkwe\\_office@dataone.in](mailto:kkwe_office@dataone.in) WEBSITE: [www.kkwagh.org](http://www.kkwagh.org)

**APPLICATION FOR ADMISSION TO FIRST YEAR MASTER OF ENGINEERING  
COURSE OF UNIVERSITY OF PUNE FOR THE YEAR 2010-2011**

Date of Reporting: \_\_\_\_\_

Institute PR No. 

--	--	--	--	--	--	--	--

**Course for which admission is sought** {√ Tick mark in appropriate box}:

- ME Production (Manufacturing & Automation)**  
 **M.E. Civil(Structure)**  
 **M.E. Electrical (Control Systems)**

Paste the  
Photograph inside  
the box only

Don't Staple or Pin  
the photograph

1. Name of the student: \_\_\_\_\_

2. Address

Correspondence Address	Permanent Address (Where parents Stay)
_____	_____
_____	_____
_____	_____
PIN _____ Ph.No. R. _____	PIN _____ Ph.No. R- _____
PP. _____	PP. _____
Mob. _____	Mob. _____
E-mail ID: _____	E-mail ID: _____

3. Date of Birth: \_\_\_\_\_ Age: \_\_\_\_\_ Birth Place & District: \_\_\_\_\_  
{√ Tick mark in appropriate box, as applicable}

a) Male  Female  b) GATE  Non Gate

c) Open  SC  ST  OBC  Others  (Write Category)

d) Are you a Sponsored Candidate Yes/No \_\_\_\_\_  
If "Yes" complete item 4, if no skip item 4.

4. Details of Post held \_\_\_\_\_

Organization \_\_\_\_\_

Work Experience: Industrial - Year \_\_\_\_\_ Month \_\_\_\_\_  
Teaching - Year \_\_\_\_\_ Month \_\_\_\_\_

5. a) Details of Qualifying Examination:

Year of Passing	Degree Obtained	Branch	University	% of Marks Obtained	Remarks if any

b) Details of GATE Score on the basis of which admission is being sought.

Year \_\_\_\_\_ Branch \_\_\_\_\_ Percentile \_\_\_\_\_

(Student to keep three sets of attested Xerox with them for subsequent use)

**DECLARATION**

- 1) I hereby declare that I have carefully read and understood the instruction and particulars supplied to me by the Institute and all entries filled by me in this form are true to the best of my knowledge and belief.
- 2) I am aware of the law regarding prohibition of ragging as well as the punishments, and if I am found guilty of offence of ragging and / or abetting ragging, I am liable to be punished appropriately.
- 3) I Will strictly adhere to the rules, regulations and discipline of the Institute

Place: NASHIK

Date: \_\_\_\_\_

Signature of the student

**Attested copies of certificate Enclosed:**

{√ Tick mark in appropriate box, as applicable}

- |  |                          |                                |                          |
|--|--------------------------|--------------------------------|--------------------------|
| 1. Qualifying Exam Certificate         | <input type="checkbox"/> | 6. Caste Certificate           | <input type="checkbox"/> |
| 2. GATE Score Card                     | <input type="checkbox"/> | 7. Caste Validity Certificate  | <input type="checkbox"/> |
| 3. Mark List Of Qualifying Examination | <input type="checkbox"/> | 8. Migration Certificate       | <input type="checkbox"/> |
| 4. Copy of Transfer Certificate        | <input type="checkbox"/> | 9. Work Experience Certificate | <input type="checkbox"/> |
| 5. Sponsorship Certificate             | <input type="checkbox"/> |                                |                          |

Verified by

Scrutiny Officer

**Sign. of Admission I/c**

**Student Section**

**Admitted / Not Admitted**

**(Official Use)**

HOD's Remark: \_\_\_\_\_

**(Student has to fill this column)**

**Sign. of HOD**

**Provisionally admitted /Not admitted** \_\_\_\_\_

**Admission I/C / Student Sect.**

**PRINCIPAL**

Accounts Remarks –

Fees Paid Rs. \_\_\_\_\_

1000 X	
500 X	
100 X	
50 X	
20 X	
10 X	
5 X	
2 X	
1 X	
<b>Total Rs.</b>	

Fee Dues: \_\_\_\_\_ D.D. No. \_\_\_\_\_ Date: \_\_\_\_\_

Receipt No. \_\_\_\_\_ Date \_\_\_\_\_ Bank: \_\_\_\_\_ For Rs. \_\_\_\_\_

D.D. No. \_\_\_\_\_ Date: \_\_\_\_\_ Bank: \_\_\_\_\_ For Rs. \_\_\_\_\_

**Cashier's Signature**