

# SCHOLARSHIP TEST-2015

## ENTRANCE FORM

APPLICATION FORM FOR PLACEMENT ORIENTED TRAINING PROGRAM  
 (THE APPLICATION FORM SHOULD BE FILLED IN CAPITAL LETTER AND ONLY BY BLUE/ BALL PEN.)

The photograph  
 should be self-attested

### 1. APPLICANT NAME


### 2. FATHER'S NAME


### 3. MOTHER'S NAME


### 4. ADDRESS FOR CORRESPONDANCE

HOUSE No.	<input type="text"/>	STREET/ VILLAGE	<input type="text"/>
POST OFFICE	<input type="text"/>	BLOCK/ULB	<input type="text"/>
POLICE STN.	<input type="text"/>	DISTRICT	<input type="text"/>
STATE	<input type="text"/>	PIN CODE	<input type="text"/>

TELEPHONE (WITH STD CODE)

MOBILE (FOR SMS SERVICE)

E-MAIL ADDRESS

### 5. PERMANENT ADDRESS

HOUSE No.	<input type="text"/>	STREET/ VILLAGE	<input type="text"/>
POST OFFICE	<input type="text"/>	BLOCK/ULB	<input type="text"/>
POLICE STN.	<input type="text"/>	DISTRICT	<input type="text"/>
STATE	<input type="text"/>	PIN CODE	<input type="text"/>

**6. PERSONAL DETAILS**

a. GENDER

c. DOB

**7. EDUCATIONAL QUALIFICATION**

	PASSING YEAR	BRANCH	SCHOOL/COLLEGE NAME	PLACE/ADDRESS	AGGREGATE
10th class					
12th class					
B.Tech/ Diploma					

\*\* No. of back-log (if any)

8. NATIONALITY

9. MOTHER TONGUE

10. FATHER'S OCCUPATION

11. MOTHER'S OCCUPATION

12. ANNUAL INCOME OF THE PARENTS (TOGETHER) IN Rs.

13. INTERESTED IN (choose any one)

a. 1 Year Course

b. 6 Month Course

(for details of these courses go through the SCHOLARSHIP – 2015 PDF i.e. available on website)

**DECLARATION**

I hereby declare that all the information given above is best of my knowledge.

APPLICANT SIGNATURE

**INSTRUCTIONS FOR APPLYING POST GRADUATE DIPLOMA IN INDUSTRIAL  
AUTOMATION (ONE YEAR) / CERTIFIED INDUSTRIAL AUTOMATION ENGINEER  
(SIX MONTHS)**

**IMPORTANT DATES**

Last Date for submission of Exam Application Form: 20.06.2015

Examination date : 05.07.2015 (i.e. Sunday)

**ELIGIBILITY**

Disciplines: Electrical/ electronic/ instrumentation /mechanical (Pass Outs  
2013/2014/2015)

Qualification: Min. 60% in B.Tech/ Diploma

Seats: 30 students (scholarship based)

1 Year Course(10): FOR POST GRADUATE DIPLOMA IN INDUSTRIAL AUTOMATION  
ENGINEER

6 month Course(20): FOR CERTIFIED INDUSTRIAL AUTOMATION ENGINEER

**EXAM FEES** Rs. 100/- (in cash/DD)

**TEST DURATION & PATTERN**

EXAM	SUBJECT	NO. OF QUESTIONS	TIME
1.	<b>Technical</b> –Electrical (50%) /Electronics (30%)/Instrumentation (20%) <b>Non-Technical</b> - General Ability/ Aptitude/Reasoning <b>SJT(Situational Judgement Test)</b>	100 questions (95 MCQ + 5 SJT)	10:00am - 12:00pm

**GENERAL INSTRUCTIONS**

- ❖ For more details log on to website [http:// www.vasautomations.com](http://www.vasautomations.com)
- ❖ Submission of application form is up to 20.06.2015 only.
- ❖ The examination form can be downloaded from web - [www.vasautomations.com](http://www.vasautomations.com), or taken from Prime Vision Automation Solutions Pvt. Ltd., Jaipur (Durgapura) office
- ❖ The student can submit their application form and fees (in cash/DD) at Prime Vision Automation Solutions Pvt. Ltd, Jaipur office or they can send by courier/speed post/post.
- ❖ Acknowledgement form/Admit Card will carry all the important information regarding this PLACEMENT ORIENTED TRAINING PROGRAM (Date/ Time / Place/ Schedule) and it will be mailed on your e-mail-id and post on your permanent address.
- ❖ The photograph on the application form should be coloured & recent.
- ❖ Candidates are required to bring their original voter ID/Aadhar UID/College ID /PAN card for verification. It will be required for photo identification.
- ❖ Cell phones, calculator or any kind of electronic devices are strictly prohibited in exam hall.
- ❖ Candidates are required to reach 15 minutes before the commencement of examination.
- ❖ For any kind of query related to courses and fee structure of training you can go through our website.

# Scholarship test-2015 Syllabus

## **PART 1:**

1. **Electrical machines :** Single phase transformer - equivalent circuit, phasor diagram, tests, regulation and efficiency; three phase transformers - connections, parallel operation; auto-transformer; energy conversion principles; DC machines - types, windings, generator characteristics, armature reaction and commutation, starting and speed control of motors; three phase induction motors - principles, types, performance characteristics, starting and speed control; single phase induction motors; synchronous machines - performance, regulation and parallel operation of generators, motor starting, characteristics and applications; servo and stepper motors.
2. **Control System:** Principles of feedback; transfer function; block diagrams; steady-state errors; Routh and Niquist techniques; Bode plots; root loci; lag, lead and lead-lag compensation; state space model; state transition matrix, controllability and observability.
3. **Circuit analysis & Fields:** Network graph, KCL, KVL, node and mesh analysis, transient response of dc and ac networks; sinusoidal steady-state analysis, resonance, basic filter concepts; ideal current and voltage sources, Thevenin's, Norton's and Superposition and Maximum Power Transfer theorems, two-port networks, three phase circuits; Gauss Theorem, electric field and potential due to point, line, plane and spherical charge distributions; Ampere's and Biot-Savart's laws; inductance; dielectrics; capacitance.
4. **Power Electronics:** Semiconductor power diodes, transistors, thyristors, triacs, GTOs, MOSFETs and IGBTs - static characteristics and principles of operation; triggering circuits; phase control rectifiers; bridge converters - fully controlled and half controlled; principles of choppers and inverters; basis concepts of adjustable speed dc and ac drives.
5. **Analog & Digital Electronics:** Characteristics of diodes, BJT, FET; amplifiers - biasing, equivalent circuit and frequency response; oscillators and feedback amplifiers; operational amplifiers - characteristics and applications; simple active filters; VCOs and timers; combinational and sequential logic circuits; multiplexer; Schmitt trigger; multi-vibrators; sample and hold circuits; A/D and D/A converters; 8-bit microprocessor basics, architecture, programming and interfacing.
6. **Transducers, Mechanical Measurement And Industrial Instrumentation:** Resistive, Capacitive, Inductive and piezoelectric transducers and their signal conditioning. Measurement of displacement, velocity and acceleration (translational and rotational), force, torque, vibration and shock. Measurement of pressure, flow, temperature and liquid level. Measurement of pH, conductivity, viscosity and humidity.

## **PART 2:**

1. Quantitative Aptitude
2. Verbal Reasoning