



**GOVERNMENT COLLEGE OF ENGINEERING,
AURANGABAD-431 005 (M.S.)**

"In Pursuit of Global Competitiveness"

☎: (0240) 2366111, Fax: (0240) 2332835

E-mail: qip_geca@e-gecaect.com Website: <http://www.geca.ac.in>

No.GECA/App.Mech./QIP/2018/332

Date:30/12/2017

Sub:Advance Admission to Ph.D. Programmes for the academic year 2018-19(Final Admission:2019-20)

List Of Candidates for QIP interview and Written test

Ph.D. admission under QIP for the academic year 2018-19(Final Admission:2019-20)

1)Electrical Engineering Department(GAEE01)

Application Number	Name of Candidate	Adress	Mail-id and Phone Number
51663	WADMARE GANESH	C-601,Vrundavan Park,Plot-09,Sector- 34,kamothe, Navi mumbai	gwadmare@somaiya.edu 8879492888
51576	INAMDAR MIRAJODDIN USMAN	ASHOKA NEWS,F- 204 KONDHWA KHURD, PUNE- 411048.Maharashtra	Muinamdar11@gmail.com 9130504310


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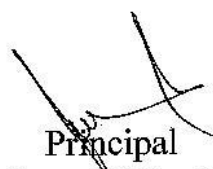
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1)Civil Engineering Department(GACE01)

Application Number	Name of Candidate	Adress	Mail-id and Phone Number
50697	RUTUJA YOGESH PATIL	A 302,Sai Angan CHS Opp Kunal Icon Pimple Saudanagar pune- 411027	rituja_C1@yahoo.co.in 9404002274
50375	GUNWARE PRAVIN DNYANDEO	Sankalp Hanumannagar Shrigonda,Ahemadnagar	Pravin_gunaware@rediffmail.com 9420796377


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1)Electronics Engineering Department(GAEC01)

Application Number	Name of Candidate	Adress	Mail-id and Phone Number
50119	PAIKRAO PRASHANT LAXMANRAO	Government College Of Engineering,Amravati Siddhivinyak Nagar,Kathora Naka,Amravati- 444604.Maharashtra	plpaikrao@gmail.com 8983200880
50268	HRISHIKESH VANJARI	Navsahyadri Education Society,FOE Sr.No 69,70,71 Nasarapur,Tal- Bhor,Dist-Pune Maharashtra	hrishikesh@outlook.in 8983349587
50596	SHRENIK SURESH SARADE	Kavathe piran,Miraj Sangli:415311 Maharashtra	Shreniks2k7@rediffmail.com 9011464838
51028	M PRAVEEN KUMAR	Chinna Korukondi Khammam-507209	praveenkumarjw@gmail.com 9704387060

		Maharashtra	
51576	INAMDAR MIRAJODDIN USMAN	ASHOKA NEWS,F- 204 KONDHWA KHURD, PUNE- 411048.Maharashtra	<u>Muinamdar11@gmail.com</u> 9130504310
51611	BAKALE RAVINDRA SUBHASH	BANSILAL NISALE HOSPITAL AMBAJOGAI TQ. AMBAJOGAI BEED- 431517 Maharashtra	<u>Ravindra.bakle@gmail.com</u> 8806662550


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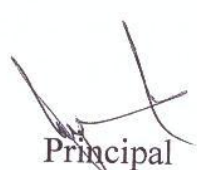
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SCHEDULE FOR WRITTEN TEST/INTERVIEW 11th MARCH 2018

Time	Activity	Venue
11.00-11.30	Reporting Of Candidates	App.Mech.Dept.GECA
12.00-2.00pm	Written test(Civil/Elect)	
2.30-4.30pm	Written Test(Electronics)	Computer Lab.APP.Mech.Dept.
4.30-5.00Pm	Scrutiny Of Documents	Concrete Technology Lab.GECA
5.00Pm onwards	Interview	Computer Lab.APP.Mech.Dept.

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Syllabus for Entrance Examination
Ph.D. - Civil Engineering
Academic year 2018-19 (Final Admission:2019-2020)

(Total marks 70)

Fluid Mechanics and Water Resources Engineering: Fluid kinematics, Fluid dynamics, Flow through pipes, Evapo-transpiration, Hydrographs, Confined and unconfined aquifers, Delta, Duty, Determination of duty, Various methods of applying water to crops and their comparison, Causes and effects of water logging, Its remedial measures, Gravity dams, Earth dams, Spillways, Canals
Environmental Engineering: Water and wastewater treatment, Air pollution and control, Industrial waste treatment, Solid waste management
Optimization Techniques: Linear programming, Non linear programming, Dynamic programming, Simulation
Geotechnical Engineering and Foundation: Properties and classification of soils, Shear strength parameters of soil and stress distribution in soils, Compaction, Consolidation, Earth pressure and stability of slopes, Bearing capacity, Pile foundation, Raft foundation
Transportation Engineering
Bridge: Types of bridges, Selection of bridge site, Flood discharge, Water way calculations, Afflux, scour, River training works Highway: Highway planning and financing, Highway alignment and geometric design, Highway material soil and its characteristics, Flexible and rigid pavement, Pavement construction and construction machinery
Construction Management
Construction scheduling and network analysis, Resource and financial management, Project appraisal and development, Safety engineering, Site layout and Management Information System (MIS), Surveying: Leveling, Theodolite, Contours, Photogrammetry, Geographical Information System and Remote sensing

Syllabus for Entrance Examination
Ph.D. - Electrical Engineering
Academic year 2018-19 (Final Admission:2019-2020)

(Total marks 70)

1. Engineering Mathematics : Linear Algebra, Calculus Differential equations, Complex variables, Probability and Statistics Numerical Methods, Transform Theory
2. Electric Circuits and Fields: Network graph, node and mesh analysis, transient response of dc and ac networks, sinusoidal steady-state analysis, resonance, basic filter concepts, ideal current and voltage sources, Network theorems, 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.
3. Electrical Machines: Single phase transformer, three phase transformers, instrument transformers, energy conversion principles, DC machines, induction motors, synchronous machines, parallel operation of generators, motor starting, characteristics and applications, servo and stepper motors, special machines, electrical drives
4. Power Systems: Basic power generation concepts, transmission line models and performance, cable performance, insulation, corona and radio interference, distribution systems, per-unit quantities, bus impedance and admittance matrices, load flow, voltage control, power factor correction, economic operation, symmetrical components, fault analysis, power system protection and switch gear, HVDC transmission and FACTS concepts, power quality, Harmonics in power systems, Renewable energy systems.
5. Control Systems & Instrumentation : : Representation of continuous and discrete-time signals, shifting and scaling operations, linear, time-invariant and causal systems, Fourier series representation of continuous periodic signals, sampling theorem, 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, Bridges and potentiometers, PMMC, moving iron, dynamometer and induction type instruments, measurement of voltage, current, power, energy and power factor, digital voltmeters and multimeters, phase, time and frequency measurement, Q-meters, oscilloscopes, potentiometric recorders, error analysis.
6. Analog and 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. Semiconductor power diodes, transistors, thyristors, triacs, GTOs, MOSFETs and IGBTs, Converters

Syllabus for Entrance Examination

Ph.D. - Electronics

Academic year 2018-19 (Final Admission:2019-2020)

(Total marks 70)

1. Small and large signal amplifiers , Feedback, Oscillators, Wave shaping networks and their applications, Converters, Power devices and circuits, Electronic test and measuring instruments,
2. Digital Electronics: Logic families and circuits, Combinational and sequential logic circuits, Microprocessors 8086 and peripherals, Microcontroller 8051, Embedded system design concept and implementations, Z transform, DFT, Digital Filters, Parallel processing
3. Communication Engineering : Base bands, Electromagnetic Engineering , Analog and Digital Communications, Information and detection theory, Microwaves, Radar and Satellite Communication, Computer and Optical Communications, Television Engineering, Electronic Exchanges, ISDN, Computer networking, Network management, PCM TDMA, FDMA, SDMA, CDMA , Microwave Engineering, Mobile communication
4. Signal Processing :FIR filters, IIR filters, Power spectrum estimation, Signal Processing Applications
5. State machine, Modeling, Logic simulation, Fault modeling, Different controllers, Computer analysis of control system design , Aspects of control theory, Transfer function approach ,State space approach, Digital controller design.

Dr. Harman