



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
ANANTHAPURAMU-515 002**

**Office of the Directorate
Research & Development,
JNTUA, Ananthapuramu.**

Lr.No. JNTUA/R&D/Ph.D./ Registration form/ 2017-18 /dt: 18-09-2017.

IMPORTANT CIRCULAR / NOTICE

It is hereby informed that all the Research Scholars of **Ph.D./ M.Phil/ M.S** who have admitted in the academic year **2016-17** are requested to submit Registration forms opting the Subjects from **Part-1 & Part-II**. Filled in Registration forms along with necessary syllabus copies (**Part-I & Part-II**) signed by the both the Research supervisors with Seal **should reach on or before 04-10-2017** to the Director, R&D., JNTUA, Ananthapuramu. This may be treated as most important. List of Subjects discipline wise of "**Part-I & Part-II**" is herewith enclosed.

Encl: As above



Director

Research & Development



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
ANANTHAPURAMU – 515 002, A.P.
RESEARCH & DEVELOPMENT

FORMAT

(Full-Time/ External)

- 1) Name of the Scholar (Block letters) : _____
- 2) Admn.No. : _____
- 3) Date of Registration : _____
- 4) Discipline (Ph.D/ M.Phil./M.S. Registrations) : _____
- 5) Research Topic (As per Admission letter) : _____
- 6) Postal Address : _____

Mobile no: _____ E-Mail.ID: _____

- 7) Name of the Supervisor &Address : _____
- _____

Mobile no: _____ E-Mail.ID: _____

- 8) Name of the Co-Supervisor &Address : _____
- _____

Mobile no: _____ E-Mail.ID: _____

- 9) Pre-Ph.D. Papers Selected: (See: www.jntua.ac.in web site Under R&D Portal)

Paper-I:-

Form-Part-I (with Subject Code) : _____ ()

Paper-II:-

Form-Part-II (with subject code) : _____ ()

Paper-III:-

- 1) Research Methodology

Paper-IV:-

- 1) Intellectual Property Rights

} (Common papers for all Ph.D./ M.Phil./ M.S Scholars)

Signature of the Candidate

Signature of the Co-Supervisor
(With Seal)

Signature of the Supervisor
(With Seal)

Note: Selection of Pre-Ph.D paper (I & II) is final, the university will not entertain under any circumstances, for change of Pre-Ph.D. Subjects.

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
ANANTHAPURAMU**
Pre-Ph.D./M.Phil/ M.S/ Scholars admitted during the Academic -2016-17 Batch
List of Subjects in Part-I & Part-II Discipline Wise Subjects allotted

Civil Engineering

S.No	Part-I	Part-II
1	Concrete Technology(09PH01101)	Advanced Foundation Engineering (09PH01201)
2	Urban Drainage and Waste Water Treatment(09PH01102)	Traffic Engineering(09PH01202)
3	Water Resources Systems Planning and Management(09PH01103)	Geo-Environmental Engineering(09PH01206)
4	Ground Improvement Techniques(09PH01104)	Ground Water Management & Modelling(09PH01207)
5	Highway Infrastructure Design(09PH01105)	Rehabilitation and Retrofitting of Structures(09PH01209)

Electrical Electronics Engineering

S.No	Part-I	Part-II
1	Restructured Power System(09PH02101)	Facts Controllers and Their Applications(09PH02201)
2	Power System Dynamics and Stability(09PH02102)	Power Quality(09PH02203)
3	Modern Control Theory(09PH02103)	Power Electronic Control of AC Drives (09PH02208)
4	Principles of Machine Modelling and Analysis(09PH02104)	Adaptive and Learning Control (09PH02212)
5	Renewable Energy Sources(09PH02105)	Reliability Optimization(09PH02213)

Mechanical Engineering

S.No	Part-I	Part-II
1	Thermal Engineering(09PH03101)	Heat and Mass Transfer(09PH03202)
2	Mechanical Engineering Design(09PH03102)	Mechanical Vibrations and Condition Monitoring(09PH03205)
3	Advanced Production Technology (09PH03104)	Design for Manufacture(09PH03206)
4	--	Advanced Optimization Techniques (09PH03210)
5	--	Computational Methods(09PH03215)
6	--	I.C. Engine & Alternative Fuels (09PH03203)

Electrical Communication Engineering

S.No	Part-I	Part-II
1	Digital Data Communications and Networks(09PH04101)	Wireless Communications (09PH04201)
2	Electromagnetics and Microwave Engineering(09PH04102)	Advanced Computer Networks (09PH04203)
3	Micro Electronics(09PH04103)	Digital IC Design(09PH04207)
4	Concepts of Signal and Image Processing(09PH04104)	Advanced Digital Signal Processing(09PH04210)
5	Instrumentation and Embedded Systems(09PH04105)	Digital Image Processing(09PH04212)

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Computer Science and Engineering

S.No	Part-I	Part-II
1	Software Engineering(09PH05101)	Advanced Computer Networks(09PH05201)
2	Mathematical Foundations for Computer Science(09PH05102)	Distributed Computing (09PH05202)
3	Database Management Systems(09PH05103)	Data Warehousing and Data Mining (09PH05206)
4	Data Structures and Algorithms(09PH05104)	Software Testing (09PH05209)
5	--	Digital Image Processing(09PH05214)

Chemical Engineering

S.No	Part-I	Part-II
1	Advanced Reaction Engineering & Reactor Design(09PH08102)	Membrane Technology (09PH08207)
2	Process Modeling, Simulation and Optimization(09PH08103)	Instrumental Methods of Analysis(09PH08209)
3	Industrial Pollution and Control in Process Industries (09PH08105)	Fluidization Engineering(09PH08210)
4	--	Nanotechnology(09PH08211)
5	--	Safety and Risk analysis in Process Industries(09PH08215)

Bio - Technology

S.No	Part-I	Part-II
1	General and Industrial Microbiology(09PH23102)	Bioinformatics and Computational Molecular Biology(09PH23201)
2	Bioprocess Engineering Principles(09PH23104)	Genetic Engineering(09PH23202)
3	Biochemical and Biophysical Techniques(09PH23105)	Downstream Processing(09PH23208)
4	--	Microbial Biotechnology(09PH23210)
5	--	Environmental Biotechnology(09PH23211)

English

S.No	Part-I	Part-II
1	Research Methodology and Literary Criticism (09PH52101)	ELT and Effective Communication through CALL and soft Skills (09PH52201)
2	ELT Course and Research Methodology (09PH52102)	Writers of Diaspora (09PH52203)
3	--	Indian Writing in English (09PH52204)
4	--	American Literature (09PH52205)

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Mathematics

S.No	Part-I	Part-II
1	Topics in Analysis (09PH54101)	Discrete Mathematics and Graph Theory (09PH54203)
2	Mathematical Methods (09PH54102)	Applied Algebra (09PH54204)
3	--	Fluid Mechanics (09PH54205)
4	--	Operations Research (09PH54207)

Physics

S.No	Part-I	Part-II
1	Classical and Statistical Mechanics(09PH56101)	Nano Science And Technology(09PH56201)
2	Electromagnetic Theory(09PH56103)	Condensed Matter Physics(09PH56202)
3	Quantum Mechanics(09PH56104)	Lasers, Holography and Fiber Optics(09PH56204)
4	Physics of Semi Conductor Devices (09PH56105)	Material Science and Applications(09PH56206)
5	--	Thin Film Technology(09PH56213)

Chemistry

S.No	Part-I	Part-II
1	Advanced Instrumental Methods for Chemical Characterization and Analysis(09PH51101)	Analytical Chemistry(09PH51201)
2	--	Inorganic Chemistry(09PH51203)
3	--	Heterocyclics and Natural Products (09PH51205)
4	--	Physical Chemistry(09PH51206)
5	--	Environmental Chemistry(09PH51207)

Management Sciences

S.No	Part-I	Part-II
1	Principles of Management & Organizational Behaviour (09PH55106)	Strategic Human Resource Management (09PH55201)
2	Strategic Management (09PH55102)	Security Analysis and Portfolio Management (09PH55205)
3	--	Customer Relationship Management (09PH55209)

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Food - Technology

S.No	Part-I	Part-II
1	Chemistry of Foods.(09PH53101)	Food Biochemistry and Nutrition(09PH53205)
2	Analysis of Foods. Including Instrumentation(09PH53102)	Food Microbiology(09PH53206)
3	Food Preservation Technology(09PH53103)	Plantation Products and Flavor Technology.(09PH53207)
4	--	Food Processing Engineering(09PH53208)
5	--	Packaging Technology Including Food Laws.(09PH53209)

Pharmacy

S.No	Part-I	Part-II
1	Instrumental Methods of Pharmaceutical Analysis (09PH00101)	Advanced Pharmaceutics(09PH00201)
2	Biological Screening Methods (09PH00102)	Advanced Pharmaceutical & Medicinal Chemistry(09PH00202)
3	--	Advanced Pharmacology & Toxicology(09PH00203)
4	--	Advanced Pharmaceutical Analysis(09PH00204)
5	--	Advanced Pharmacognosy(09PH00206)

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