

IKGPTU/RIC/5568
Dt 26/8/16

DEAN (RIC)



I.K.G.PUNJAB TECHNICAL UNIVERSITY
Jalandhar-Kapurthala Highway,
Kapurthala - 144 601 (PB.)
Phone No. 01822- 662558


Ref. No. IKGPTU/RIC/5568

Dated: 26/8/16

NOTICE

This is for the information of all concerned, whose PhD interview result for enrolment in Ph.D. was declared in August 2015 (result valid up to 31st July 2016), November 2015 (result valid up to 18-11-2016) and whose PhD interview result has been declared in July 2016. Online provisional registration form will be activated from 31st August 2016. The last date for applying online for above mentioned batches for Provisional Registration and depositing online fee is **9th September 2016 (Friday)** for the session **July-December, 2016**. The last date for submitting hard copy of the same along with consent of supervisor in the Office of Dean (RIC), 3rd Floor, IKGPTU, Kapurthala-Jalandhar, Kapurthala, is **13th September 2016 (Tuesday)**. All eligible candidates can apply online for provisional registration form through the link <http://ptu.ac.in/PhdAdmissions.aspx> or http://ptu.phdonline.in/login_provisional.php.

NOTE: All applications received after the last date, will be considered for the semester Jan-June 2017 (Except whose PhD interview result is valid up to 31-07-2016).


Dean (RIC) 26/08/16

Enclosed:-

1. Revised Pre-Ph.d. course work structure
2. Fee Structure

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITYEstd. Under Punjab Technical University Act, 1996
(Punjab Act No. 1 of 1997)

Ref. No. : IKGPTU/Reg/N/

Dated :

NOTIFICATIONSub: **Regarding Pre-Ph.D Course work.**

This is for information of all concerned that Pre-Ph.D course work from 2016-17 will be conducted in the IKGPTU main campus Kapurthala in regular mode. The PhD course work will consists of minimum 15 credits. The structure of the course work is as under.

Sr. No.	Nature of course	Name of course	Credits	Remarks
1.	Core	1. Research Methodology	4	The syllabus of RM should be formulated faculty wise such as Engineering, Science, Management/ Humanities and Life sciences
		2. Subject related theory paper	4	Discipline specific related to advancements in theoretical methods for research
		3. Presentation	3	Discipline specific
2.	Interdisciplinary	4. Elective	4	From list of subjects from allied fields
Total Minimum credits			15	

-Sd-
Registrar

Endorsement No: IKGPTU/REG/N/4244-4251

Dated: 22.08.2016

- Secretary to Vice Chancellor: For kind information of Vice Chancellor
- Dean (P&D)
3. Dean (RIC)
- Dean (Academics)
- Finance Officer
- Controller of Examination
- DR (Computers): For uploading on website
- File Copy

IKG
27/8/16
MR
Mr. Tulel

Registrar
18/8/16

I.K.G. PUNJAB TECHNICAL UNIVERSITY
Department of Research Innovation & Consultancy

Revised Fee Structure from 2014-15 for PhD Programme

1. Application form fee for admission: 2000/-
2. Pre-registration fee (Provisional Registration) 25000/-
(Including 6000/- for semester fee & 100/- ID card fee in advance)
3. Course work fees 30000/- (10000/- per subject) paid at PTU.
4. Annual Fee Rs. 6000/- per semester.
5. Thesis submission 25000/-

6. **Late Fees for:**
 - A. Annual report submission-fee 500/- per month
 - B. Semester Fee-100/- per month.
 - C. Extension for synopsis = 10000/- By six months.
 - D. Synopsis topic modification fee = 5000/- after submission of synopsis.
 - E. Three months extension for submission of thesis = 1000/- within five year after
Successfully defend of pre-thesis.
 - F. Extension for submission of thesis for 6th year = 15000/-
 - G. Extension for submission of thesis for 7th year = 15000/-

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY, KAPURTHALA**Department of Research, Innovation & Consultancy**

List of supervisors, who have vacant slots for the session July-Dec 2016 (as per UGC regulations, May 2016)

S. No.	Supervisor ID	Discipline	Name	Designation	College / Institution
1	11020002	Engg.- Civil Engg.	Dr. Jagadanand Jha	Professor	GNDEC, Ludhiana
2	11020004	Engg.- Civil Engg.	Dr. Harpal Singh	Professor	GNDEC, Ludhiana
3	11020006	Engg.- Civil Engg.	Dr. Jagbir Singh	Associate Prof.	GNDEC, Ludhiana
4	11020010	Engg.- Civil Engg.	Dr. Hardeep Singh Rai	Professor	GNDEC, Ludhiana
5	11020011	Engg.- Civil Engg.	Dr. Sanjay Kumar	Professor & HOD	NITTTR, Chandigarh
6	11020014	Engg.- Civil Engg.	Dr. Sanjay Goel	Assistant Professor	DAVIET, Jalandhar
7	11020015	Engg.- Civil Engg.	Dr. Harvinder Singh	Associate Prof.	GNDEC, Ludhiana
8	11020016	Engg.- Civil Engg.	Dr. Dinesh Chander	Professor	IGCE, Abhipur
9	11020018	Engg.- Civil Engg.	Dr. Sanjeev Naval	Associate Prof.	DAVIET, Jalandhar
10	11020021	Engg.- Civil Engg.	Dr. Kulbir Singh Gill	Associate Prof.	GNDEC, Ludhiana
11	11030026	Engg.- Computer Engg.	Dr. Sandeep Singh Kang	Professor	GIMET, Amritsar
12	11030027	Engg.- Computer Engg.	Dr. Parminder Singh	Assistant Professor	CEC, Landran
13	11030044	Engg.- Computer Engg.	Dr. Bikrampal Kaur	Professor	CEC, Landran College. Landran, Mohali
14	11030049	Engg.- Computer Engg.	Dr. Parminder Singh	Associate Professor	Guru Nanak Dev Engineering College .
15	11030052	Engg.- Computer Engg.	Dr. Anuj Kumar Gupta	Professor	CGC Landran
16	11030054	Engg.- Computer Engg.	Dr. Rajesh Kumar Singh	Associate Professor	SUSCET Tangori
17	11030058	Engg.- Computer Engg.	Dr. Rohit Bajaj	Associate Professor	Chandigarh Engg. College Landran, Mohali
18	11030063	Engg.- Computer Engg.	Dr. Amit Kamra	Assistant Professor	Guru Nanak Dev Engineering College.
19	11040007	Engg.- Electrical Engg.	Dr. Kanwardeep Singh	Assistant Professor	GNDEC Ludhiana
20	11040015	Engg.- Electrical Engg.	Dr. Sudhir Sharma	Associate Professor	DAVIET, Jalandhar
21	11050001	Engg.- Electronics Engg.	Dr. S.S. Pattnaik	Professor	NITTTR, Chandigarh
22	11050012	Engg.- Electronics Engg.	Dr. Harbhajan Singh	Professor	Sri Sukhmani Institute of Engg. & Tech., Derabassi
23	11050022	Engg.- Electronics Engg.	Dr. Charanjeet Singh	Professor	RBCENT, Hoshiarpur
24	11050027	Engg.- Electronics Engg.	Dr. Jaswinder Singh	Associate Professor	BCET, Gurdaspur
25	11050038	Engg.- Electronics Engg.	Dr. Sandeep Singh Gill	Professor	GNDEC, Ludhiana
26	11050046	Engg.- Electronics Engg.	Dr. Hardeep Singh Saini	Professor	Indo Global College of Engineering, Abhipur.
27	11050047	Engg.- Electronics Engg.	Dr. Avtar Singh Butttar	Associate Professor	Punjab Institute of Technology, Kapurthala
28	11050049	Engg.- Electronics Engg.	Dr. Dinesh Arora	Professor	Gurukul Vidhyapeeth Group of Institute of Engg. &

S. No.	Supervisor ID	Discipline	Name	Designation	College / Institution
29	11050055	Engg. - Electronics Engg.	Dr. Mohit Srivastava	Professor	CEC, Landran, Mohali
30	11050060	Engg. - Electronics Engg.	Dr. Paras Chawla	Professor	Chandigarh Engineering College
31	11060004	Engg. - Mechanical Engg.	Dr. Pawan Kumar Sapra	Professor	CEM, Kapurthala
32	11060029	Engg. - Mechanical Engg.	Dr. Harish Pungotra	Associate Professor	BCET, Gurdaspur
33	11060032	Engg. - Mechanical Engg.	Dr. Ranjit Singh	Associate Professor	BCET, Gurdaspur
34	11060033	Engg. - Mechanical Engg.	Dr. Dilbagh Singh	Associate Professor & HOD	BCET, Gurdaspur
35	11060035	Engg. - Mechanical Engg.	Dr. R.K. Awasthi	Professor	BCET, Gurdaspur
36	11060038	Engg. - Mechanical Engg.	Dr. Jagdev Singh	Associate Professor	BCET, Gurdaspur
37	11060042	Engg. - Mechanical Engg.	Dr. Simranpreet Singh Gill	Assistant Professor	BCET, Gurdaspur
38	11060055	Engg. - Mechanical Engg.	Dr. Harpuneet Singh	A.P.	GNDEC, Ludhiana
39	11060057	Engg. - Mechanical Engg.	Dr. Tarun Goyal	Professor	SUSCET Tangori
40	11060063	Engg. - Mechanical Engg.	Dr. Paramjit Singh Bilga	Professor	GNDEC, Ludhiana
41	11060064	Engg. - Mechanical Engg.	Dr. Sukhdeep Singh Dhami	Professor	NITTTR, Chandigarh
42	11060065	Engg. - Mechanical Engg.	Dr. Sumit Jain	Professor	CTIEMT, Jalandhar
43	11060066	Engg. - Mechanical Engg.	Dr. Om Pal Singh	Professor	BCET, Gurdaspur
44	11060069	Engg. - Mechanical Engg.	Dr. Manpreet Singh-2	Professor/Principal	SVIET, Banur
45	11060075	Engg. - Mechanical Engg.	Dr. Beant Singh	Professor	Punjab College of Engg. & Tech., Lalru Mandi
46	11060077	Engg. - Mechanical Engg.	Dr. Anil Kumar	Associate Professor	Beant College of Engg. & Tech. Gurdaspur
47	11060078	Engg. - Mechanical Engg.	Dr. Naveen Beri	Associate Professor	Beant College of Engg. & Tech. Gurdaspur
48	11060080	Engg. - Mechanical Engg.	Dr. Jatinder Kapoor	Professor	GNDEC, Ludhiana
49	11060084	Engg. - Mechanical Engg.	Dr. Sukhraj Singh	Associate Professor	Lyallpur khalsa College of Engg., Jalandhar
50	11060085	Engg. - Mechanical Engg.	Dr. Nirmal Singh	Associate Professor	Beant College of Engg. & Tech., Gurdaspur
51	11060087	Engg. - Mechanical Engg.	Dr. Brij Bhushan	Associate Professor	Beant College of Engg. & Tech., Gurdaspur
52	11060089	Engg. - Mechanical Engg.	Dr. Sukhminderbir Singh Kalsi	Professor	Amritsar College of Engineering & Technology.
53	11060090	Engg. - Mechanical Engg.	Dr. Jasmaninder Singh Grewal	Associate Professor/HOD	Guru Nanak Dev Engineering College.
54	11090043	Human Value	Dr. Harpreet Singh-1	Professor/Director	ASGI, Khanna
55	11090061	Management-Business	Dr. Shashi Shekhar	Professor	Quest Group of Institute, Mohali
56	11090129	Management-Business	Dr. Aarti Mahendru	Asso. Prof.	CBS, Mohali
57	11090151	Management-Business	Dr. Meenu Jaitly	Director/ Prof.	Doaba Business School, Ghataur, Kharar, Mohali
58	11090161	Management-Business	Dr. Bindiya Kansal	Assistant Professor	GNIMT, Ludhiana

S. No.	Supervisor ID	Discipline	Name	Designation	College / Institution
59	11090174	Management-Business Admn.	Dr. Kavita Aggarwal	Associate Professor	Rayat Bahra Institute of Management, Mohali
60	11090178	Management-Business	Dr. Kulwaranjit Kaur	Assistant Professor	KCL-IMT, Jalandhar
61	11090182	Management-Business	Dr. Vikas Singh	Professor	CEC, Landran, Mohali
62	11090187	Management - Business	Dr. Upinder Kaur	Assistant Professor	GNIMT, Ludhiana
63	11090190	Management-Business	Dr. Parul Khanna	Associate Professor	Rayat Bahra Institute of Management, Hoshiarpur
64	11100042	Pharmaceutical Sciences-	Dr. Mohd. Masih Uzzaman Khan	Associate Professor	Sri Sai College of Pharmacy, Pathankot
65	11100055	Pharmaceutical Sciences-	Dr. Anjoo Kamboj	Professor	CCP, Chandigarh
66	11100073	Pharmaceutical Sciences-	Dr. Nitin Bansal	Professor/HOD	ASBASISMCP, Bela Ropar
67	11100074	Pharmaceutical Sciences-Pharmacy	Dr. Jitender Madan	Professor	CCP, Mohali
68	11100083	Pharmaceutical Sciences-	Dr. Poonam	Assistant Professor	GHG Khalsa College, Ludhiana
69	11100085	Pharmaceutical Sciences-Pharmacy	Dr. Jasjeet Kaur Narang	Associate Professor	Khalsa College of Pharmacy, Amritsar
70	11100087	Pharmaceutical Sciences-	Dr. Rupinder Kaur Sodhi	Associate Professor	Chandigarh College of pharmacy, Landran, Mohali
71	11100098	Pharmaceutical Sciences- Pharmacy	Dr. Vandana Kharb	Associate Professor	Sachdeva College of Pharmacy
72	11110014	Applied Science-Physics	Dr. N.P. Singh	Prof. & Dean	IKGPTU, Kapurthala
73	11110035	Applied Science-Physics	Dr. Munish Aggarwal	Associate Professor	LKCE, Jalandhar
74	11110045	Applied Sci.- Physics	Dr. Arvind Kumar	Associate Professor	BCET, Gurdaspur
75	11110049	Applied Sci.- Physics	Dr. Rakesh Dogra	Professor	BCET, Gurdaspur
76	11110051	Applied Sci.- Physics	Dr. Suyeb Ahmed Khan	Associate Professor	SSIET, Patti
77	11120003	Applied Sci.- Chemistry	Dr. R.P. Singh Grewal	Professor	GNDEC, Ludhiana
78	11120008	Applied Science - Chemistry	Dr. Lakhwinder Singh-1	Associate Professor/HOD	CGC, Landran
79	11120043	Applied Sci.- Chemistry	Dr. Anju Awasthi	Associate Professor	BCET, Gurdaspur
80	11120044	Applied Sci.- Chemistry	Dr. Jyotsna	Associate Professor	RBCENT, Hoshiarpur
81	11130012	Applied Sci.- Mathematics	Dr. D.S. Pathania	Professor	GNDEC Ludhiana
82	11130016	Applied Sci.- Mathematics	Dr. Surjeet Singh Chauhan	Asso. Professor	CGC, Mohali
83	11130036	Applied Sci.- Mathematics	Dr. Joginder Singh-2	Professor	Indo Global College of Engg., Abhipur, Mohali
84	11130044	Applied Science- Mathematics	Dr. Honey Sharma	Associate Professor	Gulzar Institute of Engg. & Tech., Khanna, Ludhiana
85	11140006	Applied Science: Computer	Dr. Jahid Ali	Professor	SSICMT, Badhani
86	11140015	Applied Science: Computer	Dr. C. Rama Krishna	Professor	NITTTR, Chandigarh
87	11150017	Life Sci.- Bio-Technology	Dr. Sukhjeet Kaur	Prof & Head	SUSGI, Tangori, Mohali

List of Department s of IKGPTU main Campus
Civil Engineering
Computer Science & Engineering
Electrical Engineering
Electronics & Communication Engineering
Mechanical Engineering
Food Engineering
Chemical Sciences
Physical Sciences
Mathematical Science
Media & Mass Communication
Management Studies
Architecture
International Resource Centre of Human Values & Professional Ethics

Faculty of IKGPTU Main Campus			
Faculty/ Department	Name	Designation	Contact/Mob No (sms only)
Mathematical & Applied Sciences			
	Professor (Dr.) N.P Singh	Dean, Planning & Development	9478098003
	Professor (Dr.) Anirudh Pratap Singh	Dean, RIC	9478098005
	Dr. Hitesh Sharma	Assistant Professor	9478098060
	Dr. Ashish Arora	Assistant Professor	9478098067
	Dr. Gaurav Bhargava	Assistant Professor	9478098058
	Dr. Chander Prakash	Assistant Professor	9478098059
	Dr. Vandana Naithani	Assistant Professor	9478098084
	Dr. Rajesh Narula	Assistant Professor	9478098073
Engineering & Technology			
	Dr. Buta Singh	Dean, Academics	9501109002
	Dr. Balkar Singh	Associate Professor	9478098009
	Dr. Rajneesh Kant Sachdev	Associate Professor	9478098021
	Dr. Avtar Singh Buttar	Associate Professor	9478098053
	Er. Gagandeep Kaur	Associate Professor	9478098118
	Dr. Shashi Bahl	Assistant Professor	9465884800

	Dr. Shabir Sidhu	Assistant Professor	9478098064
	Dr. Dalveer Kaur	Assistant Professor	9478098066
	Ms. Gazal Sharma	Assistant Professor	9478098063
	Er. Barinderjit Singh	Assistant Professor	9478098069
	Er. Rajdeep Singh	Assistant Professor	9478098065
	Mr. Dinesh Gupta	Assistant Professor	9478098045
Management Studies			
	Dr. Harmeen Soch	Associate Professor	9478098051
	Dr. Kapil Gupta	Assistant Professor	9478098074
	Dr. Pooja Mehta	Assistant Professor	9478098057
	Dr. Mandeep Kaur	Assistant Professor	9478098056
	Dr. Sanjeev Bansal	Assistant Professor	9478098072
	Ms. Supriya Behal	Assistant Professor	9478098055
Media and Mass Communication			
	Dr. Ranbir Singh	Assistant Professor	9478098070
Architecture			
	Dr. Prabhjot Kaur	Professor	9478098050
Centre of Excellence			
	Dr. Jagmeet Bawa	Assistant Professor	9478098071
Resource and Development Centre for Language & Translation studies			
Punjabi	Dr. Sarabjit Singh Mann	Assistant Professor	9478098061
English	Mrs. Priyanka Mahajan	Assistant Professor	9478098068
Sports			
Sports	Dr. Sukhwinder Singh Randhawa	Assistant Director	01822662561

I.K.Gujral Punjab Technical University, Kapurthala

Department of Reserach, Innovation & Consultancy

Discipline's wise list of subjects for Pre-PhD Course work

(As per approved Pre-PhD course work structure from July-Dec 2016-Notification attached)

Sr. No.	Discipline	Structure	Name of Subjects
1	Mechanical Engg.	1st Sub (Compulsory)	Research Methodology (Mech. Engg.)
		2nd Sub (Optd one)	Advanced Heat Transfer
			Non-Conventional Machining
			Advanced Fluid Mechanics and CFD
			Finite Elements Methods
			Composite Materials
			Optimization Techniques
			Computer Aided Design
			Advanced Theory of Vibrations
			Tribology
			Thermo Economics and Power Plants
Advanced Thermodynamics			
2	Pharmacy	1st Sub. (Compulsory)	Research Methodology (PGRM)
		2nd Sub (Optd one)	Pharmaceutics (Option-1)
			Pharmaceutical Chemistry (Option-2)
			Pharmacology (Option-3)
			Pharmacognosy (Option-4)
3	Life Science- Bio-Tech.	1st Sub.(Compulsory)	Research Methodology (PGRM)
		2nd Sub (Optd one)	Biochemical and Separation Technique
			Bioprocess Technology
			Recombinant Biotechnology
			Plant Tissue Culture
4	Mathematics	1st Sub. (Compulsory)	Research Methodology (MPHM-101)
		2nd Sub (Optd one)	Methods in applied Mathematics
			Continuum Mechanics Advance Analysis
			Advanced Analysis (Syllabus not attached)
5	Computer Sci. & Engg./ Computer Application	1st Sub. (Compulsory)	Research Methodology (CSE/MCA)
		2nd Sub (Optd one)	Cloud Computing
			Advanced information Security
			Modelling and Simulation
			Data Warehousing and Data Mining
			Mobile Computing Technologies
			Network Security and Cryptography
			Advanced Software Engineering
			Advanced Computer Architecture
			Advanced Database Systems
			Advanced Data Structure & Algorithms
			Soft Computing
			Advanced Operating Systems
Big Data Analytics			

Discipline's wise list of subjects for Pre-PhD Course work

(As per approved Pre-PhD course work structure from July-Dec 2016-Notification attached)

Sr. No.	Discipline	Structure	Name of Subjects
6	English	1st Sub. (Compulsory)	Research Methodology (English)
		2nd Sub. (Optd One)	Critical Approaches to Literature
7	Human Value	1st Sub. (Compulsory)	Research Methodology (Human Value)
		2nd Sub.	Human Values & Professional Ethics
8	Punjabi	1st Sub.	ਖੋਜ ਵਿਧੀ ਅਧਿਐਨ
		2nd Sub.	ਸਾਹਿਤ ਸਿਧਾਂਤ ਤੇ ਪੰਜਾਬੀ ਸਾਹਿਤ
9	Journalism & Mass Communication	1st Sub. (Compulsory)	Research Methodology (PREPHDJMC-101)
		2nd Sub.	Communication Theories (PREPHDJMC-102)
10	Civil Engg.	1st Sub.	Research Methodology (Civil Engg.)
		2nd Sub (Optd one)	Transportation and Highway Technology
			Advanced Foundation Design and Construction
			Environment Engineering and Management
			Pavement Design, Construction and Maintenance
			Bridge Engineering
			Advanced Construction Technology
			Advanced Structural Engineering
			Hydraulics Engineering
			Geotechnical Engineering
11	Electronics & Communication Engg.	1st Sub. (Compulsory)	Research Methodology (ECE)
		2nd Sub (Optd one)	Advanced wireless Communication
			Advanced Communication Systems
			Advanced Digital Signal processing
			Real time concepts for Embedded systems
			Radiating Systems
			Microwave and Millimeter wave circuits
			RF & Microwave System Design
			Image and Video Processing
			MOS Circuit Design
			Low Power VLSI Circuits
			Advanced Data Communication
			Coding Theory and Techniques
Optical Communication Technology			
Optical Networks			
12	Chemistry	1st Sub. (Compulsory)	Research Methodology (Chemistry)
		2nd Sub. (Optd One)	Advanced Organic Chemistry
			Medicinal Chemistry
	Laboratory Practices		
13	Electrical Engg.	1st Sub. (Compulsory)	Research Methodology (EE)
		2nd Sub. (Optd One)	Power System Engineering
			Power Electronics
			Electrical Drives Engineering
			Energy Management Engineering
	Microelectronics and Control Systems		

Discipline's wise list of subjects for Pre-PhD Course work

(As per approved Pre-PhD course work structure from July-Dec 2016-Notification attached)

Sr. No.	Discipline	Structure	Name of Subjects
			Advanced Relaying and Protection
			Digital System Design
			Modelling and Analysis of Dynamic Systems
			Bio Medical Signal Processing
			Sensors and Applications
			Scientific and Analytical Instrumentation
			Renewal Energy Resources
14	Management-Business Admn.	1st Sub. (Compulsory)	Research Methodology (Mgt.)
		2nd Sub. (Optd One)	Accounting & Finance
			Marketing Mangement
			Human Resource Management
15	Physics	1st Sub. (Compulsory)	Research Methodology (PHS900)
		2nd Sub. (Optd One)	Theoretical methods in Physics (PHS901)
			Techniques in Experimental Physics (PHS902)
			Advanced Condensed Matter Physics (PHS903)
			Computational Physics (PHS904)
			Nano Materials (PHS905)
16	All Branches	3rd subject Interdisciplinary (Optd One)	Production Engineering
			Advanced Mechanics of Solids
			Mechatronics
			Product Design and Development
			Material Handling Equipment Design
			Signal Processing
			Communication Systems
			VLSI Design and Embedded Systems
			Linear Algebra
			Internetworking
			MEMS
			Network Security and Cryptography
			Adhoc Wireless and Sensor Networks
			Neural Networks and Fuzzy Logic
			Mathematical Foundations of Computer Networks
			Sensors for Ranging and Imaging
			Town and Country Planning
Advanced Geoinformatics			
Computer Aided Design Methods			
Civil Engineering applications of Remote sensing and GIS			
Computer Application (PREPHDJMC-104)			
			ਤੁਲਨਾਤਮਕ ਸਾਹਿਤ ਤੇ ਅਨੁਵਾਦ ਵਿਗਿਆਨ

Discipline's wise list of subjects for Pre-PhD Course work

(As per approved Pre-PhD course work structure from July-Dec 2016-Notification attached)

Sr. No.	Discipline	Structure	Name of Subjects
			Communication Studies
			Advanced Heat Transfer
			Non-Conventional Machining
			Advanced Fluid Mechanics and CFD
			Finite Elements Methods
			Composite Materials
			Optimization Techniques
			Computer Aided Design
			Advanced Theory of Vibrations
			Tribology
			Thermo Economics and Power Plants
			Advanced Thermodynamics
			Pharmaceutics (Option-1)
			Pharmaceutical Chemistry (Option-2)
			Pharmacology (Option-3)
			Pharmacognosy (Option-4)
			subjects not mentioned
			Biochemical and Separation Technique
			Bioprocess Technology
			Recombinant Biotechnology
			Plant Tissue Culture
			Research Methodology (MPHM-101)
			Methods in applied Mathematics
			Continuum Mechanics Advance Analysis
			Advanced Analysis (Syllabus not attached)
			Cloud Computing
			Advanced information Security
			Modelling and Simulation
			Data Warehousing and Data Mining
			Mobile Computing Technologies
			Network Security and Cryptography
			Advanced Software Engineering
			Advanced Computer Architecture
			Advanced Database Systems
			Advanced Data Structure & Algorithms
			Soft Computing
			Advanced Operating Systems

Discipline's wise list of subjects for Pre-PhD Course work

(As per approved Pre-PhD course work structure from July-Dec 2016-Notification attached)

Sr. No.	Discipline	Structure	Name of Subjects
			Big Data Analytics
			Critical Approaches to Literature
			Human Values & Professional Ethics
			Relevant Theories and Holistic Perspective
			ਬੇਜ਼ ਵਿਧੀ ਅਧਿਐਨ
			ਸਾਹਿਤ ਸਿਧਾਂਤ ਤੇ ਪੰਜਾਬੀ ਸਾਹਿਤ
			Research Methodology (PREPHDJMC-101)
			Communication Theories (PREPHDJMC-102)
			Transportation and Highway Technology
			Advanced Foundation Design and Construction
			Environment Engineering and Management
			Pavement Design, Construction and Maintenance
			Bridge Engineering
			Advanced Construction Technology
			Advanced Structural Engineering
			Hydraulics Engineering
			Geotechnical Engineering
			Advanced wireless Communication
			Advanced Communication Systems
			Advanced Digital Signal processing
			Real time concepts for Embedded systems
			Radiating Systems
			Microwave and Millimeter wave circuits
			RF & Microwave System Design
			Image and Video Processing
			MOS Circuit Design
			Low Power VLSI Circuits
			Advanced Data Communication
			Coding Theory and Techniques
			Optical Communication Technology
			Optical Networks
			Advanced Organic Chemistry
			Medicinal Chemistry
			Laboratory Practices
			Power System Engineering
			Power Electronics
			Electrical Drives Engineering
			Energy Management Engineering
			Microelectronics and Control Systems
			Advanced Relaying and Protection
			Digital System Design
			Modelling and Analysis of Dynamic Systems

Discipline's wise list of subjects for Pre-PhD Course work

(As per approved Pre-PhD course work structure from July-Dec 2016-Notification attached)

Sr. No.	Discipline	Structure	Name of Subjects
			Bio Medical Signal Processing
			Sensors and Applications
			Scientific and Analytical Instrumentation
			Renewal Energy Resources
			Research Methodology
			Accounting & Finance
			Marketing Mangement
			Human Resource Management
			Research Methodology (PHS900)
			Theoretical methods in Physics (PHS901)
			Techniques in Experimental Physics (PHS902)
			Advanced Condensed Matter Physics (PHS903)
			Computational Physics (PHS904)
			Nano Materials (PHS905)
			Relevant Theories and Holistic Perspective