

Summary of DRC Recommendations

The summary of recommendations for all HBTU students admitted for Ph. D. Program in the Session 2017-18 who appeared before DRC of their Department held on 13.01.2018 is as following.

S. N.	Deptt	Student	Supervisor (s)	Title of Synopsis	DRC recommendations & Suggestions	
					Course Work	Synopsis
1.	CE	Mr. Prithvi Pati	Dr. Sunil Kumar	Concrete using Agro-waste for sustainable built Environment	Three courses RM, CT&PCD and RS are ok and course no. 3 is to be based on structural fire engineering or pavement design which may be adopted from NPTEL	1. Field chosen for study is accepted 2. Topic will be finalized in future DRC
2.	CE	Mr. Sushil Kr. Singh Gaur	Dr. Sunil Kumar	Performance of stone, dust and recycled demolished concrete/Masonry aggregates on durability and fire resistance of concrete	Three courses RM, CT&PCD and RS are ok and course no. 3 is to be based on structural fire engineering or pavement design which may be adopted from NPTEL	1. Field chosen for study is accepted 2. Topic will be finalized in future DRC
3.	CSE	Mr. Anurag Tewari	Prof. B. K. Tripathi	Deep learning with high dimensional Neural Networks and applications	RM, M/c Learning (from NPTEL), Introduction to Soft Computing (from NPTEL), Data Mining (from NPTEL)	Topic can be more specific in the next DRC
4.	CSE	Mr. Harendra Singh	Dr. Narendra Kohli	Modified K-means clustering Algorithm for medical image analysis	RM, M/c Learning (from NPTEL), Introduction to Soft Computing (from NPTEL), Numerical Techniques	Topic: Tumor detection in MRI images
5.	CSE	Ms. Sunita Yadav	Dr. Anita Yadav	Muti-objective routing protocols with optimization for improving lifetime, coverage, reliability and security in Wireless Sensor Networks	RM, M/c Learning (from NPTEL), Introduction to Soft Computing (from NPTEL), Wireless Adhoc and Sensor Network (from NPTEL)	Topic can be more specific in the next DRC
6.	EE	Mr. Vinay Kumar	Dr. Sanjiv Kumar	Multi-level inverter fed induction Motor derived for Sugar Industry	RM, Industrial Drives and Automation, Intelligent Techniques and Applications, Advanced Microprocessors and Microcontrollers	The student is advised to do the detailed literature review in the area of Multi-level inverters
7.	ET	Mr. Ajeet Kr. Srivastava	Dr. Krishna Raj	Design and implementation of Canonic signed digit based computationally efficient reconfigurable cascaded integrator-Comb (CIC) decimation filter	RM, PSQM, DC and ADSP	Broad area recommended

8.	ET	Ms. Rashmi Pandey	Dr. A. K. Shankhwar	Synthesis of Micro-strip Patch Antenna Array (9×9) under 2.45 GHz and 5.8 GHz ISM bands for RF energy Harvesting	RM, Wireless Communication, Satellite Communication and Mobile Communication, NPTEL course on Microwave and Antennas may be referred	Broad area recommended
9.	ET	Ms. Vidhi Gupta	Prof. Rachna Asthana	Efficient p-cycle protection in Elastic Optical Networks	RM, Discrete Mathematics, Optical Communication and Mobile Communication	Broad area recommended
10.	ME	Mr. Arpit Srivastava	Dr. S.K.S. Yadav	Experimental analysis and multi objective optimization of Milling Electrochemical Spark Machining	RM, Rapid Prototyping and Tooling, Advanced Machine Design, Advanced Machining Process	Supervisor approved, Topic approved
11.	ME	Mr. Krishna Mani Mishra	Dr. Onkar Singh	Thermodynamic and Environmental study of Tri-generation systems using different energy sources	RM, CAD of Mechanical Systems, Optimization for Engineering Design, CAD of thermal systems	Supervisor approved, Topic approved
12.	CH	Mr. Jitendra Nath Srivastava	Dr. S. K. Gupta	Modification of Polycarbonates to improve low temperature toughness	RM, Water pollution Monitoring and control, Instrumental Methods of analysis, Analytical Methods in Bio-processing	1. Broad area approved 2. Suggested modifications like Kinetics, optimization and portion related to Chemical engineering should be incorporated in next DRC
13.	CH	Ms. Neeta Singh	1. Dr. S.K. Gupta 2. Dr. P.K.S. Yadav	Development, Characterization and performance evaluation of Polymeric Surfactant for enhanced oil recovery	RM, Water pollution Monitoring and control, Instrumental Methods of analysis, Novel Surfactants: Production and Industrial applications	1. Broad area approved 2. Revised synopsis with details of polymeric surfactant should be submitted along with methodology and work plan be specific 3. The study of parameters should be well defined and precise
14.	BE	Ms. Abhimati Shukla	Dr. Lalit Kumar Singh	Studies on Treatment of Waste water and recovery of Valuable metals	RM, Design of wastewater treatment, Bioprocess plant design, bio-entrepreneurship and regulatory issues	1. Broad area approved 2. A modified synopsis based on waste water treatment should be submitted in next DRC
15.	BE	Ms. Zainab Mahmood	Dr. Lalit Kumar Singh	Studies on production of Micro-bialy induced building materials	RM, Design of wastewater treatment, Bioprocess plant design, bio-entrepreneurship and regulatory issues	1. The modified synopsis may be submitted in next DRC 2. The role of organism must be well defined
16.	FT	Ms. Arunima Singh	Dr. Vivek Kumar	Effect of various processing conditions on quality of Pumpkin seed oil	RM, Nutraceutical and functional foods, Novel	1. Broad area approved 2. The modified topic may be

					techniques in food processing and preservation, Interfacial science and engineering	submitted in next DRC 3. Proposed Topic "Role of processing and extraction condition on improvement of availability of pumpkin seed oil"
17.	OT	Mr. S.C. Mishra	Prof. R.K. Trivedi	Studies on coconut based low temperature liquid hair oil formulations	RM, Modern processing technology of oil bearing materials, Modern processing technology of oils, Environmental biotechnology	1. Topic and broad area approved 2. Synopsis needs to be re-written, research methodology literature survey etc. need to be elaborate 3. The modified synopsis has to be submitted before next DRC along with list of revisions made
18.	CY	Mr. Shiv Govind Prasad	Dr. C.L. Gehlot	Radiation effect studies on some novel polymeric materials using Spectroscopic Techniques	RM, Probability and Statistics for engineers, Instrumental methods of analysis, Basic concept of analytical chemistry	1. Final topic will be presented in later DRC 2. Co-supervisor from polymeric area can be incorporated
19.	HU	Mr. Anchit Agarwal	1. Dr. V.K. Yadav 2. Prof. K.M. Mohapatra	E-Retailing and its impact on Indian economy: A case study of Kanpur city	RM, Probability and Statistics for engineers, Contemporary issues in management, e-Marketing and consumer behavior	1. To carry out Literature review on e-Retailing and explores studies related to supply chain management/ consumer relationship management/ order delivery/ customer satisfaction and other issues 2. To resubmit revised synopsis in next DRC 3. Recommended coursework in consumer behavior and e business
20.	HU	Ms. Harshmit Kaur Saluja	1. Dr. V.K. Yadav 2. Prof. K.M. Mohapatra	Impact and assessment of interactive advertising on consumers in India	RM, Probability and Statistics for engineers, Contemporary issues in management, e-Marketing and consumer behavior	1. To carry out Literature of assessment of effectiveness of advertising or interactive advertising. 2. Revise objectives in achievable terms 3. Resubmit synopsis 4. Recommended coursework in consumer behavior and e-marketing

Handwritten signature and date:
Mr. 1.1.8