

**INDIAN INSTITUTE OF TECHNOLOGY MANDI**  
**KAMAND, DISTT. MANDI – 175005 (HIMACHAL PRADESH)**



**MINUTES OF 26<sup>TH</sup> BOARD OF ACADEMICS MEETING**

VENUE : A-4 CONFERENCE ROOM, KAMAND)  
DATE : 16<sup>TH</sup> OCTOBER, 2018 (TUESDAY)  
TIME : 04:00 P.M.

**Following members attended the meeting**

Sl.No	Responsibilities	Name
1	Dean Academics	Dr. Pradeep Parameswaran
2	Associate Dean (Research)	Dr. Rahul Vaish
3	Associate Dean (Courses)	Dr. Anil K Sao
4	Chairman Library Advisory Committee	Dr. Astrid Kiehn
5	Chairman Course Proposal Committee + Course Coordinator M.Sc. (Chemistry)	Dr. Kunal Ghosh
6	Course Coordinator (IC Courses)	Dr. Aniruddha Chakraborty
7	Course Coordinator (MA Dev.Studies) + Nominee (SHSS)	Dr. Shyamasree Dasgupta
8	Course Coordinator (B.Tech.-CSE)	Dr. Dileep A D
9	Course Coordinator (B.Tech.-CE)	Dr. Deepak Swami
10	Course Coordinator (M.Tech.- (Energy Engg. (Materials)))	Dr. Atul Dhar
11	Course Coordinator (M.Tech.-(Mechanical Engg. (Energy Systems)))	
12	Course Coordinator (M.Tech.-(Communication and Signal Processing))	Dr. Renu M Rameshan
13	Course Coordinator (M.Tech.-Biotechnology)	Dr. Shyam K Masakapalli
14	Course Coordinator (M.Sc.-Applied Maths)	Dr. Nitu Kumari
15	Course Coordinator (M.Sc.-Physics)	Dr. Ajay Soni on behalf of Dr. C. S. Yadav
16	Course Coordinator (I-Ph.D.(Physics))	Dr. Ajay Soni on behalf of Dr. Hari Varma
17	Nominee-1: School of Engineering	Dr. Rajesh Ghosh
18	Nominee-2: School of Engineering	Dr. Venkata Uday Kala
19	Nominee-1: School of Computing & Electrical Engineering	Dr. Kunal Ghosh
20	Nominee-2: School of Computing & Electrical Engineering	Dr. Aditya Nigam
21	Nominee-1: School of Basic Sciences	Dr. Syed Abbas
22	Nominee-2: School of Basic Sciences	Dr. Prosenjit Mondal
23	Research Affairs Secretary	Mr. Ashish Tiwari
24	Assistant Registrar (Academics): Secretary	Mr. Suresh Rohilla

**Following members could not attend the meeting**

Sl. No.	Responsibilities	Name
1	Course Coordinator (B.Tech.-EE)	Dr. Shubhajit Roy Chowdhury
2	Course Coordinator (B.Tech.-ME)	Dr. Arpan Gupta
3	Course Coordinator (M.Tech.-(VLSI))	Dr. Satinder Sharma
4	Course Coordinator (M.Tech.-(Power Electronics and Drives))	Dr. Narsa Reddy Tummuru
5	Nominee-1: School of Humanities & Social Sciences	Dr. Suman Sigroha
6	Academic Affairs Secretary	Mr. Abhishek
7	Industry Member – 1	Dr. Nadeem Akhtar
8	Course Coordinator (M.Sc.-Physics)	Dr. Chander Shekhar Yadav
9	Course Coordinator (I-Ph.D.(Physics))	Dr. Hari Varma

### Special Invitee

Sl.No.	Name	Designation
1.	Dr. Devika Sethi	Asst. Prof., SHSS
2.	Dr. Rajneesh Sharma	Asst. Prof., SE
3.	Dr. Kaustav Sarkar	Asst. Prof., SE
4.	Dr. Subhamoy Sen	Asst. Prof., SE
5.	Dr. Varun Dutt	Asst. Prof., SCEE

### PART-A

#### (Issues discussed by the Board of Academics when the Student Members were present)

#### **26.1 Confirmation of the minutes of 25<sup>th</sup> meeting of Board of Academics:**

The Part-A minutes of the 25<sup>th</sup> Board of Academics meeting held on 31<sup>st</sup> July, 2018 were confirmed.

#### **26.2 To consider award of Ph.D., M.S. (by Research), M.Tech., M.Sc., and B.Tech degree on the registered students who have completed all the requirements of the degree:**

The Board recommended the students (26 Ph.D., 08 M.S. (by Research), 19 M.Tech., 28 M.Sc. (Chemistry), 11 M.Sc. (Maths) and 107 B.Tech ), who have completed all the requirements for the above degrees to the Senate for award of the degrees during 6<sup>th</sup> Convocation scheduled to be held on 29<sup>th</sup> October, 2018 (Monday) at Kamand Campus. Placed at **Annexure – A**.

Further the Board discussed and recommended that the final number may have some more additions as students completing academic requirements before forthcoming meeting of 18<sup>th</sup> Senate should also be included after approval of Chairman Senate received before convocation.

#### **26.3 One Time Approval (OTA) of the courses as per Senate approved nomenclature for the courses already taken up by the graduating students:**

A list of courses taken by students graduating in 6<sup>th</sup> Convocation for one time approval by the Senate. The BoA recommended it to the Senate for approval. The list is placed as **Annexure-B**.

#### **26.4 Nomenclature and allotment of course codes for Practicum and Practical type courses**

In the meeting of 25<sup>th</sup> BoA, a Sub-committee was constituted under the Chairmanship of Dr. Anil K Sao along with Dr. Narsa Reddy Tummuru and Dr. Dileep AD as members to consider the subject matter and make appropriate recommendations. Dr. Dileep AD submitted the recommendations of the committee to the BoA. After deliberations, The Board recommended following proposal for Senate consideration and approval:

### 1. Practicum and Practical (laboratory) courses:

- 1.1 Add P to all the practicum and practical course codes.
- 1.2. Course coordinators should re-look into the practicum courses offered in their respective discipline to check whether they are offered/designed in the true spirit of practicum courses and assign/change the course codes and course titles accordingly.

### 2. B Tech final year project:

- 2.1. Continue to call it as "Major Technical project (MTP)"
- 2.2. Course code should be specific to discipline i.e. CS4xxP, EE4xxP, ME4xxP, CE4xxP.
- 2.3. Two course numbers as it spans 2 semester. Suggestion: Example - CS498P - Major Technical Project -1 and CS499P - Major Technical Project - 2.
- 2.4. If some ME or EE student does CS project, that should not count as ME project. It is considered as free elective.
- 2.5. Faculty Advisors (FAs) of respective discipline should take care that the MTP of each student is in respective discipline.
- 2.6. For honors, this MTP should be in his/her discipline.

### 3. MSc/MTech final year project:

- 3.1. Call it uniformly as "Post Graduate Project (PGP)"
- 3.2 Course code should be specific to each program.
- 3.3. Two course numbers as it spans 2 semester. There will be evaluations and gradings in both the semester.
- 3.4. Course code for PGP in MSc program should be at 5 level. For Example: PH5xxP
- 3.5. Course code for PGP in MTech program should be at 6 level. For Example: EE6xxP, ME6xxP.

### 26.5 To consider approval of courses presented by the Course Proposal Committee (CPC):

The Chairperson, CPC presented the following thirteen new courses for consideration and approval of BoA.

Sl. No.	Course No.	Course Name	Credits
1	CE610	Analysis and Design for Earthquake Resistant Structures	3-0-0-3
2	CE607	Finite Element Analysis in Structural Engineering	3-0-0-3

3	CE587	Industrial/Research Internship	1-0-0-1
4	CE611	Structural Health Monitoring	3-0-0-3
5	CE586	Mini Project (Continued from Winter Term -1)	3-0-0-3
6	HS524	India in the 1950s: Biography of a Foundational Decade	3-0-0-3
7	HS531	Gender and Development	3-0-0-3
8	HS553P	Field Study	4-0-0-4
9	HS551P	Development Studies Practicum	4-0-0-4
10	HS523	Decision Making for Social Change	3-0-0-3
11	HS650	Statistical Methods	3-0-0-3
12	PH 617P	Research Practicum	3
13	PH 627P	Major Research Project	8

After due deliberations the BoA recommended following two courses for approval by the Senate with modification in them and eleven courses were deferred by the BoA due to time constraint. The final course descriptions after incorporating the suggested changes are placed at **Annexure – C**.

Sl. No.	Course No.	Course Name	Credits
1	CE587	Industrial/Research Internship	1-0-0-1
2	HS524	India in the 1950s: Biography of a Foundational Decade	3-0-0-3

**26.6 Any other item with the permission of the Chair.**

-NIL-

  
Secretary, Board of Academics

  
Chairman, Board of Academics



## ANNEXURE-A

26 Ph.D., 08 M.S. (by Research), 19 M.Tech., 28 M.Sc. (Chemistry), 11 M.Sc. (Applied Mathematics) and 107 B.Tech. Students fulfill all the academic requirements for the award of the degree. The summary information with regard to the various degrees is as under:

### a) Doctor of Philosophy (Ph.D.)

The following twenty six Ph.D. scholars have completed all the requirements for the award of the degree of "Doctor of Philosophy" including submission of the final approved thesis.

Sl. No	Name & Roll No.	Date of Joining/ Date of Completion	Guide	Thesis Title	Viva- Voce Board	Thesis Examiners
1	Rajiv Kumar Maurya (D11030)	DoJ: 05-08-2011 DoC: 09-05-2018 (6 Years, 9 months)	Dr. BinduRadhamany	Investigation of the Structural Connectivity with the Physical Properties of Ilmenite and Pyroxene Based Oxides	Dr. Syed Abbas(Chairman) Prof. A. Thamizhavel (Thesis Examiner) Prof. Pankaj R. Sagdeo (Subject Expert) Dr. BinduRadhamany (Guide) Dr. Arti Kashyap Dr. Viswanath Balakrishnan Dr. Suman K Pal	Prof. A. Thamizhavel (TIFR, Mumbari)  Prof. C. Laubschat (TUD, Germany)
2	Jalim Singh (D11036)	DoJ: 08-08-2011 DoC: 19-03-2018 (6 Years, 7 months)	Dr. Prasanth P Jose	Microscopic Structure and Dynamics of Glass Transition Under Phase Separation in a Model Linear Polymer Melt	Dr. Hari Varma (Nominee) Prof. Abhik Basu (Thesis Examiner) Dr. Ujjal Kam Gautam (Subject Expert) Dr. Prasanth P Jose (Guide) Dr. Pradyumna Pathak Dr. C.S.Yadav Dr. Rik Rani Koner	Prof. Abhik Basu (Saha Institute of Nuclear Physics, Kolkata)  Prof. Shuyu Sun, (King Abdullah University, Saudi Arabia)
3	Abhishek Kumar Gupta (D11038)	DoJ: 31-01-2012 DoC: 29-11-2017 (5 Years, 10 months)	Dr. Pradeep C Parameswaran	Development of New Schiff Base Derivatives as Fluorescent Chemosensors, NIR Emitters and Catalysts	Dr. Prasanth Jose (Nominee) Prof. Ch. Subrahmanyam (Thesis Examiner) Dr. Kailasam Kamalakannan (Subject Expert) Dr. Pradeep P Parameswaran (Guide) Dr. Subrata Ghosh Dr. Prem Felix Siril	Prof. Ch. Subrahmanyam (IIT Hyderabad)  Dr. C. Moiras (University of Glasgow)
4	Deepak Kumar (D11041)	DoJ: 31-01-2012 DoC: 17-04-2018 (6 Years, 3 months)	Dr. Manoj Thakur	Multi-Category Nonparallel Support Vector Machine and Application to Financial Market Prediction	Dr. Muslim Malik (Nominee) Prof. S.C.Sharma (Thesis Examiner) Dr. Arun Kumar (Subject Expert) Dr. Manoj Thakur (Guide) Dr. P Anil Kishan	Prof. S.C.Sharma (IIT Roorkee)  Prof. Atulya Nagar (Liverpool Hope University, UK)
5	Gourab Dey (D12049)	DoJ: 13-06-2012 DoC: 01-03-2018 (5 Years, 9 months)	Dr. Subrata Ghosh	Albumin Specific Molecular Lumino-Materials: From Quantification to Bioimaging	Dr. Prem F Siril (Nominee) Prof. Arindam Banerjee (Thesis Examiner) Dr. Debabrata Patra (Subject Expert) Dr. Subrata Ghosh (Guide) Dr. Suman K Pal Dr. Chayan K Nandi Dr. Tulika P Srivastava	Prof. Arindam Banerjee (IACS, Kolkata)  Prof. Cheal Kim (Seoul National University, South Korea)
6	Tripti Vats	DoJ: 13-06-2012	Dr. Prem	Unraveling the	Dr. Chayan K Nandi	Prof. A.K. Mishra

	(D12052)	DoC: 28-03-2018 (5 Years, 9 months)	Felix Siril	Potential of Pristine Graphene as a Valuable Catalyst Support Material for Nanoparticles	(Nominee) Prof. A.K. Mishra (Thesis Examiner) Dr. Narinder Singh (Subject Expert) Dr. Prem Felix (Guide) Dr. Suman K Pal Dr. Subrata Ghosh Dr. Aditi Halder Dr. P Anil Kishan	(IIT Madras)  Prof. Jernej Iskra (Jozef Stefan, Institute Jamova, Slovenia)
7	Mohit Chawla (D12053)	DoJ: 13-06-2012 DoC: 01-05-2018 (5 Years, 11 months)	Dr. Prem Felix Siril	Tuning the Morphology and Composition of Metal Based Nanostructures for Enhancing the Catalytic and Sensing Performance	Dr. Pradeep P (Nominee) Prof. Arun Chattopadyyay (Thesis Examiner) Dr. Rajendra Srivastava (Subject Expert) Dr. Prem Felix (Guide)	Prof. Arun Chattopadyyay (IIT Guwahati)  Prof. Adam Lee (EBRI, UK)
8	Mangili Venkateswarulu (D12054)	DoJ: 13-06-2012 DoC: 03-10-2018 (6 Years, 4 months)	Dr. Subrata Ghosh	Mechanistic Insights Into Inter-/Intra-Molecular Thiolytic of Sulfonate Esters: Reaction Dynamics, Orbital Overlap vs Molecular Reactivity, Induced Proximity Effect and Directed Transannular Interaction	Dr. Syed Abbas (Chairman) Dr. Akkattu T. Biju (Thesis Examiner) Dr. R. Vijaya Anand (Subject Expert) Dr. Subrata Ghosh (Guide) Dr. Pradeep P Dr. Anil Kishan Dr. Aniruddha Chakraborty	Dr. Akkattu T. Biju (IISc Bangalore)  Dr. Mike Pluth (University of Oregon)
9	K. Lingeshwar Reddy (D12056)	DoJ: 13-06-2012 DoC: 29-06-2018 (6 Years)	Dr. Venkata Krishnan	Near Infrared Active Upconversion Nanophosphors for Theranostics, Sensing and Photocatalysis	Dr. Prem Felix (Nominee) Dr. Venkataramanan Mahalingam (Thesis Examiner) Dr. Samir Chikkali (Subject Expert) Dr. Venkata Krishnan (Guide) Dr. Pradeep Parameswaran	Dr. Venkataramanan Mahalingam (IISER Kolkata)  Prof. Fiorenzo Vetrone (Institute National De La Recherche, Canada)
10	Sohan Lal (D12064)	DoJ: 25-06-2012 DoC: 08-12-2017 (5 Years, 5 months)	Dr. Sudhir K Pandey	Investigation of Structural, Electronic and Magnetic Properties of Spinel by Using Density Functional Theory	Dr. Rajeev Kumar (Chairman) Prof. Arghya Taraphder (Thesis Examiner) Prof. Brijesh Kumar (Subject Expert) Dr. Sudhir K Pandey (Guide) Dr. Atul Dhar Dr. C. S. Yadav Dr. Prasanth P Jose	Prof. Arghya Taraphder (IIT Kharagpur)  Prof. Arun Bansil (Northeastern University Boston, USA)
11	Abdus Salam Sarkar (D12065)	DoJ: 25-06-2012 DoC: 08-03-2018 (5 Years, 9 months)	Dr. Suman Kalyan Pal	Emerging Two-Dimensional Materials and Their van der Waals Heterostructures: Chemical Exfoliation to Device Applications	Dr. Kaustav Mukherjee (Nominee) Prof. Satishchandra Ogale (Thesis Examiner) Dr. Mahesh Kumar (Subject Expert) Dr. Suman K Pal (Guide) Dr. Pradyumna Pathak Dr. Subrata Ghosh	Prof. Satishchandra Ogale (IISER, Pune)  Prof. Gwan-Hyoung Lee (Yonsei University, South Korea)
12	Sandeep Sharma (D12068)	DoJ: 05-07-2012 DoC: 18-07-2017 (5 Years)	Dr. Nitu Kumari	Modeling the Dynamics of Waterborne Diseases Under the	Dr. Prasanth Jose (Chairman) Prof. A.K. Misra (Thesis Examiner) Dr. Mani Mehra (Subject	Prof. A. K. Misra (BHU)

				Influence of Environmental Pollution	Expert) Dr. Nitu Kumari (Guide) Dr. Syed Abbas	Dr. Carlo Cafaro (State University of New York, USA)
13	Pankaj Narula (D12069)	DoJ: 05-07-2012 DoC: 19-02-2018 (5 Years, 7 months)	Dr. Sarita Azad	Functional Data Analysis of Temperature and Rainfall Observations for the Regional Indexing of Climate Change Severity in India	Dr. Syed Abbas (Chairman) Prof. Govindan Rangarajan (Thesis Examiner) Dr. Sagar Rohidas Chavan (Subject Expert) Dr. Sarita Azad (Guide) Dr. Manoj Thakur Dr. Rajendra K Ray	Prof. Govindan Rangarajan (IISC Bangalore)  Prof. Mrinal Biswas (NCAR, USA)
14	Subit Kumar Jain (D12070)	DoJ: 05-07-2012 DoC: 25-06-2018 (5 Years, 11 months)	Dr. Rajendra K Ray	A Class of Non-Linear Coupled Partial Differential Equation Based Models for Image Restoration with its Numerical Realization	Dr. Syed Abbas (Chairman) Prof. Arindama Singh (Thesis Examiner) Dr. Arvind Kumar Gupta (Subject Expert) Dr. Rajendra Ray (Guide) Dr. Sarita Azad Dr. Manoj Thakur	Prof. Arindama Singh (IIT Madras)  Prof. J.S.B.Gajjar (University of Manchester, UK)
15	Pulkit Sharma (D12075)	DoJ: 05-07-2012 DoC: 20-03-2018 (5 Years, 8 months)	Dr. Anil K Sao	Significance of Sparse Representation for Speech Recognition and Speech Synthesis	Dr. Bharat Singh Rajpurohit (Chairman) Prof. Rajesh Hegde (Thesis Examiner) Prof. Ravindra Nath (Subject Expert) Dr. Anil K Sao (Guide)	Prof. Rajesh Hegde (IIT Kanpur)  Prof. Mads Graesboll Christensen (Aalborg University, Denmark)
16	Saurabh Singh (D12082)	DoJ: 20-02-2013 DoC: 25-03-2018 (5 Years, 1 month)	Dr. Sudhir K Pandey	Study of Thermoelectric Properties of Oxide Materials in High-Temperature Region	Dr. Rajeev Kumar (Chairman) Dr. Anjan Kumar Gupta (Thesis Examiner) Dr. Rajeev Rawat (Subject Expert) Dr. Sudhir K Pandey (Guide) Dr. Jaspreet Kaur Dr. Viswanath Balakrishnan Dr. C. S. Yadav	Dr. Anjan Kumar Gupta (IIT Kanpur)  Prof. Tsunehiro Takeuchi (Toyota Technological Institute, Japan)
17	Neha Sharma (D12087)	DoJ: 25-02-2013 DoC: 05-10-2018 (5 Years, 8 months)	Dr. Varun Dutt	Decisions from Experience: Investigating Individual-Level Decisions in Bandit Problems via Experimentation and Computational Cognitive Modelling	Dr. Anil K Sao (Chairman) Prof. Harish Karnick (Thesis Examiner) Prof. Deepak Garg (Subject Expert) Prof. Joachim Meyer (Invited Specialist) Dr. Varun Dutt (Guide) Dr. Dileep A D Dr. Padmanabhan Rajan	Prof. Harish Karnick (IIT Kanpur)  Prof. Joachim Meyer (Tel-Aviv University, Israel)
18	Vipul Sharma (D12088)	DoJ: 08-03-2013 DoC: 07-06-2018 (5 Years, 3 months)	Dr. Venkata Krishnan	Design and Fabrication of Plant Leaf-Inspired Biomimetic Patterned Surfaces for Fog Harvesting, Sensing and Catalysis Applications	Dr. Subrata Ghosh (Nominee) Dr. Navin Kumar (Thesis Examiner) Dr. C.M. Nagaraja (Subject Expert) Dr. Venkata Krishnan (Guide) Dr. Prem Felix Siril Dr. Vishwanath Balakrishnan	Dr. Navin Kumar (IIT Ropar)  Prof. Hendrik Holscher (Karlsruhe Institute of Technology, Germany)
19	Neeraj Sankhyan (D13003)	DoJ: 29-07-2013 DoC: 15-03-2018 (4 Years, 8 months)	Dr. Suman Sigroha	A Thematic Study of English Poetry From the Conflict-Affected States of the Indian Himalayas	Dr. Rajeshwari Dutt (Chairman) Prof. Rukmini Bhaya Nair (Thesis Examiner) Dr. Ashok Kumar Mocherla (Subject Expert) Dr. Suman Sigroha (Guide) Dr. Manu V Devadevan	Prof. R. B. Nair (IIT Delhi)  Prof. Anindita Dasgupta (Taylor's University, Malaysia)

					Dr. P Anil Kishan	
20	Vinayak Abrol (D13008)	DoJ: 29-07-2013 DoC: 23-01-2018 (4 Years, 6 months)	Dr. Anil K Sao	Greedy Dictionary Learning Methods for Sparse Representation of Signals	Dr. Bharat Singh Rajpurohit (Chairman) Prof. Surendra Prasad (Thesis Examiner) Prof. Ravibabu Mulaveesala (Invited Specialist) Dr. Anil K Sao (Guide)	Prof. Surendra Prasad (IIT Delhi)  Prof. Karl Skretting (University of Stavanger, Norway)
21	Sanjay Rathee (D13016)	DoJ: 23-01-2014 DoC: 09-10-2018 (4 Years, 9 months)	Dr. Arti Kashyap	Distributed Algorithms on Big Data Frameworks for Alignment and Analysis of Big Data Generated by Next-Generation Sequencing	Prof. B. D. Chaudhary (Nominee) Dr. R. Balasubramanian (Thesis Examiner) Dr. Vikram Goyal (Subject Expert) Dr. Arti Kashyap (Guide) Dr. Tulika Srivastava Dr. Arnav Bhavsar	Dr. R. Balasubramanian (IIT Roorkee)  Prof. Hemant Purohit (George Mason University, USA)
22	P Guru Prasad Reddy (D14010)	DoJ: 01-08-2014 DoC: 25-07-2018 (3 Years, 11 months)	Dr. Pradeep C Parameswaran	Development of New Non-Chemically Amplified Resists for High-Resolution Lithography Applications	Dr. Subrata Ghosh (Nominee) Prof. Rabibrata Mukherjee (Thesis Examiner) Dr. Ananth Venkatesan (Subject Expert) Dr. Pradeep P Parameswaran (Guide) Dr. Mohammad Talha Dr. Venkata Krishnan Dr. Hari Varma	Prof. Rabibrata Mukherjee (IIT Kharagpur)  Prof. Haiwon Lee (Hanyang University, Republic of Korea)
23	Syamantak Khan (D14011)	DoJ: 01-08-2014 DoC: 24-01-2018 (3 Years, 5 months)	Dr. Chayan Kanti Nandi	New Insights into Carbon Nanodots: Analysis of Ensemble and Single Molecule Fluorescence	Dr. Prem Felix Siril (Nominee) Prof. Anindya Datta (Thesis Examiner) Dr. Tapasi Sen (Subject Expert) Dr. Chayan K Nandi (Guide) Dr. Ajay Soni Dr. Amit Jaiswal Dr. Varun Dutt Dr. Aditi Halder	Prof. Anindya Datta (IIT Bombay)  Prof. Dirk Guldi (Universitaet Erlangen Nuernberg, Germany)
24	Avdhesh Kumar (D14018)	DoJ: 25-08-2014 DoC: 23-07-2018 (3 Years, 11 months)	Dr. Muslim Malik	A Study of Instantaneous and Non-Instantaneous Impulsive Differential Equations with Applications in Control Problems	Dr. Syed Abbas (Chairman) Prof. Prawal Sinha (Thesis Examiner) Dr. D. N. Pandey (Subject Expert) Dr. Muslim Malik (Guide)	Prof. Prawal Sinha (IIT Kanpur)  Prof. Gnana Bhaskar Tenali (Florida Institute of Technology, USA)
25	Nidhi Baranwal (D14019) <b>Converted from MS to Ph.D.</b>	DoJ: 29-07-2013 DoC: 10-04-2018 (4 Years, 9 months)	Prof. S. P. Mahulikar	Infrared Signature of Jet Nozzle in Off-Design Operation of Combat Aircraft Engine	Dr. Rajeev Kumar (Chairman) Prof. C. Balaji (Thesis Examiner) Dr. P Anil Kishan (Subject Expert) Prof. S. P. Mahulikar (Guide) Dr. Mohammad Talha Dr. Bindu Radhamany Dr. Vishwanath Balakrishnan Dr. Vishal S Chauhan	Prof. C. Balaji (IIT Madras)  Prof. Rho Shin Myong, Gyeongsang National University, South Korea
26	Faria Rehman (D14036) <b>Converted from MS to Ph.D.</b>	DoJ: 29-07-2013 DoC: 09-05-2018 (4 Years, 10 months)	Dr. O.P.Singh (External Guide) Dr. Atul Dhar (Internal)	Characteristics of Double-Diffusive Finger Evolution: Numerical, Analytical and	Dr. Rajeev Kumar (Chairman) Prof. Atul Sharma (Thesis Examiner) Prof. S. C. Jain (Subject Expert)	Prof. Atul Sharma (IIT Bombay)  Prof. Andreas Tilgner (University of

			Guide)	Experimental Study	Dr. O.P.Singh & Dr. Atul Dhar (Guide) Dr. P Anil Kishan	Gottingen, Germany)
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**b) Master of Science (MS.(by Research))**

The following seven M.S. scholars and one ERP M.S. scholar have completed all the requirements for the award of the degree of Master of Science (M.S. (by Research)) including submission of the final approved thesis.

Sl. No	Name & Roll No.	Date of Joining/ Date of Completion	Thesis Title	Guide	Academic Progress Committee	External Examiners
1	Mr. Priybrat Sharma (S13012)	DoJ: 14.02.2014 DoC:01.02.2018(4 years)	Study of Hydrogen Fumigation in a Compression Ignition Engine	Dr. Atul Dhar	Dr. Rahul Vaish (Chairman) Dr. Atul Dhar (Guide) Dr. P Anil Kishan Dr. C. S. Yadav Dr. Sunny Zafar	Dr. Santanu De (IIT Kanpur) Dr. Sudarshan Kumar (IIT Bombay)
2	Mr. Punit Kumar (S14004)	DoJ: 11.08.2014 DoC:01.05.2018 (3 years, 9 months)	Study of Combustion Characteristics of Premixed and Diffusion Flame with Hydrogen and Methane Fuel	Dr. P Anil Kishan	Dr. Vishal S Chauhan (Nominee) Dr. Rajeev Kumar (Chairman) Dr. Dhiraj Patil (Invitee) Dr. P Anil Kishan (Guide) Dr. Atul Dhar Dr. C. S. Yadav Dr. Arpan Gupta	Prof. Sreedhara Sheshadri (IIT Bombay) Prof. Raja Banerjee (IIT Hyderabad)
3	Mr. Kumar Gaurav (S14005)	DoJ: 13.08.2014 DoC:19.02.2018 (3 years, 6 months)	Developing Methodology for Searching Efficient Thermoelectric Materials and Their Utilization in Designing Thermoelectric Generators	Dr. Sudhir K Pandey	Dr. Rajeev Kumar (Chairman) Dr. Sudhir K Pandey (Guide) Dr. Vishal S Chauhan Dr. Viswanath Balakrishnan Dr. Kaustav Mukherjee	Dr. V. Kanchana (IIT Hyderabad) Dr. Rajendra Singh Dhaka (IIT Delhi)
4	Mr. Sanjay Singh Tomar (S14010)	DoJ: 02.02.2015 DoC:23.07.2018 (3 years, 5 months)	Nonlinear Structural Response of Geometrically Imperfect Skewed Sandwich FGM Plates with Material Uncertainties	Dr. Mohammad Talha	Dr. Sudhir K Pandey (Nominee) Dr. Mohammad Talha (Guide) Dr. Rajesh Ghosh Dr. C. S. Yadav Dr. Arpan Gupta	Dr. M.S.Sivakumar (IIT Madras) Prof. Bhanu Kumar Mishra (IIT Roorkee)
5	Ms. Srishti Gautam (S15002)	DoJ: 20.07.2015 DoC:07.08.2018 3 years, 1 month)	Segmentation and Classification of Nuclei in PAPSmeas Images for Automated Cervical Cancer Screening	Dr. Arnab Bhavsar & Dr. Anil K Sao	Prof. B. D. Chaudhary (Nominee) Dr. Arnab Bhavsar & Dr. Anil K Sao (Guide) Dr. Renu M Rameshan Dr. Arpan Gupta	Dr. Sumantra Dutta Roy (IIT Delhi) Prof. Jayanthi Sivaswamy (IIT Hyderabad)
6	Mr.	DoJ: 27.07.2015	Torsional Vibration	Dr. Rajeev	Dr. Rahul Vaish	Dr. B.N.Singh (IIT

	Bangunde Abhishek Vishwanath (S15005)	DoC:30.08.2018 (3 years, 1 month)	Analysis and Fatigue Life Estimation of Turbo-Generator Coupled Shaft Under Electrical Disturbances	Kumar  Prof. S.C. Jain (Co- Guide)	(Nominee) Dr. Rajeev Kumar (Guide) Prof. S.C. Jain (Co- Guide) Dr. Atul Dhar Dr. Mohammad Talha Dr. Manoj Thakur	Kharagpur  Dr. P.M.Pathak (IIT Roorkee)
7	Mr. Sarthak Nag (S15009)	DoJ: 27.07.2015 DoC:28.08.2018 (3 years, 1 month)	Exhaust Gas Recirculation Assisted Hydrogen Diesel Combustion with Exhaust Heat Recovery	Dr. Atul Dhar  Dr. Arpan Gupta (Co- Guide)	Dr. Rahul Vaish (Nominee) Dr. Atul Dhar (Guide) Dr. Arpan Gupta (Co- Guide) Dr. P Anil Kishan Dr. Gaurav Bhutani Dr. Kunal Ghosh	Prof. Sudershan Kumar (IIT Bombay)  Prof. Anoop Kumar (NIT Hamirpur)
8	Mr. Manish Vaish (ERPS13 01)	DoJ: 21.04.2014 DoC:12.10.2018 (4 years, 6 months)	Experimental Study on Thermal Energy Harvesting using Ferroelectric Materials	Dr. Rahul Vaish  Dr. Vishal S Chauhan (Co- Guide)	Dr. Rajeev Kumar (Chairman) Dr. Rahul Vaish (Guide) Dr. Vishal S Chauhan (Co-Guide) Dr. Atul Dhar Dr. Satinder Sharma	Dr. Anuj Jain (Motilal Nehru NIT Allahabad)  Dr. Satyendra Singh (JNU, New Delhi)

**c) Master of Science in Chemistry (M.Sc. (Chemistry))**

The following twenty eight students have completed all the requirements for the award of the degree of Master of Science (M.Sc. (Chemistry)). Their names and Roll Nos. are as given below:

Sl. No.	Roll No.	STUDENT NAME
1	V16001	Shubham Sharma
2	V16002	Yamini Sharma
3	V16003	Maivizhikannan.V
4	V16004	Anuj Jain
5	V16005	Shivendra Singh
6	V16006	Anita Kumari
7	V16007	Prachi Bhatia
8	V16008	Nitika Arya
9	V16009	Ashwani Kumar
10	V16010	Kamaldeep
11	V16011	Anchala
12	V16012	Nishant Dhiman
13	V16013	Pooja Devi
14	V16014	Swati Siwach
15	V16015	Varnika
16	V16016	Kush Kaushik
17	V16017	Soharab Singh Grewal
18	V16018	Kamlesh Kumar

19	V16019	Anjali Varshney
20	V16020	Rohit
21	V16021	Deepa Thakur
22	V16022	Sonika
23	V16023	Anu
24	V16024	Rakesh Kumar
25	V16025	Monika Ahlawat
26	V16026	Priyanka
27	V16027	Richa
28	V16028	Abdul Salam

**d) Master of Science in Applied Mathematics (M.Sc. (Mathematics))**

The following eleven students have completed all the requirements for the award of the degree of Master of Science (M.Sc. (Applied Mathematics)). Their names and Roll Nos. are as given below:

Sl. No.	Roll No.	STUDENT NAME
1	V16041	Himani
2	V16042	Anjali
3	V16043	Srishti
4	V16044	Garima Dahiya
5	V16045	Bhisham Dev Verma
6	V16046	Bhoomika Sharma
7	V16047	Shubham Khansili
8	V16048	Mohnish P.
9	V16049	Narender
10	V16050	Naresh Kumar
11	V16051	Harsh

**e) Master of Technology in Energy Engineering with specialization in Materials (EEM) and Mechanical Engineering with specialization in Energy System (MES)**

The following four students have completed all the requirements for the award of the degree of Master of Technology in MES and EEM. Their names and Roll Nos. are as given below:

Sl. No.	Roll No.	STUDENT NAME	Specialization
1	T16001	Ayushi Mishra	MES
2	T16003	Abhishek Anand	EEM
3	T16004	Akash Kumar	EEM
4	T16005	Akhalesh Sharma	MES

**f) Master of Technology in Electrical Engineering with specialization in VLSI:**

The following seven students have completed all the requirements for the award of the degree of Master of Technology in Electrical Engineering with specialization in VLSI. Their names and Roll Nos. are as given below:

Sl. No.	Roll No.	STUDENT NAME
1	T16041	Indu Kumari
2	T16042	Sumit Kumar Pandey
3	T16043	Puneet Arora
4	T16044	Pooja Bansal
5	T16047	Banavath Raju Naik
6	T16049	Abhijit Sahoo
7	T16050	Shivendra Kumar Rathaur

**g) Master of Technology in Biotechnology:**

The following eight students have completed all the requirements for the award of the degree of Master of Technology in Biotechnology. Their names and Roll Nos. are as given below:

Sl. No.	Roll No.	STUDENT NAME	Specialization
1	T16071	Jyotsna Priyam	M.Tech in Biotechnology
2	T16072	Antara Mukhopadhyay	M.Tech in Biotechnology with specialization in Medical and Nano-Biotechnology
3	T16073	Divya Dhasmana	M.Tech in Biotechnology
4	T16074	Ruptanu Banerjee	M.Tech in Biotechnology with specialization in Medical and Nano-Biotechnology
5	T16075	Ankur Singh	M.Tech in Biotechnology
6	T16076	Som Dutt	M.Tech in Biotechnology
7	T16077	Kamatam Venkata Lingarao Koti	M.Tech in Biotechnology with specialization in Systems Biology
8	T16078	Nilesh Kumar Dixit	M.Tech in Biotechnology

**h) Bachelor of Technology (B.Tech.) in Computer Science and Engineering**

50 students have completed all the requirements for the award of 'Bachelor of Technology' degree in Computer Science and Engineering. Their names and Roll. Nos. are as given below:

Sl. No.	Roll No.	Student Name	Sl. No.	Roll No.	Student Name
1	B14101	AMANSHU RAIKWAR	26	B14126	SACHIN DHARIWAL
2	B14102	AMIT KUMAR	27	B14127	SAGAR KAUSHAL (With Minor in Management)
3	B14103	AMOD KUMAR CHOUDHARY	28	B14128	SAHIL ARORA
4	B14104	ARPIT KARWASARA	29	B14129	SAIF ALI AKHTAR
5	B14105	ARYAN KUMAR	30	B14130	SAKSHAM BATHLA

					(With Minor in Management)
6	B14106	ASHISH ARYA	31	B14132	SHIKHAR GUPTA
7	B14107	DEEPAK SHARMA	32	B14133	SIDDHANT KUMAR (with B.Tech Honors in CSE)
8	B14108	DEVARAKONDA VAMSI KRISHNA	33	B14134	SUMANT GARG
9	B14109	HARSH GUPTA (with B.Tech Honors in CSE)	34	B14135	SUNIL KUMAR
10	B14110	KAPARDI TRIVEDI (With Minor in Management)	35	B14136	TAPESH JOHAM
11	B14111	MANJUSH MANGAL	36	B14137	UMANG AGARWAL
12	B14112	MARIMGANTI SUDHANSHU	37	B14138	V VIVEK
13	B14113	MUTHIYAN NEHA (with B.Tech Honors in CSE)	38	B14139	VARUN BANSAL (with B.Tech Honors in CSE)
14	B14114	NASIR ANSARI	39	B14140	VINAY GOEL
15	B14115	NIMIT KALAL	40	B14141	YOGENDRA KUMAR DHIWAR
16	B14116	PARUL BANSAL	41	B14204	AKSHAY MATHEW
17	B14117	PRIYADHARSHINEE.S	42	B14225	PATEL SHRAVAN RAJNARAYAN
18	B14118	PRIYANSH SAXENA	43	B14232	SHASHANK SETHI
19	B14119	PURUSHOTTAM	44	B14241	VINAYAK SANGAR
20	B14120	RAGHAV SETHI	45	B14305	ANINDYA GANGOPADHYAY
21	B14121	RAHUL SINGH	46	B14306	ASHUTOSH KUMAR VERMA
22	B14122	RAMAVATH KIRAN KUMAR	47	B14314	HARSHIT BANSAL
23	B14123	RISHABH KUMAR	48	B14322	MANDALA RISHIK REDDY
24	B14124	ROHIT CHAUHAN	49	B14324	NAMAN AGARWAL
25	B14125	ROHIT KUMAR VERMA	50	B14332	RAJAT MEHRA

**i) Bachelor of Technology (B.Tech.) in Electrical Engineering**

31 students have completed all the requirements for the award of 'Bachelor of Technology' degree in Electrical Engineering. Their names and Roll. Nos. are as given below:

Sl. No.	Roll No.	Student Name	Sl. No.	Roll No.	Student Name
1	B14201	ABHIJEET SINGH	17	B14221	NEHA GREWAL
2	B14202	ABHINAV KUMAR	18	B14223	NITESH BANSIWAL
3	B14203	ABHISHEK KUMAR MISHRA	19	B14224	PARTIK KUMAR RAJPUT (With Minor in Management)
4	B14205	AKSHAY PATHAK	20	B14226	PULKIT RAJGADIYA
5	B14206	ANUBHAV AGRAWAL	21	B14227	RAKDE ANURAG KESHAV
6	B14208	ASHOK KUMAR GODARA	22	B14229	RISHABH MEENA
7	B14210	CHALLA YASWANTH YADAV	23	B14230	SANDEEP SINGH
8	B14211	DEEPESH YADAV	24	B14231	SHAILESH MEENA
9	B14212	DIVYANSHU VERMA	25	B14234	SHIVAM RICHHARIYA

10	B14213	HARSHIT VARSHNEY	26	B14235	SHRADHAN KUMAR
11	B14214	JITESH KUMAR GUPTA	27	B14238	SHUSHMITA CHAUDHARY
12	B14215	KISHOR KUMAR VERMA	28	B14240	SONAWANE AKSHAY RAJENDRA <i>(With Minor in Management)</i>
13	B14216	KULDEEP MEENA	29	B14131	SANJAY KUMAR MEENA
14	B14217	KUMAR ASHUTOSH	30	B14311	DANISH EQUBAL
15	B14218	LAKSHAY <i>(With Minor in Management)</i>	31	B14320	MAEGHEL PURI <i>(With Minor in Management)</i>
16	B14219	LOKESH KASANA			

**j) Bachelor of Technology (B.Tech.) in Mechanical Engineering**

26 students have completed all the requirements for the award of 'Bachelor of Technology' degree in Mechanical Engineering. Their names and Roll. Nos. are as given below:

Sl. No.	Roll No.	Student Name	Sl. No.	Roll No.	Student Name
1	B14301	AAKASHDEEP	14	B14321	MANAN VARSHNEY <i>(With Minor in Management)</i>
2	B14303	ABHISHEK KUMAR <i>(With Minor in Management)</i>	15	B14323	MANISH YADAV
3	B14304	AKASH KUMAR KUSHWAHA <i>(With Minor in Management)</i>	16	B14325	NAVRATAN LAL SAROJ
4	B14307	ATISHAYA JAIN	17	B14326	NIKHIL KAUSHIK
5	B14308	AVNISH GUPTA	18	B14327	PADAM CHAND MEENA
6	B14309	BRAHMANAND MEENA	19	B14328	PANKAJ PATIDAR
7	B14310	CHAMAN KUMAR	20	B14329	PRASHANT MUNDOTIA
8	B14312	ESHAN JOSHI <i>(With Minor in Management)</i>	21	B14330	PRASHANT SINGH
9	B14313	GOURAV BAGRI	22	B14331	RAHUL RAJ
10	B14315	HITESH KUMAR THAKUR	23	B14333	RAVI KUMAR
11	B14316	KAKA RAHUL SAI	24	B14335	SATISH KUMAR SINGH
12	B14318	KUNAL GOUR	25	B14336	SAURABH AGRAWAL
13	B14319	LOVEDEEP	26	B14339	THYARANADURGAM LOHITH

Board of Academics may recommend the award of degrees for approval by the Senate.

**One Time Approval for the courses taken by graduating batch of B.Tech, M.S., Ph.D., M.Tech students.**

Sl.No.	Course No. & Credits	Course Name	Approval	Remarks
1	EE-304(4)	Communication Theory	Approved in 4 <sup>th</sup> senate with 3 credits.	Offered in Jan-July 2017 by Dr. Siddharatha Sarma
2	ME 210(3)	Hydraulics Engineering	In 9 <sup>th</sup> senate course number was approved CE 251	Offered in Winter Term Dec 2017 by Dr. Deepak Swami
3	EM 604(4)	Energy: Environment Policy and Law	OTA in 3 <sup>rd</sup> convocation	Offered in Jan-July 2016 by Dr. Varun Dutt
4	HS 540(3)	Energy: Economics, Environment and Policy	In 10 <sup>th</sup> Senate EN 504(3) Energy: Environment, Policy and Law was approved.	Offered in Aug–Dec 2016 by Dr. Varun Dutt
5	CS 593 (3)	Big Data and Map Reduce	In 9 <sup>th</sup> Senate CS 561(3) Map Reduce and Big Data was approved	Offered in Jan-July 2014 by Dr. Sukumar Bhattacharya
6	MA 606(3)	Mathematical Models for Infectious Diseases	In 2 <sup>nd</sup> adhoc senate meeting MS 650(3) Mathematical Models for Infectious Diseases was approved	Offered in Aug-Dec 2012 by Dr. Sarita Azad (Only 3 Ph.D. students registered)
7	MA 705(3)	Modelling Population Dynamics	Not Approved (Only offered one time)	Offered in Aug-Dec 2012 by Dr. Nitu Kumari (Only 1 Ph.D. student registered)
8	ME 624(3)	Convective Heat and Mass Transfer	In 9 <sup>th</sup> senate ME 616(3) Convective Heat and Mass Transfer was approved	Offered in Jan-July 2015 by Dr. O.P.Singh
9	PH 602(3)	Quantum Theory of Solids	Not Approved (Only offered one time)	Offered in Jan-July 2012 by Prof. Argaya Tarafdar (Only 2 Ph.D. students registered)
10	PH 706 (3)	Statistical Mechanics and Applications	Not Approved (Only offered one time)	Offered in Aug-Dec 2012 by Dr. Prasanth P Jose (Only 4 Ph.D. students registered)
11	EM 658 (3)	Deformation Behavior of Energy Materials	In 10 <sup>th</sup> Senate EN 611(3) Durability Behavior of Energy Materials was approved	Offered in Aug-Dec 2015 by Dr. Vishal S Chauhan
12	ME 502(3)	Nanomanufacturing	ME 509(3) Nanomanufacturing approved by Chairman, Senate	Offered in Aug-Dec 2015 by Dr. Viswanath Balakrishnan

**Approval for the courses taken by graduating batch of B.Tech. students.through Semester Exchange**

Sl. No.	Course Code (Credits in bracket)	Course Name
1	ET1468(5)	SIGNAL PROCESSING I
2	ET1469(5)	SIGNAL PROCESSING II
3	IN2003(5.33)	EFFICIENT ALGORITHMS AND DATA STRUCTURES
4	IN2062(3.33)	TECHNIQUES IN ARTIFICIAL INTELLIGENCE
5	IN2067(4)	ROBOTICS
6	IN2075(3.33)	MICROPROCESSORS
7	IN2119(3.33)	USER MODELING AND RECOMMENDER SYSTEMS
8	IN2189(2)	COMPUTER ARCHITECTURE AND NETWORKS
9	IN2258(3.33)	MIDDLEWARE AND DISTRIBUTED SYSTEMS
10	MSCAME1101(3.33)	PRACTICAL INTRODUCTION TO FEM-SOFTWARE I
11	MSMME1104(4)	QUALITY MANAGEMENT
12	MSSISC5108(4.67)	HEAT AND MASS TRANSFER
13	MW0799(3.33)	INTRODUCTION TO NUCLEAR ENERGY
14	MW1112(2)	NUCLEAR FUSION REACTOR ENGINEERING
15	MW1906(3.33)	TECHNOLOGY AND APPLICATION OF CURRENT AND FUTURE NUCLEAR REACTORS
16	SV0010(5)	INTRODUCTION TO SWEDISH LEVEL I
17	SV0011(5)	INTRODUCTION TO SWEDISH LEVEL II
18	17SS34181(4)	CORPORATE CULTURE AND SOCIAL RESPONSIBILITY
19	17SS44691(4)	FOUNDATIONS OF STRATEGIC MANAGEMENT
20	ET2542(5)	ADAPTIVE SIGNAL PROCESSING
21	ET2543(5)	DIGITAL TRANSMISSION AND RADIO COMMUNICATIONS
22	ET2545(5)	SOUND AND VIBRATION ANALYSIS
23	ET2583(5)	APPLIED ADAPTIVE SIGNAL PROCESSING
24	MT1470(5)	APPLIED SOLID MECHANICS
25	MT1488(5)	TECHNICAL COMMUNICATION FOR ENGINEERS
26	PA2559(5)	SOFTWARE METRICS
27	SV0010(5)	INTRODUCTION TO SWEDISH LEVEL I



## IIT Mandi

### Proposal for a New course

**Course Number** : CE587  
**Course Name** : Industrial/Research Internship (During Summer Term -1])  
**Credits** : 0-0-2-1  
**Prerequisites** : Mini Project  
**Intended for** : PG (M. Tech. in Structural Engineering)  
**Distribution** : Discipline Core  
**Semester** : odd

**Preamble:** This course has been designed to give an exposure of industrial/research work to the first year MTech Structure students. In this course, the students will either visit the industry or join under any faculty member who offers the internship either within the institute or outside the institute. This course will start at the end of the even semester (February-July) and will continue till the beginning of odd semester (August-December). The project should have relevance to structural engineering. The registration will begin in May-June and students need to register before the start of summer vacations. They will do the internship during summer break and their evaluation will be done during the odd semester (August-December). The evaluation will be in the form of presentation and a report. The grades will be added in the third semester mark sheet.

#### Course Modules with Quantitative Lecture Hours:

There is no regular lecture hours or practical classes for this course as it will be carried out during summer vacations. The students will have to work on their specific projects on their own in a self-learning mode. The supervisor will give necessary inputs or suggestions throughout the work.

#### Similarity content declaration with existing courses:

Sl. No.	Course Code	Similarity Content	Approximate % of Content
1	NA	NA	NA

#### Justification for new course proposal if cumulative similarity content is > 30%:

Not Applicable

#### Textbooks:

There will be no specific textbook for this course.

#### Reference Books:

There will be no specific reference book for this course. Students are supposed to learn to review literatures.

#### Approvals:

Other faculties interested in teaching this course: All faculties from SE

Proposed by: Dr. Subhamoy Sen and Dr. Rajneesh

School: School of Engineering (SE)

Signature:

Date:

Recommended / Not Recommended, with comments:

\_\_\_\_\_  
Chairman, CPC

Date: \_\_\_\_\_

Approved / Not Approved:

\_\_\_\_\_  
Chairman, Senate

Date: \_\_\_\_\_



# IIT Mandi

## Proposal for a New Course

**Course Number** : HS524  
**Course Name** : India in the 1950s: Biography of a Foundational Decade

**Credits** : 3-0-0-3  
**Prerequisites** : None  
**Intended for** : Ph.D./Masters/B.Tech. (3<sup>rd</sup> and 4<sup>th</sup> Year)  
**Distribution** : Free Elective  
**Semester** : Even/Odd

### 1. Preamble:

This course will introduce students to a seminal decade in Indian history by focusing on political developments, economic choices and social ferment in the immediate aftermath of Independence. Relying on research by historians, sociologists and political scientists, it will trace departures from—and continuities with—late colonial India. Students will learn to assess the impact of developmental decisions taken in the 1950s on present-day India. Debates in the realms of free speech, international relations, gender justice, citizenship and nationalism—all pertinent today—will be surveyed and students will learn to evaluate the very real impact of the past on the present. Each module will begin with a discussion of a contemporary debate to flag important issues in India today, with a view to tracing their genealogy. However, the aim of this course will be to understand the 1950s in its own terms.

### 2. Course Modules:

#### Module 1: Introduction to a Foundational Decade (2 hours)

- Why (and who should) study the 1950s?

#### Module 2: Refugees and Citizens in Independent India (8 hours)

- The Impact of Partition on Indian Polity
- Resettlement: A Case Study of Delhi
- Rehabilitation: A Case Study of Calcutta

#### Module 3: Forging India: States and the Nation (8 hours)

- Integration of Princely States
- Linguistic Reorganization of States
- Making of the Indian Constitution



#### **Module 4: Experimenting with Democracy (6 hours)**

- 1<sup>st</sup> General Elections
- Developmental Strategies: Debates

#### **Module 5: Legislating Gender Relations (2 hours)**

- The Hindu Code Bill Controversy

#### **Module 6: India's International Relations in the 1950s (8 hours)**

- The Cold War context (Relations with the USA and the USSR)
- The Non-Aligned movement
- Relations with Pakistan (Kashmir, Indus Waters)
- Relations with China

#### **Module 7: The State and Media in the 1950s (8 hours)**

- Debates over 'free speech' in Independent India
- 1<sup>st</sup> Amendment to the Constitution: Public Reaction
- Press Act of 1952
- Nation-Building Cinema of the 1950s

#### **3. Textbooks:**

- Gyanesh Kudaisya, *A Republic in the Making: India in the 1950s* (Oxford University Press, 2017).

#### **4. References :**

- Ravinder Kaur, *Since 1947: Partition and Punjabi Migrants of Delhi* (Oxford University Press, 2007)
- Joya Chatterji, *The Spoils of Partition: Bengal and India, 1947-67* (Cambridge University Press, 2007).
- Tai Yong Tan and Gyanesh Kudaisya, *The Aftermath of Partition in South Asia* (Routledge, 2000).



- Ornit Shani, *How India Became Democratic: Citizenship and the Making of the Universal Franchise* (Cambridge University Press, 2017).
- Ananya Vajpeyi, *Righteous Republic: The Political Foundations of Modern India* (Harvard University Press, 2012).
- Asha Sarangi, *Language and Politics in India* (Oxford University Press, 2009).
- Sudha Pai and Avinash Kumar, *Revisiting 1956: BR Ambedkar and States Reorganization* (Orient Blackswan 2014).
- Paul Brass, *Language, Religion and Politics in North India* (Cambridge University Press, 1974).
- Pulapre Balakrishnan, *Economic Growth in India: History and Prospect* (Oxford University Press, 2010)
- B.R. Tomlinson, *The Economy of Modern India, 1860-1970* (Cambridge University Press, 1993).
- Chitra Sinha, *Debating Patriarchy: The Hindu Code Bill Controversy in India, 1941-1956* (Oxford University Press, 2012).
- Paul M. McGarr, *India, Pakistan and the Early Cold War, 1947-1956* (Cambridge University Press, 2013).
- Srinath Raghavan, *War and Peace in Modern India* (Permanent Black, 2010).

#### 5. Similarity Content Declaration with Existing Courses

S.N.	Course Code	Similarity Content	Approx. % of Content
1.	HS 255 India Since Independence	Partition The Nehruvian Era Five year Plans	15%
2.	HS 262 The Indian Constitution	Making of the Constitution	5%
3.	HS 263 Popular Culture in Modern India	Nation Building Cinema of the 1950s	5%
			25%

5. Justification for new course proposal if cumulative similarity content is > 30%: N/A

Approvals:

Proposed by: Dr. Devika Sethi

School: SHSS

Other Faculty interested in teaching this course: Dr. Manu Devadevan

Signature: \_\_\_\_\_

Date: 08.10.18

Recommended/Not Recommended, with Comments:

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Chairman, CPC

Date: \_\_\_\_\_

*Approved/Not Approved*

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Chairman, Senate

Date: \_\_\_\_\_

