

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE

No. MS/480(i)/Senate/IITR(12/2001)

Dated Jan. 10, 2002

All Members of the Senate
Indian Institute of Technology, Roorkee

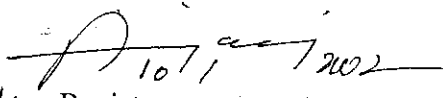
Subject: **Minutes of the 1st Meeting of the Senate held on 13.12.2001 at 11.30 A.M. in the Senate Hall**

Dear Sir,

Enclosed herewith please find a copy of the Minutes of 1st meeting of the Senate held on 13.12.2001 at 11.30 A.M. in the Senate Hall, for your kind perusal. Your comments, if any, on the minutes, may please be sent within 15 days.

Yours faithfully,

Encl: as above


Actg. Registrar

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Minutes of the 1st Meeting of Senate held on 13.12.2001 at 11.30 A.M. in the Senate Hall

The following were present:

1. Prof.D.V.Singh, Director Chairman
2. Prof.K.G.Ranga Raju, Dy. Director
3. Dr. Najamuddin
4. Dr. S.D. Bhattacharya
5. Dr. S.C.Gupta
6. Dr. Surendra Kumar
7. Dr. Bikash Mohanty
8. Dr. A.K.Jain
9. Dr. G.Bhattacharjee
10. Dr. R.N.Goel
11. Dr. Ravi Bhushan
12. Dr. A.N.Garg
13. Dr.V.K.Gupta
14. Dr. Anil Kumar
15. Dr. (Mrs) Mala Nath
16. Dr. S.S. Saini
17. Dr. P.C. Jain
18. Dr. S.K. Kaushik
19. Prof.A.K. Mathur
20. Prof. M.K. Mittal
21. Dr. H.C. Mehndiratta
22. Dr. G.L. Asawa
23. Dr. Arvind Kumar
24. Dr. G. Ramaswamy
25. Dr. N.M. Bhandari
26. Dr. N.Puri
27. Dr. V.K. Gupta
28. Dr. R.M. Vasani
29. Dr. S.S. Jain
30. Dr. Deepak Kashyap
31. Dr. (Mrs.) Indu Mehrotra
32. Dr. (Mrs) Renu Bhargava
33. Dr. D.K. Paul
34. Dr. Ashwani Kumar
35. Dr. H.R. Wason
36. Dr. S.K.Upadhyay
37. Dr. H.Sinhali
38. Dr. R.P.Gupta
39. Dr. A.K.Awasthi

40. Dr. A.K. Pachauri
41. Dr. H.K. Verma
42. Dr. J.D. Sharma
43. Dr. H.O. Gupta
44. Dr. Vinod Kumar
45. Dr. R.P. Agarwal
46. Dr. D.K. Mehra
47. Dr. R.C. Joshi
48. Dr. A.K. Saxena
49. Dr. (Mrs.) Kum Kum Garg
50. Dr. S. Sarkar
51. Dr. N.K. Agarwal
52. Dr. S.N. Sinha
53. Dr. Arun Kumar
54. Dr. D.K. Srivastava
55. Dr. Ranvir Singh
56. Dr. Sabiruddin
57. Dr. Pashupati Jha
58. Dr. D.K. Nauriyal
59. Dr. (Mrs) Renu Rastogi
60. Dr. M.C. Bansal
61. Dr. A.K. Singh
62. Dr. J.S. Upadhyay
63. Prof. V.K. Nangia
64. Dr. Arun Verma
65. Dr. U.S. Gupta
66. Dr. G.S. Srivastava
67. Dr. (Mrs.) R. R. Bhargava
68. Dr. T.R. Gulati
69. Dr. R.C. Mittal
70. Dr. J.S. Saini
71. Dr. H.S. Shan
72. Dr. V.K. Goel
73. Dr. S.P. Nigam
74. Dr. N.K. Mehta
75. Dr. D.B. Goel
76. Dr. P.S. Mishra
77. Dr. Staya Prakash
78. Dr. R.D. Agarwal
79. Dr. V.K. Tewari
80. Dr. Ishwar Singh
81. Dr. Sushil Auluck
82. Dr. B.D. Indu
83. Dr. A.K. Jain

84. Dr. Ravindra Nath
85. Dr.G.S.Singh
86. Dr. Vir Singh
87. Prof. Gopal Chauhan
88. Prof. Devadutta Das
89. Dr. U.C.Chaube
90. Dr. S.K.Tripathi
91. Dr. G.C.Mishra
92. Dr. Nayan Sharma
93. Prof. M.P.Jain
94. Mr. Arun Kumar, Head, AHEC
95. Dr. R.P.Singh, Head, Bioscience & Biotechnology
96. Mr: Yogendra Singh, Librarian
97. Lt.Col.(Retd.) A.K.Srivastava, Registrar Secretary

1.1.0 PROCEDURAL

1.1.2 Opening remarks by the Chairman

The Chairman (Director) welcomed the members to the first meeting of the newly constituted Senate of IIT Roorkee and stated that the notification for constitution of the new Senate and also for the dissolution of the Academic Council of the erstwhile University of Roorkee were circulated on 10.12.01. He placed on record his sincere thanks and gratitude to the outgoing members of the Academic Council of the University of Roorkee. He told that in the IIT context the Senate is the successor Body of the Academic Council and has the same duties and functions as were vested in the Academic Council. However, this Body has certain statutory powers and some of them are terminal in nature. Decisions taken on different academic issues, are terminal in nature but certain other issues which have financial implications are required to go to the Board of Governors for ratification. He further said that this was an urgent meeting convened at short notice and expressed his regret for tabling the agenda at the meeting itself. This was done so that certain decisions could be taken with reference to the Convocation scheduled on 15.12.01. Therefore, only selected and urgent items had been included in the Agenda. He hoped that the House would be able to take decisions on the items placed before it. However, if there were items which might require more deliberations and analysis, the same could be postponed/ withdrawn.

1.1.2 Welcome to the first members of the new Senate of the IIT Roorkee:

The Senate welcomed the first members of the new Senate, it being the first meeting after the conversion to IIT Roorkee.

1.1.3 To report the constitution of the new Senate of the Institute:

After some clarifications by the Chairman (Director) with regard to the induction of the Workshop Superintendent of the Institute and six other members of Staff on the Senate, and some minor corrections, the Senate recorded the constitution of the Senate as under:

- (a) The Director Chairman
- (b) The Dy. Director
- (c) All Professors of the Institute
- (d) Three persons, not being employees of the Institute nominated by the Chairman of the Board of Governors from among educationists of repute, each from the fields of Science, Engineering and Humanities.
 - 1. Prof.K.L.Chopra, IIT, New Delhi
 - 2. Prof.Surendra Prasad, IIT, New Delhi
 - 3. Prof.S.R.Bhatt, Delhi University, Delhi
- (e) All Heads of the Departments, Centres (other than Professors) of the Institute:
- (f) The Librarian of the Institute
- (g) One Warden of the Institute: (For one year in rotation)

Dr. S.P.Srivastava, Assoc.Professor, Elect. Engg. Deptt.
(Chief Warden, Rajendra Bhawan)
- (h) Workshop Superintendent of the Institute:

To be decided.
- (i) Six Members of the staff of the Institute for their special knowledge appointed by the Chairman of Board of Governors:

To be decided.
- (j) Registrar Secretary

1.1.4 To record the apologies received for absence:

The Senate recorded the apology for absence received from the following members:

- 1. Prof.R.C.Agarwal, Earthquake Engg.
- 2. Prof.(Mrs) B.Sinha, E. & C E Dept.
- 3. Prof.Surendra Prasad, Dean Academic, IIT Delhi

1.2.0 Confirmation of the minutes of the last meeting:

NIL

1.3.0 To report actions taken on the minutes of the last meeting:

NIL

1.4.0 ITEMS FOR CONSIDERATION:

1.4.1 Considered the proposal to start modular M.Tech.(Process Integration) programme in Chemical Engg. Deptt.

After a protracted discussion on the proposal, as contained in the Annexure attached with the agenda note, the Senate;

RESOLVED that the proposal be postponed for consideration in the next meeting.

However, the concept of M.Tech. modular programmes be accepted in principle.

1.4.2 Considered the recommendations of the Academic Council to start a three semester M.Tech. Programme in Industrial Safety and Hazard Management:

RESOLVED that the above proposal be withdrawn and be brought again to the Senate with full details of the course structure etc. and the specific proposal on which the approval of the Senate is required. FURTHER, a committee, comprising the following be constituted to examine all such proposals and to work out the faculty requirements for all the proposed programmes and to submit its recommendations for the consideration of the Senate:

1. Dean Research and Indl. Liaison Chairman
2. Dean Academic Programmes
3. Prof.H.R.Wason, Earthquake Engg. Deptt.
4. Prof.B.K.Mohanty, Chem. Engg. Deptt.

1.4.3 Considered the recommendations of the Academic Council to start a five integrated Dual Degree (B.Tech. and M.Tech.) Programme in Hydrocarbon Engineering.

RESOLVED that the above proposal be withdrawn and be brought again in the Senate with full details of the course structure etc. after the committee, as constituted under item no. 1.4.2. has examined the proposal.

1.4.4 Considered recommendations of Postgraduate Board to redesignate the existing postgraduate academic programmes:

After some discussion, the Senate RESOLVED that the first part of the recommendations of PG Board be approved as given below:

- (i) The Master's programme in the Department of Architecture and Planning may continue to be designated Master of Architecture (M.Arch.) and Master of Urban and Rural Planning M.U.R.P.).
- (ii) The existing Master of Engineering programmes in all academic departments be redesignated as Master of Technology (M.Tech.) programmes (3 semester duration).
- (iii) The M.C.A. (Master of Computer Applications) and M.B.A. (Master of Business Administration) programmes may continue to be designated as such.
- (iv) The Master of Technology (Computer Science & Technology) in the Department of Electronics and Computer Engineering be renamed Master of Technology (Computer Science and Engineering) to be in conformity with the change already approved by the Department of E. & C. E. for undergraduate programme.
- (v) Master of Technology Programme in the Department of Earth Sciences in the area of Applied Geology and Applied Geophysics and Master of Technology programme in the area of Solid State Electronics in the Department of Physics may continue with the existing designations.
- (vi) Master of Philosophy programmes in the Departments of Chemistry, Mathematics and Physics may continue with the existing designations.
- (vii) The Master of Science (M.Sc.) programmes may continue with the existing designations.
- (viii) The Department of Hydrology is offering Master of Engineering and Master of Hydrology programmes with the same course structure and contents. Both of these programmes be redesignated as Master of Technology (Hydrology).
- (ix) The existing Postgraduate Diploma programmes in the Department of W.R.D.T.C., Earthquake Engineering and Hydrology be run as per the existing practice.
- (x) The University Diploma programmes in the areas of Pulp and Paper and Process Instrumentation may be phased out.

The other recommendations of the P.G. Board, as given at section (xi) of the agenda note, be further examined for which feedback may be collected by the Dean Academic Programme, and a revised proposal be put up before the Senate.

- 1.4.5 Considered the reservation policy for admissions to postgraduate programmes:

After some discussion, the Senate RESOLVED that the reservation policy for admissions to undergraduate programmes in the Institute, as adopted for the academic session 2002-2003, be also applied for the admission to Postgraduate Programmes. However, if any change is considered necessary, the same be approved by the Director on the recommendations of the Dean Academic Programmes and the Chairman PG Admission Committee of IIT Roorkee.

- 1.4.6 Considered the three - month relaxation in minimum residence requirement for submission of Ph.D. thesis by Ms. Kavita Saketi Swaroop Rattan, Research Scholar, Department of Bio-Sciences and Bio Technology.

RESOLVED that as recommended by the Research Degree Committee in its meeting held on 28.9.2001, Ms.Kavita Saketi Swaroop Rattan, Research Scholar, Deptt. of Bio Science and Bio Technology is allowed a three - month relaxation in the minimum residential requirement for submission of her Ph.D. thesis.

Note: The note of dissent of Prof. G. S. Singh of Physics Deptt. on the above resolution was recorded.

- 1.4.7 To consider the provision of credit transfers from any other institute to IIT Roorkee for award of degree:

This item was postponed.

- 1.4.8 To consider waiving of the Institute fee from the students of Foreign Technical Institutes visiting the Institute under an MoU on reciprocal basis:

This item was postponed.

- 1.4.9 To consider the MOU to be signed between IIT Roorkee and KTH Sweden.

This item was postponed.

- 1.4.10 To consider the MOU to be signed between Indian Institute of Technology, Roorkee and Arba Minch Water Technology Institute, Arba Minch, Ethiopia.

This item was postponed.

- 1.4.11. Considered renaming of Chancellor's and Vice-Chancellors Medals being awarded for academic excellence.

RESOLVED that since the University of Roorkee has been converted into I.I.T., and now there are no positions of Chancellor and Vice-Chancellor, the Chancellor's and Vice-Chancellor's medals be renamed as follows, with the same criteria for award of these medals as were in force in the past.

- (a) The 'Chancellor's Medal' may be renamed the 'PRESIDENT'S MEDAL.'
- (b) The 'Vice-Chancellor's Medal' may be renamed the 'DIRECTOR'S MEDAL'.

- 1.4.12 To consider if a student should be declined academic registration in a semester one month after the date of registration.

This item was postponed.

- 1.4.13 To consider the recommendations of Board of Studies of Civil Engg. for recognising the Space Application Centre(SAC, ISRO) Ahmedabad as a Centre for carrying out research work for a Ph.D. degree in Civil Engg.

This item was postponed.

1.5.0 REPORTING ITEMS:

- 1.5.1 Reported Ph.D. viva-voce examination results of the candidates which have been approved by the Vice-Chancellor/ Director.

The action (as per details given in Annexure 1) taken by the Vice-Chancellor/ Director was noted.

- 1.5.2 Reported that the title of the Undergraduate Programme B.E. (Computer Science and Technology) has been changed to B.Tech.(Computer Science and Engineering) as approved by the Director.

The action taken by the Vice-Chancellor (Director) was noted.

- 1.5.3 Reported the change of the title of Undergraduate Engineering Programme from B.E. to B.Tech.as approved by the Vice-Chancellor (now Director):

The action taken by the Vice-Chancellor (now Director) was noted.

- 1.5.4 Reported the policy for reservation of seats and eligibility criteria for admission in JEE 2002, at IIT Roorkee

The reservation policy and the eligibility criteria, as given in the Agenda note which was based on the criteria of the IITs was noted.

- 1.5.5 Reported the formats of Degrees/ Diplomas to be awarded in Annual Convocation 2001 as approved by the Director:

The format for the Ph.D. degree was replaced by a fresh format and placed on the table. After some discussion, the house was of the unanimous view that for this year, the formats of Degrees/ Diploma to be awarded in Annual Convocation scheduled on 15.12.01 and as attached with the agenda note be noted. However, the Senate FURTHER RESOLVED that desirable change in the format i.e. shifting of seal from the right to the left side or to the top etc., be considered by the Dean Academic Programmes, and a proposal to that effect be placed in the Senate.

- 1.5.6 Reported the eligibility criteria for admissions to Ph.D. programmes being adopted for admissions in Jan.2002.

After some discussion, the Senate came to the conclusion that the eligibility criteria for Ph.D. admissions, as given in the agenda note, be noted for Ph.D. admissions for Jan. 2002. For future admission, new draft ordinances be prepared by Prof. Ravi Bhushan Committee and circulated to all the Depts / Centres for comments. Thereafter, the finalised ordinances be placed before the Senate for consideration and approval.

- 1.5.7 Reported that two students of M.B.A. course 2nd year and one student of M.Sc. (Applied Mathematics) 2nd year have been allowed to register for more than the maximum limit of credits in the Autumn Semester for the session 2001-2002 as approved by the Director.

The Senate noted the decision of the Director as per the details given below.

Sl. No.	Name	Enrolment No.	Max. Limit approved by the Academic Council	Opted for by the Students
1.	Roli Singh, MBA II year	007534	28	29
2.	Rachna Maurya M.B.A.- II year	007539	28	29
3.	Hema Rani M.Sc. (App.Maths) II year	006904	28	30

The meeting ended with a vote of thanks to the Chair.

Sl. No.	Name of the Candidate	Department	Title of the thesis
1.	PUSHPLATA (MS.)	ARCH. & PLANNING	URBAN DESIGN MATRIX FOR HILL TOWNS
2.	MANIKA NEGI (MS.)	ARCH. & PLANNING	PLANNING FOR SUSTAINABLE DEVELOPMENT IN GARHWAL HILL REGION
3.	LIZMOL MATHEW (MS.)	ARCH. & PLANNING	POLICY FOR RESIDENTIAL LAND UTILIZATION WITH ENVIRONMENTAL CONSIDERATION
4.	RAAD HASSANI SULTAN	BIOSCIENCES & BIOTECHNOLOGY	STUDIES ON ISOLEUCINE, VALINE AND LEUCINE AUXOTROPHS OF SINORHIZOBIUM MELILOTI
5.	NEERAJ VIJ	BIOSCIENCES & BIOTECHNOLOGY	STUDIES ON THE ROLE OF PYRIMIDINE BIOSYNTHETIC PATHWAY OF RHIZOBIUM MELILOTI IN SYMBIOSIS
6.	BASIL ABDUL-ZAHRAH ABBAS	BIOSCIENCES & BIOTECHNOLOGY	STUDIES ON AUXOTROPHIC MUTANTS OF SULFUR-CONTAINING AMINO ACIDS OF SINORHIZOBIUM MELILOTI
7.	RAJ KUMAR	BIOSCIENCES & BIOTECHNOLOGY	MICROBIAL PRODUCTION OF CELLULASES FOR BIOCONVERSION OF LIGNOCELLULOSIC WASTES
8.	ABDAL-KAREEM MOHAMMAD AL-AMEEN AL-MAHMOUD	CHEMICAL ENGG.	SELECTIVE DISPROPORTIONATION OF TOLUENE TO PRODUCE BENZENE AND P-XYLENE
9.	ARINJAY KUMAR	CHEMICAL ENGG.	STUDIES ON ADSORPTION AND BIOREGENERATION PROCESSES IN GAC SYSTEMS
10.	DEVENDRA PAL SINGH NEGI	CHEMISTRY	PHOTOPHYSICAL AND PHOTOCATALYTIC BEHAVIOURS OF Q-Cds IN THE PRESENCE OF SOME HETEROCYCLES
11.	PANKAJ KUMAR	CHEMISTRY	ELECTROANALYTICAL STUDIES ON SOME IONIC SENSORS FOR HEAVY METALS
12.	RAJENDRA SINGH	CHEMISTRY	SYNTHESIS AND STRUCTURAL STUDIES OF Mn AND Ni COMPLEXES WITH HINDERED TRIS (PYRAZOLYL) BORATES
13.	AMIT PANWAR	CHEMISTRY	SYNTHESIS OF SOME POLYAZA-MACROCYCLES AND THEIR APPLICATIONS AS ELECTROCHEMICAL SENSORS
14.	PRIYANKA GUPTA (MS.)	CHEMISTRY	OXIDATION CHEMISTRY OF SOME BIOLOGICALLY IMPORTANT N-HETEROCYCLIC COMPOUNDS
15.	MUJAWAMARIYA JEANNE D'ARC (MS.)	CHEMISTRY	STUDIES ON ION SELECTIVE ELECTRODES BASED ON CYANOPOLYMERS
16.	MONICA SHARMA (MS.)	CHEMISTRY	REMOVAL OF SOME TOXIC SUBSTANCES FROM AQUEOUS SOLUTIONS USING INDUSTRIAL WASTES
17.	HOUSHYAR EIMANI KALEHSAR	CIVIL ENGG.	EXPERIMENTAL AERODYNAMIC STUDIES ON TALL RECTANGULAR BUILDINGS
18.	ALEMAYEHU MAKONNEN G/SELASSE	CIVIL ENGG.	STUDIES ON DENITRIFICATION -DEFLUORIDATION OF WATER USING SBR SYSTEM
19.	MOHAMMAD ATHAR	CIVIL ENGG.	STUDY OF VORTEX CHAMBER TYPE SEDIMENT EXTRACTOR
20.	RAJAMMA B. (MS.)	CIVIL ENGG.	STOCHASTIC MODEL AND EXPERT SYSTEM FOR MUNICIPAL ACTIVATED SLUDGE PLANT CONTROL
21.	ZAINAB MOH'D PEER BHOI (MS.)	CIVIL ENGG.	TREATABILITY STUDIES OF BLACK LIQUOR BY UASBR
22.	NAVEEN KWATRA	CIVIL ENGG.	EXPERIMENTAL STUDIES AND ANN MODELLING OF WIND LOADS ON LOW BUILDINGS
23.	MAHIPAL SINGH CHAUHAN	CIVIL ENGG.	STRENGTH CHARACTERISTICS OF COMPOSITE PAVEMENTS
24.	MANOJ KUMAR TRIVEDI	CIVIL ENGG.	NUMERICAL MODELLING OF UNSATURATED FLOW TOWARDS PLANT ROOT
25.	DEVESH TIWARI	CIVIL ENGG.	MODELLING OF INTEGRATED BUS ROUTES WITH RAPID TRANSIT SYSTEM
26.	BHAGU RAM CHAHAR	CIVIL ENGG.	OPTIMAL DESIGN OF CHANNEL SECTIONS CONSIDERING SEEPAGE AND EVAPORATION LOSSES
27.	NARAYAN CHANDRA GHOSH	CIVIL ENGG.	STUDY OF SOLUTE TRANSPORT IN A RIVER
28.	AWADHESH KUMAR	CIVIL ENGG.	POST-CRACKING BEHAVIOUR OF FERROCEMENT PRESTRESSED BOX GIRDER ELEMENTS
29.	VIJAY KUMAR	E&C ENGG.	ORDER REDUCTION OF DISCRETE SYSTEMS AND ITS APPLICATION FOR DESIGNING a PID CONTROLLER
30.	SIVANANDAN K.S.	E&C ENGG.	ON THE ENHANCEMENT OF TIMED PETERI NET THEORY AND ITS APPLICATIONS TO SOME ASPECTS OF COMPUTER SYSTEMS
31.	SHAILESH KUMAR AGARWAL	EARTHQUAKE ENGG	STRONG MOTION ARRAY DATA AS RESPONSE OF LAYERED ELASTIC MEDIUM

32.	AKHILESH KUMAR PANDEY	EARTHQUAKE ENGG.	NON-LINEAR BEHAVIOUR OF NUCLEAR CONTAINMENT SHELLS UNDER IMPACT AND BLAST LOADING
33.	ALOKE KUMAR DATTA	EARTHQUAKE ENGG.	SYSTEM IDENTIFICATION FOR USE IN EARTHQUAKE DAMAGE DETECTION OF R.C. FRAMED BUILDINGS
34.	RM. P. NACHIAPPAN	EARTHSCIENCES	SURFACE WATER AND GROUNDWATER INTERACTION STUDIES USING ISOTOPE TECHNIQUES
35.	SRIVASTAVA NAVEENCHANDRA NIRALELAL	EARTHSCIENCES	HILL SLOPE STABILITY STUDIES OF A PART OF TEHRI RESERVOIR, HIMALAYA, INDIA
36.	BRIJESH KUMAR	EARTHSCIENCES	CONTINENTAL MICROFAUNA FROM KOTA FORMATION (JURASSIC), PRANHITA-GODAVARI VALLEY, (A.P.), INDIA
37.	MOHAMMAD SHAMSHAD RAZA KHAN	EARTHSCIENCES	GEOCHEMICAL STUDIES FOR PETROLEUM FROM MULTILAYERED RESERVOIRS OF NARIMANAM FIELD, CAUVERY BASIN, INDIA
38.	PREMANAND MISHRA	EARTHSCIENCE	BALANCED CROSS SECTIONS, STRUCTURAL EVOLUTION AND SHORTENING, NW HIMALAYAN FOLD-THRUST BELT
39.	SANJAY KUMAR JAIN	EARTHSCIENCES	SNOWMELT RUNOFF MODELLING AND SEDIMENT STUDIES IN SATLUJ BASIN USING REMOTE SENSING AND GIS
40.	SATISH TUKARAM HAMDE	ELECTRICAL ENGG.	ANALYSIS AND INTERPRETATION OF ECG SIGNAL USING WAVELET TRANSFORM
41.	VINAY PANT	ELECTRICAL ENGG.	ANALYSIS OF MULTI-PHASE INDUCTION MACHINE
42.	SANJAY KUMAR JAIN	ELECTRICAL ENGG.	ISOLATED AND GRID MODE OPERATION OF INDUCTION GENERATORS
43.	SA'AD AHMED SALEH AL-KAZZAZ	ELECTRICAL ENGG.	INTELLIGENT DIAGNOSTIC AND MONITORING OF ELECTRICAL DRIVES
44.	LAXMAN MADHAVRAO WAGHMARE	ELECTRICAL ENGG. DEPTT.	DEVELOPMENT IN ANN BASED CONTROLLERS FOR ON-LINE PROCESS CONTROL APPLICATIONS
45.	SRIDHARA R.	HUMANITIES & SOCIAL SCIENCES	A STUDY OF FACTORS AFFECTING THE EDUCATIONAL STATUS OF THE HEARING HANDICAPPED
46.	VANADNA DAVE(MS.) (NEE VANDANA NAGAR)	HUMANITIES & SOCIAL SCIENCES	MANAGERIAL EFFECTIVENESS, CONFLICT RESOLUTION AND PERSONALITY TYPES IN ORGANIZATIONS
47.	MUKESH KUMAR SHARMA	HYDROLOGY	STUDIES OF HINDON RIVER SYSTEM WITH SPECIAL REFERENCE TO HEAVY METALS
48.	RAO SUHAIL AKHTAR	I.P.T.	STUDIES ON PULPING AND BLEACHING OF POPLAR DELTOIDES
49.	KAREEM JABR THAMER	MATHEMATICS	APPROXIMATION BY CERTAIN LINEAR POSITIVE OPERATORS
50.	MULUWORK KAHSAI BERHE	MECH. & IND. ENGG.	INVESTIGATIONS ON FLUID FLOW AND HEAT TRANSFER IN ROUGHENED ABSORBER SOLAR HEATERS
51.	SUNIL KUMAR SRIVASTAVA	MECH. & IND. ENGG.	INVESTIGATIONS OF THE EFFECT OF INERTIA FORCES ON ELASTOTHERMODYNAMIC DAMPING IN COMPOSITE MATERIALS
52.	NARENDER SINGH THAKUR	MECH. & IND. ENGG.	THERMOHYDRAULIC PERFORMANCE AND OPTIMIZATION OF PACKED BED SOLAR AIR HEATER
53.	VIJAY KUMAR	MECH. & IND. ENGG.	THERMOELASTOHYDROSTATIC ANALYSIS OF NON-RECESSED HYBRID JOURNAL BEARINGS
54.	RISHINDRA MOHAN SARVIYA	MECH. & IND. ENGG.	HEAT TRANSFER MECHANISM IN NUCLEATE POOL BOILING UNDER HIGH HEAT FLUX CONDITIONS
55.	JIWAN LAL BHAGORIA	MECH. & IND. ENGG.	FLUID FLOW AND HEAT TRANSFER STUDIES ON ARTIFICIAL ROUGHNESS IN SOLAR AIR HEATER DUCT
56.	RAJNISH GARG	MET. & MATERIALS ENGG.	DEVELOPMENT OF ALUMINIUM ALLOY BASED CARBON FIBRE REINFORCED METAL MATRIX COMPOSITES
57.	RAJNESH TYAGI	MET. & MATERIALS ENGG.	STUDIES ON TRIBOLOGICAL CHARACTERISTICS OF DUAL PHASE STEELS
58.	MANOJ KUMAR BANSAL	PHYSICS	A STUDY OF ATMOSPHERIC PARTICLES
59.	AMITA (MS.)	PHYSICS	SHEARS MECHANISM IN HIGH-K MAGNETIC DIPOLE ROTATIONAL BANDS
60.	NEERJA (MS.)	PHYSICS	SCATTERING OF σ_F AND x-ray FROM ATOMS/MOLECULES: SPIN POLARIZATION AND CORRELATION EFFECTS
61.	SUNITA GOYAL	CHEMISTRY	STUDIES ON ORGANOSILICON (IV) DERIVATIVES OF AMINO ACIDS
62.	ABDULLAH ISMAIL HASSAN KHALIL	E&C ENGG.	ADAPTIVE INTERFERENCE SUPPRESSION IN MULTIUSER DS-CDMA SYSTEMS