MINUTES

OF THE

JOINT MEETING OF THE

125TH INSTITUTE POSTGRADUATE PROGRAMME COMMITTEE

(IPPC)

AND

130TH INSTITUTE UNDERGRADUATE PROGRAMME COMMITTEE

(IUPC)

OF

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

Time: 10.00 AM
13 DECEMBER, 2022 (TUESDAY)
Venue: Senate Hall

The joint meeting of the one hundred and twenty-fifth Institute Postgraduate Programme Committee (IPPC) and one hundred and thirtieth Institute Undergraduate Programme Committee (IUPC) was held on 13th December, 2022 and the following members were present:

Sl. No.	Name and Designation	Department/School/Centre or Section	IUPC/IPPC
1.	Prof. Prof. K. V. Krishna, Dean of Academic Affairs	Academic Affairs Section	Chairman, IPPC & IUPC
2.	Prof. Bulu Pradhan, Associate Dean of Academic Affairs (Postgraduate)	Academic Affairs Section	Vice-Chairman, IPPC
3.	Prof. Hemant B. Kaushik Associate Dean of Academic Affairs (Online Programmes)	Academic Affairs Section	Vice-Chairman, IUPC and IPPC
4.	Prof. Ashok Kumar Dasmahapatra	Centre for Sustainable Polymers	Member, IPPC
5.	Dr. Urmi R. Salve, Associate Professor	Design	Member, IUPC
6.	Dr. Sharmistha Banerjee, Assistant Professor	Design	Member, IPPC
7.	Dr. A. Ravindranath, Assistant Professor	Electronics and Electrical Engineering	Member, IPPC
8.	Dr. Vipul Dutta, Assistant Professor	Humanities and Social Sciences	Member, IPPC
9.	Prof. Shakuntala Mahanta	Humanities and Social Sciences	Member, IPPC
10.	Dr. Abhay Pant, Assistant Professor	School of Business	Member, IPPC
11.	Prof. Vishal Trivedi	Biosciences and Bioengineering	Member, IPPC
12.	Prof. Padma K Padmanabhan	Physics	Department Representative, IUPC
13.	Dr ESN Raju P, Assistant Professor	School of Energy Science and Engineering	Department Representative, IUPC
14.	Dr. Siddhartha Singha, Assistant Professor,	School of Agro and Rural Technology	Member, IPPC
15.	Dr. Raghavendra Gupta, Associate Professor	Jyoti and Bhupat Mehta School of Health Sciences and Technology	Member, IPPC
16.	Dr. Suresh Sundaram, Associate Professor	Mehta Family School of Data Science and Artificial Intelligence	Department Representative, IUPC
17.	Dr. R. Anandalakshmi, Associate Professor	Chemical Engineering	Department Representative, IPPC/IUPC
18.	Dr. Sandip Das, Associate Professor	Centre for Disaster Management and Research	Member, IPPC
19.	Dr. Anil Kr. Mishra, Associate Professor	Civil Engineering	Member, IPPC
20.	Dr. John Jose, Associate Professor	Computer Science and Engineering	Department Representative, IUPC
21.	Dr. Amit Awekar, Associate Professor	Computer Science and Engineering	Department Representative, IPPC
22.	Dr. Rishikesh Dilip Kulkarni, Assistant Professor	Electronics and Electrical Engineering	Member, IUPC
23.	Prof. Sambit Mallick	Humanities and Social Sciences	Member, IUPC
24.	Dr. Subhajit Choudhury, Assistant Registrar & HoS	Academic Affairs Section	Non-Member Secretary, IPPC & IUPC

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI
MINUTES OF THE JOINT MEETING OF THE 125TH IPPC AND 130TH IUPC HELD ON 13TH DECEMBER, 2022

Content

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI
MINUTES OF THE JOINT MEETING OF THE 125TH IPPC AND 130TH IUPC HELD ON 13TH DECEMBER, 2022

Item 1:	**Confirmation of the Minutes of the Meeting of the 124th IPPC and 129th IUPC held on 10th November, 2022.**

The draft Minutes of the Joint Meeting of the 124th IPPC and 129th IUPC held on 10th November, 2022 has been circulated for confirmation (Separately provided).

R.125-IPPC/130-IUPC/1/2022: The IUPC/ IPPC **RESOLVED** that the Minutes of the Joint Meeting of the 124th IPPC and 129th IUPC held on 10th November, 2022 be **APPROVED.**

Item 2: **Action Taken Report on the decisions of the Meeting of the 124th IPPC and 129th IUPC held on 10th November, 2022.**

The IPPC/IUPC examined the Action Taken Report on the decisions of the Joint Meeting of the 124th IPPC and 129th IUPC held on 10th November, 2022 as placed at **Annexure 125-IPPC/130-IUPC/2 (Page No.7).**

Accordingly, the Action Taken Report was confirmed**.**

R.125-IPPC/130-IUPC/2/2022: The IPPC/IUPC **RESOLVED** that the Action Taken Report on the decisions of the Joint Meeting of 124th IPPC and 129th IUPC held on 10th November, 2022 be **APPROVED**.

tem 3: **Action Taken Report on the decisions of the Joint Meeting of the 123rd IPPC and 128th IUPC held on 28th September, 2022 and 14th October, 2022.**

The IPPC/IUPC examined the Action Taken Report on the decisions of the Joint Meeting of the123rd IPPC and 128th IUPC held on 28th September, 2022 and 14th October, 2022 as placed at **Annexure 125-IPPC/130-IUPC/3 (Page No. 8-10).**

Accordingly, the Action Taken Report was confirmed**.**

R.125-IPPC/130-IUPC/2/2022: The IPPC/IUPC **RESOLVED** that the Action Taken Report on the decisions of the Joint Meeting of 123rd IPPC and 128th IUPC held on 28th September, 2022 and 14th October, 2022 be **APPROVED**.

Items for Discussion and Approval

Item 4:	**To consider the results of July-Nov 2022 semester**

The detailed report regarding results of July-November 2022 semester is placed at **Annexure 125-IPPC/130-IUPC/4** (**Page N0. 21- 40**).

The IUPC/IPPC discussed the matter and observed the following:

- Grades of the following courses are yet to be received. The members were asked to follow up with the respective course instructors: *BT 209, BT 618, CE 693, CE 699, CH 211M, CL 698, DD 320M, DD 502, EM 598, IFST 003, MA 625, PH 203, PH 211 and PH 408.*

- The members pointed that some of the courses were not offered in the current semester. The details are to be submitted to Academic Section.

- It is further noted that, hard copies of grades for a total of 167 courses are not yet submitted.

- Some of the courses where FP grades are too high are:

  MA 543(25 out of 60), EE 692(14 out of 38), EE 424M (13 out of 46), MA 201(118 out of 701), ME 201M (5 out of 15).

- The courses in HT have high AS grades.

- *CH 614, PH 522, CL 310, etc have high AA grades.*

The IUPC/IPPC suggested the following:

- The Heads may review the statistics at Dept. level and provide the justifications wherever necessary to the Senate during the deliberation in the Senate.

R.125-IPPC/130-IUPC/4/2022: The IUPC/IPPC **RESOLVED** that the results of July- November, 2022 semester be **APPROVED**.

Item 5:	**To consider Swayam NPTEL-MOOC course proposed by the Dept. of Mathematics**

The IUPC found that the Department of Mathematics has recommended the following MOOC course for the Jan-May 2023 semester.

noc23-ma38, Introduction to Queueing Theory, 12 weeks, Prof. N.Selvaraju, IITG.

Students in BTech (Maths and Computing) 6th semester may be allowed to replace a department elective with the above MOOC course.

The IUPC considered the proposal and recommended to be placed to the Senate.

R.125-IPPC/130-IUPC/5/2022: The IUPC **RESOLVED** that the Swayam NPTEL-MOOC course proposed by the Dept. of Mathematics be **APPROVED** and be **RECOMMENDED** to place to the Senate.

Item 6: **To consider 2 new HSS MA Liberal Arts elective course proposals:**

    (i) HS 564 Psychoanalysis and the Social Bond (3-0-0-6)
    (ii) HS 565 Social Meta-Theory (3-0-0-6)

The IPPC found that the Department of HSS has submitted a proposal for introducing 2 new HSS MA Liberal Arts elective courses as follows:

    (i) HS 564 Psychoanalysis and the Social Bond (3-0-0-6)
    (ii) HS 565 Social Meta-Theory (3-0-0-6)

The IPPC examined the proposal as placed at **Annexure 125-IPPC/130-IUPC/6 (Page No. 11-14)** and considered for approval with minor modifications**.**

R.125-IPPC/130-IUPC/6/2022: The IPPC **RESOLVED** that two new HSS MA Liberal Arts elective courses: (i) HS 564 Psychoanalysis and the Social Bond (3-0-0-6) and (ii) HS 565 Social Meta-Theory (3-0-0-6), be **APPROVED.**

<p style="text-align:center;color:red">Any other matter with the permission of the Chair.</p>

Item 7: **To consider proposal of the Dept. of BSBE on change of course codes of elective courses for 4th year B.Tech/M.Tech/PhD students**

The IPPC/IUPC found that the Dept. of BSBE has proposed to change course codes of some of its courses which are floated for 4th year B.Tech/M.Tech/PhD students, as placed at **Annexure 125-IPPC/130-**

IUPC/7 (Page No. 15-17). The IPPC/IUPC further noted that with the proposed numbers, already courses are existing in the Department.

Accordingly, the IUPC/IPPC suggested the Department to submit the course revision proposal for their requirement.

R.125-IPPC/130-IUPC/7/2022: The IPPC/IUPC **RESOLVED** that the proposal of the Dept. of BSBE on change of codes be **NOT APPROVED** and suggested the Department to submit the course revision proposal.

Item 8: **To consider the revised proposal for M Tech in Biomedical Science and Engineering with Specialization in Regenerative Medicines, Stem Cells and Therapeutics.**

The IPPC found that in the joint meeting of 123rd IPPC and 128th IUPC held in two sessions on 28th September, 2022 and 14th October 2022, the IPPC discussed upon the revised proposal from the Jyoti and Bhupat Mehta School of Health Sciences and Technology to start a new Specialization on Regenerative Medicine, Stem Cells and Therapeutics of M.Tech in Biomedical Science and Engineering. The IPPC deliberated the matter at length and gave suggestions for improvement of the curriculum, particularly to align the curriculum as per the theme of the specialization. The IPPC asked the School to revise the proposal for further considerations by the IPPC, vide its resolution R.123-IPPC/128-IUPC/17/2022. Accordingly, the School submitted a revised proposal as placed at **Annexure 125-IPPC/130-IUPC/7 (Page No. 18-20).**

The IPPC examined the proposal and approved with minor modifications. The revised proposal shall be placed to the Senate for approval.

R.125-IPPC/130-IUPC/8/2022: The IPPC **RESOLVED** that the revised proposal for M Tech in Biomedical Science and Engineering with Specialization in Regenerative Medicines, Stem Cells and Therapeutics be **APPROVED** and be **RECOMMENDED** to place to the Senate**.**

Annexure 125-IPPC/130-IUPC/2

Sub.: Follow-up actions in respect of 124rd Meeting of the Institute Postgraduate Programme Committee (IPPC) and 129th Institute Undergraduate Programme Committee (IUPC)

The action taken/to be taken by the Academic Affairs Section on some of the decision of the 124th Meeting of The Institute Postgraduate Programme Committee (IPPC) and 129th Meeting of The Institute Undergraduate Programme Committee (IUPC) held on 10 November, 2022 as follows:

Resolution No	Resolutions	Status of Action Taken/ Action Needed to be taken
R.124-IPPC/129-IUPC/1/2022	The IUPC/ IPPC RESOLVED that the Minutes of the Joint Meeting of the 123rd IPPC and 128th IUPC held on 28th September, 2022 and 14th October, 2022 be APPROVED.	Not an item for Action Taken.
R.124-IPPC/129-IUPC/2/2022	The IUPC RESOLVED that the proposal for a new B.Tech programme in Agro and Rural Technology along with its curriculum be REVISED and RESUBMITTED, as per the suggestions given .	The matter was placed and discussed in the 164th Senate. The Senate RESOLVED that the proposal for a new BTech programme in Agro and Rural Technology **be RESUBMITTED**.
R.124-IPPC/129-IUPC/3A/2022	The IPPC RESOLVED that Course mapping proposal of Mr. Mantri Sandeep Naidu (Roll No. 160101041), a B.Tech student from the Department of CSE be APPROVED in principle.	It has been reported in the 164th Senate meeting.
R.124-IPPC/129-IUPC/3B/2022	The IPPC RESOLVED that Course mapping proposal of Mr. Sumedh Manwar (Roll No. 160101074), a B.Tech student from the Department of CSE be REVISED and RESUBMITTED.	The revised proposal is yet to be received.
R.124-IPPC/129-IUPC/3C/2022	The IUPC RESOLVED that Course mapping proposal of Mr. Uttam Kumar (Roll No. 170122048), B.Tech student from the Department of Chemistry be APPROVED.	It has been reported in the 164th Senate meeting.
R.124-IPPC/129-IUPC/4/2022	The IUPC RESOLVED that the proposal for enabling an option for semester-visit to an external organization for pursing project-cum-internship by undergraduate students be APPROVED and RECOMMENDED to be placed the revised proposal to the Senate.	The matter was placed and discussed in the 164th Senate. The Senate has approved the proposal.
R.124-IPPC/129-IUPC/5/2022	The IPPC RESOLVED that the joint PhD Programme agreement between Deakin University, Australia and IIT Guwahati be APPROVED and RECOMMENDED to be placed in the Senate	Will be placed in the BoG
R.124-IPPC/129-IUPC/6/2022	The IPPC RESOLVED that the syllabus for HT603 Advanced Immunology course from the School of Health Science and Technology be APPROVED.	It has been reported in the 164th Senate meeting.

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Annexure 125-IPPC/130-IUPC/3

Sub.: Follow-up actions in respect of the Joint meeting of 123rd IPPC and 128th IUPC held on 28th September, 2022 and 14th October, 2022

The action taken/to be taken by the Academic Affairs Section on some of the decision of the 123rd Institute Postgraduate Programme Committee (IPPC) AND 128th Institute Undergraduate Programmee Committee (IUPC) joint meeting HELD ON 28th September and 14th October, 2022 as follows:

Resolution No	Resolutions	Status of Action Taken/Action Needed to be taken
R.123-IPPC/128-IUPC/1/2022	The IPPC/IUPC RESOLVED that the Minutes of the Joint Meeting of the 122nd IPPC and 127th IUPC held on 5th August, 2022 be APPROVED.	Not an item for Action Taken.
R.123-IPPC/128-IUPC/2/2022	The IPPC/IUPC RESOLVED that the Action Taken Report on the decisions of the Joint Meeting of 122nd IPPC and 127th IUPC held on 5th August, 2022 be APPROVED.	Not an item for Action Taken.
R.123-IPPC/128-IUPC/3/2022	The IUPC RESOLVED that the proposal of Department of HSS to introduce one new Level 1 UG course, entitled The Novel and Magic Realism, two new courses (UG Level 2), entitled (a) Social Movements in India and Pandemics, and (b) Health and Society and to change three existing Level 2 UG courses, viz., HS 216, HS 220 and HS 250 to Level 1 be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/4/2022	The IUPC RESOLVED that the proposal from the Dept. of EEE for a new elective course on Modelling and Simulation of Stochastic Systems (Course No EE 336) be APPROVED.	It has been reported in the 164th Senate meeting.
Item:5 To consider the proposal on revised course plan for Mr. Mantri Sandeep Naidu (Roll No. 160101041), a B.Tech student from the Department of CSE	The IUPC deferred the matter.	It was placed in the 129th IUPC
Item:6 To consider the proposal on the course plan for Mr. Sumedh Manwar (Roll No. 160101074), a B.Tech student from the Department of CSE	The IUPC deferred the matter.	It was placed in the 129th IUPC
R.123-IPPC/128-IUPC/7/2022	The IPPC RESOLVED that the proposal from the Dept. of EEE for the aforementioned five new elective courses be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/8/2022	The IPPC RESOLVED that the proposal from the Dept. of Mechanical Engineering for a new elective course on Dynamics of Machining Processes be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/9/2022	The IPPC RESOLVED that the proposal from the Dept. of Civil Engineering for the aforementioned five new elective courses be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/10/2022	The IPPC RESOLVED that the proposal from the Dept. of Design to introduce two elective courses, viz, DD 558 and DD711, and the revision of DD 534 be APPROVED and the proposal of revision of DD 509 be NOT APPROVED.	It has been reported in the 164th Senate meeting.

R.123-IPPC/128-IUPC/11/2022	The IPPC RESOLVED that proposal from the Centre for Indian Knowledge Systems for a new elective course IK601 Elements of Indian Knowledge Systems be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/12/2022	The IPPC RESOLVED that the proposal from the Dept. of Mathematics for the aforementioned five new courses be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/13/2022	The IPPC RESOLVED that the proposal from the Dept. of HSS to introduce three (03) no.s of elective courses be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/14/2022	The IPPC RESOLVED that proposal from the Dept. of Physics for a new elective course PH538 Physics of Engineered Quantum Systems be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/15/2022	The IPPC RESOLVED that proposal from the Department of Chemical Engineering for revision the course, viz., CL 513 Characterization of Materials be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/16/2022	The IPPC RESOLVED that the proposal for Online M.Tech program in Robotics and Artificial Intelligence from the Centre for Intelligent Cyber Physical Systems be APPROVED and RECOMMENDED to place the revised proposal to the Senate. Further, the IPPC RESOLVED that the proposal for introducing three new elective courses RA601, RA602 and RA606 be APPROVED.	It has been placed and approved in the 164th Senate meeting. Further the Senate recommended to place it in the BoG. The courses were approved and reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/17/2022	The IPPC RESOLVED that the proposal from the Jyoti and Bhupat Mehta School of Health Sciences and Technology to start a new Specialization on Regenerative Medicine, Stem Cells and Therapeutics of M.Tech in Biomedical Science and Engineering be REVISED and RESUBMITTED. Further, the IPPC RESOLVED that the proposal for introducing the courses HT506, HT507, HT508, HT510 and HT511 be APPROVED.	The School of Health Science and Technology revised the syllabus for the elective course HT 603 Advanced Immunology and submitted which was discussed and approved in the **124th IPPC** and subsequently reported in the **164th Senate.**
R.123-IPPC/128-IUPC/18/2022	The IPPC RESOLVED that the list of MOOC courses from the Department of Chemical Engineering be APPROVED with minor modifications as suggested above and be RECOMMENDED to place the revised list to the Senate	The matter was placed in the 164th Senate.
R.123-IPPC/128-IUPC/19/2022	The IPPC RESOLVED that the proposal from the Department of Physics regarding the coursework for Ph.D students admitted with B.Tech qualification as stated above be APPROVED and RECOMMENDED to place the matter to the Senate.	The matter was placed in the 164th Senate.The Senate deliberated on the matter and resolved to consider the recommendations of the Department that the continuing two students be permitted to complete required course work in the upcoming semesters as a special case. Further, the Senate approved the waiver of the remaining credits for the student Dr. Joy Prakash Das (146121021) who had already completed his programme and received the degree.

R.123-IPPC/128-IUPC/20/2022	The IPPC RESOLVED that the proposal from the Centre for Disaster Management and Research regarding the course work of its Ph.D students be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/21/2022	The IPPC RESOLVED that the proposal from the Centre for Environment for introducing the course EV 603 be APPROVED and EV 601 and EV 602 be RECOMMENDED to place to the Senate.	It was placed in the 164th Senate. The Senate considered the proposal and opined that the proposal is acceptable subject to the following: • The courses can be offered to only PhD students and numbers of the courses should be upgraded to seven-level. • Accordingly, the courses are renumbered as EV 701 and EV 702. • There will not be any financial implication to the Institute in this regard.
R.123-IPPC/128-IUPC/22/2022	The IPPC RESOLVED that proposal from the School of Energy Science and Engineering for a new elective course on Advanced Energy Systems (EN 667) be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/23/2022	The IPPC RESOLVED that the proposal from the Mehta Family School of Data Science and Artificial Intelligence for introducing two new elective courses DA623 and DA673 be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/24/2022	The IUPC RESOLVED that the request from the Department of Chemical Engineering to remove an additional learning course (CL 398) from the grade transcript of two students be APPROVED.	It has been reported in the 164th Senate meeting.
R.123-IPPC/128-IUPC/25/2022	The IUPC RESOLVED that the proposal from the Department of Design for a new core course DD 304 Tangible Interface be NOT APPROVED.	Not Approved
R.123-IPPC/128-IUPC/26/2022	The IPPC RESOLVED that the request from the Department of Design for deferring the mid-semester examination of DD 203 be NOT APPROVED.	Not Approved
R.123-IPPC/128-IUPC/27/2022	The IPPC RESOLVED that the proposal from the Department of EEE to update the course number of "Stochastic Analysis of Wireless Networks" to EE791 be APPROVED.	It has been reported in the 164th Senate meeting. The same is updated in the academic portal.

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<u>Annexure 125-IPPC/130-IUPC/6</u>

Indian Institute of Technology Guwahati
Proposal for a New Course / Revision of a Course

Course Number & Title: HS 564 <mark>Psychoanalysis and the Social Bond</mark>	
L-T-P-C: 3-0-0-6	
Type of Letter Grading (Regular Letter Grades / PP or NP Letter Grades): Regular Letter Grades	
Kind of Proposal (New Course / Revision of Existing Course): New Course	
Offered as (Compulsory / Elective): Elective	
Offered to: MA Liberal Arts	
Offered in (Odd/ Even / Any): Any	
Offered by (Name of Department/ Center): HSS	
Pre-Requisite: None	

Preamble / Objectives (Optional):

This course shall introduce students to the classical and contemporary psychoanalytic orientations of Sigmund Freud, Jacques Lacan, Slavoj Zizek, and Jacques-Alain Miller. It shall highlight the discursive position psychoanalysis occupies in relation to the discontents of Western civilization. Moreover, it shall foreground psychoanalytic topics in linguistics, topology, and enjoyment/libido theory. Three key research questions shall be pursued: first, what are some of the singular ways that speaking-beings and their groups relate to one another?; second, what is the nature of the recent shift that has occurred within the social structure of Western civilization?, and; third, to what extent do non-Western social structures challenge or deepen prevailing psychoanalytic frameworks?

Course Content/ Syllabus *(as a single paragraph if it is not containing more than one subject. Sub-topics/ Sections may be separated by commas(,). Topics may be separated by Semi-Colons(;). Chapters may be separated by Full-Stop(.). While starting with broad heading, it may be indicated with Colon symbol before the topics. For example: Multi-variable Calculus: Limits of functions, Continuity, ……)*

Sigmund Freud: Civilization and Its Discontents, symptoms, inhibitions, anxiety, death and life drives, reality and pleasure principles, Group Psychology and the Analysis of the Ego, The Interpretation of Dreams; Jacques Lacan: the unconscious-structured-like-a-language, the logic of the signifier, *lalangue,* name-of-the-father, schema L and R, psychotic foreclosure, perverse disavowal, neurotic repression, *sinthome,* the One and Other, jouissance, the four discourses; Autism; Slavoj Zizek: capitalist discourse, the saint, perversion, enjoyment as a political factor, ideology; Jacques-Alain Miller: psychoanalysis in the city, psychoanalysis in close touch with the social, the one-all-alone.

Books (In case UG compulsory courses, please give it as "Text books" and "Reference books". Otherwise give it as "References".

References: (Format: Authors, *Book Title in Italics font,* Volume/Series, Edition Number, Publisher, Year.)

1.	Sigmund Freud. *Civilization and Its Discontents,* James Strachey Eds. 1930. Retrieved on November 22d, 2022 from <https://www.stephenhicks.org/wp-content/uploads/2015/10/FreudS-CIVILIZATION-AND-ITS-DISCONTENTS-text-final.pdf>
2.	Sigmund Freud. *International Psycho-Analytic Library,* No. 4, C. Hubbrick, Trans., Ernest Jones, Ed. 1920.

3.	Jacques Lacan. *… Or Worse: The Seminar of Jacques Lacan, Book XIX,* Cormac Gallagher, Trans., Ed. 1972. As Retrieved on November 22nd, 2022 from <http://www.lacaninireland.com/web/wp-content/uploads/2010/06/Book-19-Ou-pire-Or-worse.pdf>
4	Jacques Lacan. *The Other Side of Psychoanalysis: The Seminar of Jacques Lacan, Book XVII* , Cormac Gallagher, Trans., Ed. 1970. As Retrieved on November 22nd, 2022 from <https://www.valas.fr/IMG/pdf/THE-SEMINAR-OF-JACQUES-LACAN-XVII_l_envers_de_la_P.pdf>
5	Jacques Lacan. *Television: A Challenge to the Psychoanalytic Establishment,* Joan Copjec, Ed., Jeffrey Mehlmen, Trans. 1990. pp. 3-45. New York, NY: W. W. Norton & Company.
6	Slavoj Zizek. *The International Handbook of Virtual Learning Environments,* J. Weiss, J. Hunsinger, & P Trifonas, Eds. 2006. Springer. pp. 1549-69.
7	Jacques-Alain Miller. *The Symptom. 2007.* As Retrieved on November 22nd, 2022 from <https://www.lacan.com/jamsocial.html>
Texts: (Format: Authors, *Book Title in Italics font,* Volume/Series, Edition Number, Publisher, Year.)	

| Detailed Course Content (Optional) | | |
It will not be included in the Courses of Study Booklet		
Sl. No.	Broad Title / Topics	Number of Lectures

In case of revision of existing course, Please provide below the details of existing course.
EXISTING COURSE

Course Number, Title, L-T-P-C:
Pre-Requisite (if any)
Contents:
References:

Indian Institute of Technology Guwahati
Proposal for a New Course / Revision of a Course

Course Number & Title: HS 565 Social Meta-Theory	
L-T-P-C: 3-0-0-6	
Type of Letter Grading (Regular Letter Grades / PP or NP Letter Grades): Regular Letter Grades	
Kind of Proposal (New Course / Revision of Existing Course): New Course	
Offered as (Compulsory / Elective): Elective	
Offered to: MA Liberal Arts	
Offered in (Odd/ Even / Any): Any	
Offered by (Name of Department/ Center): HSS	
Pre-Requisite: None	

Preamble / Objectives (Optional):

This course pursues a collective critical rereading of the classical and contemporary tradition of sociological theory. On the one hand, the course shall allow students to scrutinize the theoretical foundations of the discipline of sociology, particularly its American orientation, for offering a false promise with respect to its multiple paradigm orientation. It shall open up a space for students to explore the presuppositions of various schools of sociology, such as positivism, conflict theory, symbolic interactionism, structuralism-functionalism, and systems theory. Students will pursue the following research question: has contemporary sociological theory advanced beyond prior discrete and insular worldviews? On the other hand, the course will develop an argument that American pragmatism (evident in the work of George Herbert Mead, Charles Horton Cooley, and others) constitutes a hegemonic orientation.

Course Content/ Syllabus *(as a single paragraph if it is not containing more than one subject. Sub-topics/ Sections may be separated by commas(,). Topics may be separated by Semi-Colons(;). Chapters may be separated by Full-Stop(.). While starting with broad heading, it may be indicated with Colon symbol before the topics. For example: Multi-variable Calculus: Limits of functions, Continuity, ……)*

George Ritzer: sociological meta-theory, multiple paradigm science, McDonaldization, *prosumer* capitalism, foundations of sociological meta-theory, agency-structure-structuration, habitus, micro-meso-macro sociology, the schools approach to sociological theory; schools as 'worldviews'; Max Weber: limitations of the action structures and spiritual arguments; Georg Simmel: extensions of social geometry into social topology, beyond the dyad-triad framework, from stimulus shield to libido-jouissance; Emile Durkheim: the elementary problems of structure and collective effervescence; ibn Khaldun: asibiyahh and cyclical model of history; American pragmatism: Charles Horton Cooley and George Herbert Mead as case studies; Niklas Luhmann: social psychosis of communicative systems

Books (In case UG compulsory courses, please give it as "Text books" and "Reference books". Otherwise give it as "References".

References: (Format: Authors, *Book Title in Italics font,* Volume/Series, Edition Number, Publisher, Year.)

1.	Rousselle, Duane. *Jacques Lacan and American Sociology.* New York, NY: Palgrave MacMillan. 2019.
2.	Ritzer, George. *Sociological Theory* (Ninth Edition). New York, NY: McGraw-Hill. 2014.
3.	Ritzer, George. *The American Sociologist,* Vol. 10., No. 3: 156-67. 1975.
4	Simmel, Georg. *The Sociology of Georg Simmel* (Kurt Wolff, Ed., Trans.). Illinois: The Free Press. 1965.
5	Weber, Max. *The Religion of India* (unknown translator). Gyan Publishing House. 2017.

6	Ibn Khaldun. *The Muqaddimah: An Introduction to History* (Franz Rosenthal, Trans., N. J. Dawood, Ed.). NJ: Princeton University Press. 2015.
Texts: (Format: Authors, *Book Title in Italics font,* Volume/Series, Edition Number, Publisher, Year.)	

Detailed Course Content (Optional) It will not be included in the Courses of Study Booklet		
Sl. No.	Broad Title / Topics	Number of Lectures

In case of revision of existing course, Please provide below the details of existing course. **EXISTING COURSE**
Course Number, Title, L-T-P-C:
Pre-Requisite (if any)
Contents:
References:

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Annexure 125-IPPC/130-IUPC/7

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Annexure I: List of elective courses upgraded to 6 Level

Courses to be revised		Courses to be dropped		
Revised Course Number	Revised Course Name	Current Course Number	Current Course Name	Reason for drop
BT 604	Enzymology	BT 412	Enzymology	Upgraded to 6 Level
BT 607	Plant Biotechnology	BT 404	Plant Biotechnology	Upgraded to 6 Level
BT 612	Systems Biology	BT 418	Systems Biology	Upgraded to 6 Level
BT 615	Cell Signaling and Development	BT 409	Cell Signaling & Development	Upgraded to 6 Level
BT 629	Metagenomics	BT 411	Metagenomics	Upgraded to 6 Level
BT 633	Human Biology and Diseases	BT 403	Human Biology and Diseases	Upgraded to 6 Level
BT 616	General Virology	BT 407	General Virology	Upgraded to 6 Level
BT 617	Proteomics: Methods & Applications	BT 410	Proteomics: Methods & Applications	Upgraded to 6 Level
BT 636	Tissue Engineering & Regenerative medicine	BT 415	Tissue Engineering & Regenerative medicine	Upgraded to 6 Level

Annexure II: B. Tech Biotechnology Course structure
(July 2018 onwards)

Course No	Semester-I Course Name	L	T	P	C	Course No	Semester-II Course Name	L	T	P	C
CH 101	Chemistry	3	1	0	8	BT101	Introductory Biology	3	0	0	6
CH 110	Chemistry Laboratory	0	0	3	3	CS101	Introduction to Computing	3	0	0	6
EE 101	Basic Electronics	3	1	0	8	CS 110	Computing Laboratory	0	0	3	3
MA 101	Mathematics - 1	3	1	0	8	EE102	Basic Electronics Laboratory	0	0	3	3
CE101	Engineering Drawing	2	0	3	7	MA102	Mathematics - 2	3	1	0	8
PH 101	Physics - 1	2	1	0	6	ME101	Engineering Mechanics	3	1	0	8
PH110 / ME110	Physics Laboratory / Workshop-I	0	0	3	3	PH102	Physics - II	2	1	0	6
						ME110 / PH110	Workshop - I / Physics Laboratory	0	0	3	3
		13	**4**	**9**	**43**			**14**	**3**	**9**	**43**
HS101	English Communication*	2	0	2	0	SA 1xx	Students' Activity Course - I	**0**	**0**	**2**	**0**
Course No	Semester-III Course Name	L	T	P	C	Course No	Semester-IV Course Name	L	T	P	C
MA 201	Mathematics - III	3	1	0	8	BT 206	Microbiology	3	0	0	6
BT 201	Biochemical Process Calculations	2	1	0	6	BT 207	Genetic Engineering	3	0	0	6
BT 202	Bio-thermodynamics	2	1	0	6	BT 208	Transport Phenomenon in Bioprocesses	3	1	0	8
BT 203	Biochemistry	3	0	0	6	BT 209	Bio-reaction Engineering	2	1	0	6
BT 204	Genetics	3	0	0	6	BT 211	Basic Biotechnology Laboratory	0	0	6	6
BT 205	Cell and Molecular Biology	3	0	0	6	HS 1xx	HSS Elective-I Level- I	3	0	0	6
		16	**3**	**0**	**38**			**14**	**2**	**6**	**38**
SA 2xx	Students' Activity Course - II	0	0	2	0	SA 2xx	Students' Activity Course - III	0	0	2	0
	Minor Course - I	3	0	0	6		Minor Course - II	3	0	0	6
HS200	Sustainable Development Goals ***	2	0	0	0						
Course No	Semester-V Course Name	L	T	P	C	Course No	Semester-VI Course Name	L	T	P	C
BT 301	Biophysics	2	1	0	6	BT 305	Computational Biology	2	0	2	6
BT 302	Bioinformatics	2	0	2	6	BT 306	Bio-separation Engineering	3	0	2	8
BT 303	Biochemical Engineering	2	1	0	6	BT 307	Biological Data Analysis	2	0	2	6
BT 304	Immunology	3	0	0	6	BT 308	Bioengineering	3	0	0	6
BT 311	Biochemical Engineering Laboratory	0	0	6	6	OExxx	Open Elective	3	0	0	6
BT 312	Analytical Biotechnology Laboratory	0	0	6	6	BT xxx	Departmental Elective-I	3	0	0	6

Course No		L	T	P	C	Course No		L	T	P	C
HS 1xx	HSS Elective-II Level-I	3	0	0	6						
		12	2	14	42			16	0	6	38
SA 3xx	Students' Activity Course - IV	0	0	2	0		Minor Course - IV	3	0	0	6
	Minor Course - III	3	0	0	6						
Course No	**Semester-VII**	L	T	P	C	Course No	**Semester-VIII**	L	T	P	C
	Course Name						Course Name				
BT xxx	Departmental Elective-II	3	0	0	6	BT xxx	Departmental Elective-IV	3	0	0	6
BT xxx	Departmental Elective-III	3	0	0	6	BT xxx	Departmental Elective-V	3	0	0	6
OE xxx	Open Elective	3	0	0	6	BT xxx	Departmental Elective-VI	3	0	0	6
OE xxx	Open Elective	3	0	0	6	OE xxx	Open Elective	3	0	0	6
BT 401	BTech Project-I	0	0	6	6	BT 402	BTech Project-II	0	0	6	6
HS 2xx	HSS Elective - I Level - II	3	0	0	6	HS 2xx	HSS Elective - II Level - II	3	0	0	6
		15	0	6	36			15	0	6	36
	Minor Course - V	3	0	0	6						

* Only for students lagging language proficiency. It will be graded as PP or NP.

*** Type of Letter Grading: PP/NP and Compulsory course for all B.Tech 3rd Semester Students

 Course Number for Open Elective is OExxx.
Total Mandatory Credits: 314

<u>**Annexure 125-IPPC/130-IUPC/8**</u>

<u>**Proposal for M Tech in Biomedical Science and Engineering with Specialisation in Regenerative Medicines, Stem Cells and Therapeutics**</u>

Preamble:

The National Education Policy – NEP 2020 has emphasized the necessity of academic programs at the various levels of education, which inculcates multidisciplinary trainings to the students/scholars with a significant stress on the hands-on training. The major objective of such academic curricula includes not only to train and upskill the bright minds of the country with real-life laboratory scale experience but also to improve their employability by connecting their education to the translational activities. In this direction, medical science and technology is one such multidisciplinary field where the scientific, technological, and design interventions from diverse disciplines of engineering, pure science, social science, and design have been significant. For example, the specialties like diagnostics, systems biology, bioinformatics, regenerative medicine, data science and analytics, tissue engineering, stem cell research, public health, and prosthesis, among many others, have found their major footprint in the technological realm in the recent years. In conjunction, with the recent translational initiatives from the Government of India for import replacements such as Atmanirbhar Bharat, Make-in-India and Startup India, it has become imperative to develop human resources ready to be employed in the medical industries, who are capable of producing the next generation of technologies through disruptive inventions and innovations in the multidisciplinary scientific and technological domains.

The proposed Master of Technology curriculum in Biomedical Science and Engineering at the Jyoti and Bhupat Mehta School of Health Sciences and Technology is designed to provide the incoming students a foundation of knowledge related to the modern biomedical technologies within the broader perspective of the health science and technology. The course is designed to offer introductory as well as advanced study modules such as cell biology, immunology, physiology, quality management, biomaterials, biosensors, regenerative medicine, stem cells and therapeutics. The curriculum also offers the courses on research methodology, regulatory aspects of technologies, intellectual property rights, publication and patent writing among others. In the beginning of the curriculum, the students arriving from the diverse disciplines are to be trained with a set of compulsory core courses drawn from different disciplines in the first semester. After the build-up of the foundation through this activity, in the second semester, the program offers to specialize through the electives and undergo hands-on training through the laboratory courses. In the third and the fourth semesters, the students would take up a research project along with exploring and specializing their knowledge base by taking one elective of their choice from any department in each semester.

The proposed curriculum **M Tech in Biomedical Science and Engineering with Specialisation in Regenerative Medicines, Stem Cells and Therapeutics,** is to be started from July 2023.

Eligibility Criteria:

For the regular category:

- Bachelor of Engineering/Technology degree in Electronics Engineering/ Electrical Engineering/ Mechanical Engineering/ Biotechnology/ Biosciences and Bioengineering/ Biomedical engineering/ Chemical engineering/ Chemical Science and Technology. Additionally, the candidate should have studied Mathematics as a subject at the Bachelors' level. OR

    Bachelor of Pharmacy Degree. Additionally, the candidate should have studied Mathematics as a subject at the Bachelors' level. OR

    Master of Science Degree in Physics/Chemistry/ Life Sciences. Additionally, the candidate should have studied Mathematics as a subject at the Bachelors' level.

- Minimum CPI of 6.0 in a 10-point scale or a minimum of 60% of total/aggregate marks in the Qualifying Degree. The minimum marks requirement is relaxed by lowering 0.5 in CPI or 5% in marks for SC/ST/PwD candidates.

For Ministry of Education Fellowship (regular and full time):

- The candidate should have valid GATE score in the relevant discipline.

For all categories other than regular (part-time/project staff/sponsored etc.):

- The candidate would also need to appear in the interview.

Number of Seats: 20 (Total). Up to 10% of total seats can be offered to non-regular candidates (part-time/project staff/sponsored candidates).

M Tech in Biomedical Science and Engineering (Specialisation: Regenerative Medicines, Stem Cells and Therapeutics)

To be offered from July 2023

Semester I						Semester II					
Course	Course Name	L	T	P	C	Course	Course Name	L	T	P	C
HT501	Introduction to Cellular Processes (3-0-0-6 units)	3	0	0	6	HT506	Biotechniques and Bioinstrumentation Laboratory	0	0	3	3
HT502	Basic Physiology for Clinical Immersion	3	0	0	6	HT508	Product Design and Prototyping Laboratory	0	0	3	3
HT503	Introduction to Biomedical Electronics and Instrumentation	2	1	0	6	HT509	Regenerative Medicine and Stem Cells Laboratory	0	0	3	3
HT504	Basics of Mathematical Modelling, Simulations, and Software	2	1	0	6	HTxxx	Tissue Engineering and Regenerative Medicines	3	0	0	6
HT505	Research Methodology, Ethics, IPR, Entrepreneurship and Biosafety	2	1	0	6	HTxxx	Stem Cells and Therapeutics	3	0	0	6
						HTxxx	Elective from Pool				6
Total Credits					**30**	**Total Credits**					**27**
Semester III						Semester IV					
	Elective	3	0	0	**6**		Elective	3	0	0	**6**
HT 598	Project – I	0	0	18	**18**	HT 599	Project – II	0	0	18	**18**
	Total Credits				**24**		Total Credits				**24**
	Overall Credits:										**105**

Pool of Electives:
- HT xxx | Advanced Cell Biology (3-0-0-**6**)
- HT xxx | Advanced Immunology (3-0-0-**6**)
- HT xxx | Cellular Systems Engineering (3-0-0-**6**)
- HT xxx | Disease Models & Cell Therapeutics (3-0-0-**6**)
- HT xxx | Nano-Biomedicine & Drug Delivery (3-0-0-**6**)

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Results: July-Nov 2022 semester

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
BM 501H	Microeconomics	17	0	1	1	4	2	5	0	3	1	0	0	0	0	0	0
BM 502H	Financial Systems	18	0	3	5	6	3	0	0	0	0	0	1	0	0	0	0
BM 503H	Marketing Management	17	0	3	4	6	3	0	0	0	0	0	1	0	0	0	0
BM 504H	Business Statistics and Data Analysis for Management	19	0	3	3	6	3	2	1	0	0	0	0	1	0	0	0
BM 505H	Organizational Behaviour	17	0	3	4	2	2	4	1	0	0	0	0	1	0	0	0
BM 506H	Macroeconomics for Managers	17	0	4	6	6	1	0	0	0	0	0	0	0	0	0	0
BM 507H	Managerial Accounting	17	0	3	6	5	3	0	0	0	0	0	0	0	0	0	0
BM 508H	Business Research Methods	18	0	3	5	7	3	0	0	0	0	0	0	0	0	0	0
BM 509H	Human Resource Management	17	0	4	4	6	3	0	0	0	0	0	0	0	0	0	0
BM 510H	Management Information System	17	0	3	6	5	2	1	0	0	0	0	0	0	0	0	0
BT 201	Biochemical Process Calculations	73	0	4	6	16	20	9	9	5	0	0	4	0	0	0	0
BT 201M	Essentials of Biochemistry	9	0	1	2	2	1	0	0	0	3	0	0	0	0	0	0
BT 202	Bio-thermodynamics	73	2	10	21	18	9	11	2	0	0	0	0	0	0	0	0
BT 203	Biochemistry	73	0	2	2	8	13	17	17	10	0	0	4	0	0	0	0
BT 204	Genetics	73	0	7	21	13	10	7	5	6	0	0	4	0	0	0	0
BT 205	Cell and Molecular Biology	73	0	3	11	6	10	12	22	8	0	0	1	0	0	0	0
BT 301	Biophysics	67	0	9	14	14	14	12	1	1	0	0	1	0	1	0	0
BT 301M	Cellular Biotechnology	5	0	1	0	1	1	0	0	0	0	0	0	0	0	2	0
BT 302	Bioinformatics	66	0	2	8	10	14	21	9	2	0	0	0	0	0	0	0
BT 303	Biochemical Engineering	62	0	2	7	8	11	9	8	9	0	0	7	1	0	0	0
BT 304	Immunology	63	1	2	11	10	14	14	9	1	1	0	0	0	0	0	0
BT 311	Biochemical Engineering Lab	62	0	2	23	21	11	2	2	0	0	0	0	1	0	0	0
BT 312	Analytical Biotechnology Lab	62	0	17	29	10	4	2	0	0	0	0	0	0	0	0	0
BT 401	B.Tech Project I	62	1	19	20	8	6	2	1	3	0	0	0	2	0	0	0
BT 501	Biotechniques	73	0	5	9	21	22	7	4	3	0	0	2	0	0	0	0
BT 503	Advanced Genetic Engineering	59	0	3	13	14	12	8	4	3	2	0	0	0	0	0	0
BT 510	Analytical Biotechnology Lab	42	0	14	21	2	3	0	0	0	2	0	0	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
BT 521	Advanced Bioreactor Engineering	11	0	1	5	3	1	0	0	0	0	0	0	0	0	1	0
BT 530	Experimental techniques in Bioengineering	10	0	4	6	0	0	0	0	0	0	0	0	0	0	0	0
BT 600	M.Tech Seminar	47	1	8	15	7	6	4	5	0	0	0	0	1	0	0	0
BT 609	Bioprocess Engineering	45	1	12	1	4	6	6	9	6	0	0	0	0	0	0	0
BT 612	Systems Biology	13	0	3	2	1	3	0	1	3	0	0	0	0	0	0	0
BT 617	Concepts and Methods in Proteomics	46	0	4	6	15	11	5	0	0	3	0	2	0	0	0	0
BT 618	Biomaterials	58	3	24	14	8	4	1	2	0	0	0	0	0	0	2	0
BT 620	Biosensors	77	0	16	6	11	5	19	20	0	0	0	0	0	0	0	0
BT 623	Research Methodology	67	0	5	24	24	4	4	3	1	2	0	0	0	0	0	0
BT 637	Genome Editing and Engineering	45	0	2	6	10	6	4	5	10	0	0	2	0	0	0	0
BT 645	Introduction to IPR and Ethics	49	0	4	11	6	8	4	5	1	0	0	0	0	0	10	0
BT 698	M. Tech Project I (MTP I)	47	1	24	13	7	1	0	0	0	1	0	0	0	0	0	0
CE 202	Solid Mechanics	109	0	13	39	30	16	8	2	1	0	0	0	0	0	0	0
CE 203	Fluid Mechanics	107	3	14	28	38	12	10	1	0	0	0	1	0	0	0	0
CE 207	Engineering Geology	107	1	18	22	19	18	12	8	7	0	0	2	0	0	0	0
CE 208	Engineering Geology Lab	106	6	44	47	9	0	0	0	0	0	0	0	0	0	0	0
CE 211	Civil Engineering Materials	107	0	7	14	18	27	21	18	2	0	0	0	0	0	0	0
CE 212	Civil Engineering Materials Laboratory	107	0	23	41	30	5	7	1	0	0	0	0	0	0	0	0
CE 214	Fluid Mechanics Lab	107	0	49	47	10	0	0	0	0	0	0	1	0	0	0	0
CE 302	Structural Analysis II	105	4	8	18	26	37	9	3	0	0	0	0	0	0	0	0
CE 303	Geotechnical Engg. II	103	1	4	16	9	18	10	12	33	0	0	0	0	0	0	0
CE 304	Transportation Engg. I	102	0	10	28	37	19	6	0	2	0	0	0	0	0	0	0
CE 305	Reinforced Concrete Design	102	0	3	4	10	17	30	17	15	0	0	6	0	0	0	0
CE 313	Geotechnical Engineering II Lab	102	2	19	42	19	14	5	0	0	1	0	0	0	0	0	0
CE 314	Transportation Engineering I Lab	102	1	27	48	12	5	7	1	1	0	0	0	0	0	0	0
CE 316	Environmental Engineering II	102	0	1	6	9	14	20	27	13	0	0	12	0	0	0	0
CE 402	Design Project	85	0	0	0	6	19	25	32	3	0	0	0	0	0	0	0
CE 411	Dynamic of structure	3	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0
CE 415	Prestressed Concrete and Industrial Structures	17	0	5	5	7	0	0	0	0	0	0	0	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
CE 416	Bridge Engineering	10	0	3	4	1	0	1	1	0	0	0	0	0	0	0	0
CE 445	Solid Waste Engineeing	72	1	0	0	7	10	21	16	17	0	0	0	0	0	0	0
CE 498	Project	86	1	28	29	19	6	1	0	2	0	0	0	0	0	0	0
CE 499	BTP Phase II	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
CE 501	Continuum Mechanics	33	0	8	5	10	5	4	1	0	0	0	0	0	0	0	0
CE 502	Finite Element Methods	37	0	9	5	7	5	7	2	2	0	0	0	0	0	0	0
CE 503	Structural Dynamics	35	0	7	7	12	5	3	1	0	0	0	0	0	0	0	0
CE 512	Structural Engineering Laboratory	26	0	1	11	8	5	1	0	0	0	0	0	0	0	0	0
CE 521	Process Chemistry for Water and Wastewater Treatment	22	0	0	0	1	3	9	4	4	0	0	1	0	0	0	0
CE 522	Physico Chemical Processes in Environmental Engineering	27	0	2	3	10	6	3	1	1	0	0	1	0	0	0	0
CE 523	Air and Noise Pollution	22	0	0	2	2	5	7	1	4	0	0	1	0	0	0	0
CE 527	Design of Environmental Engineering Systems	18	0	0	0	0	10	8	0	0	0	0	0	0	0	0	0
CE 531	Advanced Soil Mechanics	26	0	4	7	4	5	4	2	0	0	0	0	0	0	0	0
CE 532	Dynamics of Soil and Foundations	26	1	2	9	8	4	1	0	0	1	0	0	0	0	0	0
CE 541	Infrastructure Planning	10	0	1	1	3	4	0	0	0	0	0	1	0	0	0	0
CE 542	Project Management in Construction	14	0	2	6	2	3	0	0	0	1	0	0	0	0	0	0
CE 543	Infrastructure Projects - Construction Methods and Equipment Management	15	1	3	3	4	2	1	0	0	1	0	0	0	0	0	0
CE 549	Project and Thesis Phase-I	21	1	6	8	6	0	0	0	0	0	0	0	0	0	0	0
CE 551	Surface Water Hydrology	25	0	2	5	6	5	3	2	0	0	0	1	0	0	1	0
CE 553	Advanced Hydraulic Engineering	23	1	4	2	5	4	2	3	1	0	0	1	0	0	0	0
CE 554	Advanced Fluid Mechanics	23	0	0	1	4	5	5	3	2	0	0	3	0	0	0	0
CE 564	Stochastic Hydrology	38	0	7	13	12	3	3	0	0	0	0	0	0	0	0	0
CE 567	Sediment Dynamics in Fluvial Systems	13	0	4	6	2	0	0	0	0	0	0	1	0	0	0	0
CE 581	Urban Transportation Systems Planning	20	1	3	3	3	7	2	1	0	0	0	0	0	0	0	0
CE 582	Pavement Materials	23	2	5	8	5	2	1	0	0	0	0	0	0	0	0	0
CE 587	Expansive Soil	17	1	2	4	3	5	0	2	0	0	0	0	0	0	0	0
CE 591	Earth System Dynamics	14	0	6	3	2	3	0	0	0	0	0	0	0	0	0	0
CE 592	Exploration Geoscience	13	0	6	5	1	1	0	0	0	0	0	0	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
CE 593	Advanced Remote Sensing	23	0	3	3	3	6	4	3	0	0	0	0	0	0	1	0
CE 598	MTech Project- Phase I	12	0	7	2	1	2	0	0	0	0	0	0	0	0	0	0
CE 601	Numerical Methods	51	1	7	6	9	12	6	6	3	0	0	1	0	0	0	0
CE 602	Optimization Methods	99	0	6	10	27	24	12	11	6	1	0	1	0	0	1	0
CE 644	Elastic Analysis in Geotechnical Engineering	52	1	6	12	16	12	3	2	0	0	0	0	0	0	0	0
CE 650	Geotechnical Practice for Waste Disposal	10	0	3	3	2	2	0	0	0	0	0	0	0	0	0	0
CE 651	Road Safety Engineering	22	0	4	10	6	2	0	0	0	0	0	0	0	0	0	0
CE 652	Precision Remote Sensing	11	0	1	1	3	5	1	0	0	0	0	0	0	0	0	0
CE 669	Advanced Mathematics for Engineers	41	0	5	7	15	14	0	0	0	0	0	0	0	0	0	0
CE 690	Project and Thesis Phase-I	18	0	6	6	1	0	0	0	2	0	0	0	3	0	0	0
CE 691	M Tech Project II	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
CE 692	Project & Thesis PhaseI	17	0	12	2	2	0	0	0	0	0	0	0	1	0	0	0
CE 693	Project and Thesis Phase II	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
CE 694	MTech Project-I	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
CE 696	Project and ThesisPhase - I	17	0	10	4	3	0	0	0	0	0	0	0	0	0	0	0
CE 698	MTech Project-I	20	0	5	6	2	2	0	0	0	0	0	0	5	0	0	0
CE 699	Project and Thesis Phase II	4	0	0	1	2	0	0	0	0	0	0	0	1	0	0	0
CH 212	Inorganic Chemistry	55	0	3	9	8	8	15	12	0	0	0	0	0	0	0	0
CH 221	Organic Chemistry	55	0	3	7	17	19	9	0	0	0	0	0	0	0	0	0
CH 231	Introduction to Quantum Chemistry	55	0	7	10	11	9	8	3	7	0	0	0	0	0	0	0
CH 301	Environmental Chemistry	56	0	5	23	22	6	0	0	0	0	0	0	0	0	0	0
CH 302	Technical Report Presentation	55	0	14	34	7	0	0	0	0	0	0	0	0	0	0	0
CH 314	Chemical Technology Lab II	55	0	26	23	5	1	0	0	0	0	0	0	0	0	0	0
CH 316	Frontiers of Coordination Chemistry	56	0	16	10	11	11	3	5	0	0	0	0	0	0	0	0
CH 331	Chemical Kinetics and Electrochemistry	55	0	1	10	6	20	12	4	2	0	0	0	0	0	0	0
CH 401	Modern Chemical Technology	74	0	2	9	38	18	7	0	0	0	0	0	0	0	0	0
CH 410	Chemistry of p- and d-Block Elements	59	0	6	12	24	10	5	2	0	0	0	0	0	0	0	0
CH 417	Organometallic Chemistry	6	0	0	0	1	0	2	2	1	0	0	0	0	0	0	0
CH 420	Principles of Organic Chemistry	59	0	19	16	12	9	3	0	0	0	0	0	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
CH 426	Green Chemistry and Technology	260	7	27	51	51	65	31	23	1	0	0	3	0	0	1	0
CH 427	Medicinal Chemistry	43	0	4	6	14	10	4	2	3	0	0	0	0	0	0	0
CH 429	Petroleums and Petrochemicals	308	10	23	60	73	89	16	23	14	0	0	0	0	0	0	0
CH 430	Quantum Chemistry	59	1	7	8	16	15	8	2	2	0	0	0	0	0	0	0
CH 431	Group Theory and Spectroscopy	59	0	1	5	3	7	9	6	22	0	0	6	0	0	0	0
CH 435	Physical Chemistry Laboratory	59	0	19	23	17	0	0	0	0	0	0	0	0	0	0	0
CH 498	Project - I	48	0	8	22	13	5	0	0	0	0	0	0	0	0	0	0
CH 499	Project - II	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
CH 511	Principles of Bioinorganic Chemistry	54	0	4	14	16	11	7	0	2	0	0	0	0	0	0	0
CH 515	Inorganic Chemistry Laboratory	54	0	16	17	14	6	1	0	0	0	0	0	0	0	0	0
CH 520	Concepts in Organic Synthesis	54	0	2	12	21	7	9	1	2	0	0	0	0	0	0	0
CH 521	Bio-organic Chemistry	54	1	15	21	7	5	4	1	0	0	0	0	0	0	0	0
CH 530	Classical and Statistical Thermodynamics	54	0	9	14	10	11	8	1	1	0	0	0	0	0	0	0
CH 601	Physical Methods in Chemistry	29	0	11	5	12	0	0	0	0	0	0	1	0	0	0	0
CH 614	Supramolecules: Concepts and Applications	18	0	10	5	3	0	0	0	0	0	0	0	0	0	0	0
CH 626	Art in Organic Synthesis	15	0	3	5	5	1	0	0	0	0	0	0	0	1	0	0
CH 628	Chemistry of Biological Macromolecules	12	0	4	5	1	2	0	0	0	0	0	0	0	0	0	0
CH 633	Chemical Applications of Group Theory	4	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
CH 634	Time dependent Quantum Mechanics	4	0	0	2	1	0	0	0	0	0	0	0	0	0	1	0
CH 637	Computational Methods in Chemistry	6	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0
CH 645	Scientific Writing and Presentation	15	0	6	5	3	0	0	0	0	0	0	0	0	0	1	0
CL 201	Chemical Process Calculation	148	0	9	11	29	43	42	9	5	0	0	0	0	0	0	0
CL 202	Fluid Mechanics	148	1	19	29	37	13	27	19	3	0	0	0	0	0	0	0
CL 203	Chemical Engineering Thermodynamics	95	0	12	13	33	17	14	3	2	0	0	0	1	0	0	0
CL 204	Heat Transfer	93	4	11	8	45	11	10	4	0	0	0	0	0	0	0	0
CL 301	Mass Transfer II	87	2	10	21	22	15	14	2	0	0	1	0	0	0	0	0
CL 302	Chemical Reaction Engineering - II	86	0	5	5	13	17	27	15	4	0	0	0	0	0	0	0
CL 303	Process Control and Instrumentation	87	2	4	18	35	16	8	3	0	0	0	0	0	0	1	0
CL 310	Solid Fluid Operations Laboratory	86	0	41	32	12	1	0	0	0	0	0	0	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
CL 311	Technical Writing and Presentation	87	0	35	30	22	0	0	0	0	0	0	0	0	0	0	0
CL 398	General Learning of Chemical Engineering Research Project - I	7	0	4	0	0	3	0	0	0	0	0	0	0	0	0	0
CL 498	Project I	29	0	11	15	2	1	0	0	0	0	0	0	0	0	0	0
CL 501	Advanced Transport Phenomena	69	0	4	6	11	18	13	11	4	2	0	0	0	0	0	0
CL 502	Computer Aided Numerical Methods	70	4	17	27	19	1	0	0	0	0	0	2	0	0	0	0
CL 511	Petroleum Reservoir Engineering	30	0	5	7	6	6	4	0	0	1	0	0	0	0	1	0
CL 512	Petroleum Refinery Engineering	30	0	1	4	6	11	2	4	0	2	0	0	0	0	0	0
CL 513	Characterization of Materials	49	1	7	18	14	6	1	0	0	1	0	1	0	0	0	0
CL 611	Advanced Process Control	7	0	1	3	1	2	0	0	0	0	0	0	0	0	0	0
CL 614	Fluidization Engineering	99	0	5	15	43	32	4	0	0	0	0	0	0	0	0	0
CL 615	Optimization Techniques	5	0	0	1	0	2	0	0	1	0	0	0	0	1	0	0
CL 623	Polymer Science and Technology	305	1	35	48	117	57	39	0	6	0	0	0	0	0	2	0
CL 626	Energy Resources	71	0	2	6	20	32	11	0	0	0	0	0	0	0	0	0
CL 629	Membranes	46	0	6	4	4	8	12	8	4	0	0	0	0	0	0	0
CL 630	Composites Materials	78	1	5	7	7	19	20	9	9	0	0	1	0	0	0	0
CL 640	Research Methodology and Scientific Writing	31	0	19	9	1	0	1	0	0	0	0	0	1	0	0	0
CL 641	Process Intensification and Integration	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
CL 643	Computer aided applied optimization	59	2	21	15	9	5	1	0	4	0	0	1	0	1	0	0
CL 644	Petroleum Reservoir Simulation	14	1	1	2	5	3	2	0	0	0	0	0	0	0	0	0
CL 645	Applied Statistics for chemical engineers	19	0	0	1	6	4	3	0	0	0	0	0	0	0	5	0
CL 649	Polymer Soft Lithography	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0
CL 652	Process Modelling and simulation lab	13	0	1	7	5	0	0	0	0	0	0	0	0	0	0	0
CL 698	Project	59	3	27	21	6	1	0	0	0	0	0	0	1	0	0	0
CoS 01	CoS 01	511	0	0	0	0	0	0	0	0	0	0	0	0	60	451	0
CS 201	Discrete Mathematics	130	0	12	36	21	30	20	7	3	0	0	0	1	0	0	0
CS 203	Algorithms and Data Structures	130	3	4	16	15	19	21	24	12	0	0	16	0	0	0	0
CS 204	Algorithms and Data Structures Laboratory	134	2	40	35	30	17	3	0	0	0	0	5	2	0	0	0
CS 205M	Theoretical Foundations of Computer Science	55	0	1	9	9	11	20	0	0	0	0	1	0	3	1	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
CS 221	Digital Design	207	1	7	17	19	56	60	17	8	0	0	21	0	1	0	0
CS 242	System Software Laboratory	135	0	17	66	23	13	7	5	3	1	0	0	0	0	0	0
CS 322M	Digital Logic and Computer Architecture	53	0	2	1	4	4	8	11	12	7	0	4	0	0	0	0
CS 323	Introduction to NLP	51	0	7	8	7	5	8	7	2	0	0	0	0	5	2	0
CS 341	Computer Networks	213	2	11	28	35	40	43	30	16	0	0	2	0	6	0	0
CS 342	Computer Networks Laboratory	204	0	13	49	51	32	29	14	15	1	0	0	0	0	0	0
CS 343	Operating Systems	214	0	10	30	40	53	28	22	15	0	0	16	0	0	0	0
CS 344	Operating Systems Lab.	202	0	29	53	67	32	12	9	0	0	0	0	0	0	0	0
CS 441M	Software Engineering	59	0	3	0	3	8	13	19	8	0	0	0	0	4	1	0
CS 498	B Tech Project-I	76	0	22	22	21	7	2	1	0	0	0	0	1	0	0	0
CS 502	Computational Geometry	12	0	0	1	0	3	4	3	1	0	0	0	0	0	0	0
CS 512	Design and Analysis of Algorithms	72	0	10	5	8	20	11	14	3	0	0	0	0	0	1	0
CS 513	Data Structures Lab	80	4	5	7	12	9	20	10	9	0	0	4	0	0	0	0
CS 514	Mathematics for Computer Science	100	0	8	19	28	31	10	3	0	0	0	1	0	0	0	0
CS 536	Advanced Compiler	91	0	11	12	25	11	11	10	8	0	1	0	0	1	1	0
CS 560	Virtual and Augmented Reality Systems	110	0	16	13	20	18	20	15	8	0	0	0	0	0	0	0
CS 563	Neural Networks for NLP	28	1	3	0	12	0	8	0	3	0	0	1	0	0	0	0
CS 566	Speech Processing	76	0	15	11	24	9	7	6	2	0	0	1	0	0	1	0
CS 578	Internet of Things	86	0	9	18	17	19	13	2	4	1	0	2	0	0	1	0
CS 590	Deep Learning	274	1	24	58	76	70	37	4	0	0	0	3	0	0	1	0
CS 591H	Data Structures and Algorithms	22	0	3	8	6	2	0	0	0	0	0	3	0	0	0	0
CS 592H	Databases	21	0	4	3	6	3	2	1	0	0	0	2	0	0	0	0
CS 593	Data structures and Databases Lab	22	0	3	8	5	2	1	0	0	0	0	3	0	0	0	0
CS 594	Python Programming Lab	22	0	5	4	5	2	2	1	0	0	0	3	0	0	0	0
CS 666	Mobile Robotics	4	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0
CS 698	Project I	64	0	3	11	19	12	14	5	0	0	0	0	0	0	0	0
CS 699	Project II	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
DA 211	Algorithms and Data Structure	22	0	3	2	4	6	2	2	3	0	0	0	0	0	0	0
DA 212	Algorithms and Data Structure Lab	22	0	3	4	8	5	0	2	0	0	0	0	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
DA 231	Introduction to Data Science	26	0	3	5	8	3	3	0	0	0	0	0	0	1	3	0
DA 241	Statistical Foundations for Data Science	28	0	1	5	6	5	4	1	0	0	0	0	0	3	3	0
DA 241M	Mathematical Foundations of Data Science	52	0	6	9	15	15	3	4	0	0	0	0	0	0	0	0
DA 242	Discrete Mathematics	23	0	2	3	4	1	6	6	0	0	0	0	0	1	0	0
DA 251	Signals , Systems & Networks	22	0	3	3	7	3	3	2	1	0	0	0	0	0	0	0
DA 547	Introduction to Mathematical Biology	66	0	5	11	9	11	16	7	7	0	0	0	0	0	0	0
DA 621	Deep Learning for Computer Vision	28	1	2	5	10	7	1	0	0	0	0	0	0	0	2	0
DA 771	Machine Learning in Quantum Physics	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
DD 201	Form Studies	60	0	5	24	31	0	0	0	0	0	0	0	0	0	0	0
DD 202	Photo and Video Communication	61	1	8	20	24	5	2	1	0	0	0	0	0	0	0	0
DD 204	Visual Communication Theory	61	1	5	21	19	11	3	1	0	0	0	0	0	0	0	0
DD 205	Ergonomics in Design	61	0	8	15	24	11	2	0	0	1	0	0	0	0	0	0
DD 206	User Research Methods	61	0	5	15	13	22	4	1	1	0	0	0	0	0	0	0
DD 210M	Introduction to Design	29	0	0	1	4	8	7	2	2	1	0	3	0	1	0	0
DD 216	BDes Project I	52	0	8	20	14	9	0	0	0	1	0	0	0	0	0	0
DD 301	Interaction Design	55	0	8	29	10	0	6	0	0	0	0	0	0	2	0	0
DD 302	Design Analysis	58	0	3	13	16	9	3	0	0	9	0	5	0	0	0	0
DD 304	Tangible Interfaces	51	0	0	4	34	11	1	0	0	0	0	0	0	1	0	0
DD 310M	Product Design	27	0	3	5	3	6	2	1	2	1	0	1	0	3	0	0
DD 321	Modelling and SImulation Techniques	12	0	1	3	3	3	0	0	0	1	0	0	0	1	0	0
DD 322	Animation Fundamentals	40	0	9	11	11	7	2	0	0	0	0	0	0	0	0	0
DD 398	BDes Project II	4	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0
DD 401	Design Management	57	0	19	11	11	8	4	2	0	1	0	0	0	0	1	0
DD 402	Design Research and Technical Writing	57	0	3	9	8	20	6	8	2	1	0	0	0	0	0	0
DD 410M	Design Management	29	0	6	6	5	8	4	0	0	0	0	0	0	0	0	0
DD 498	Design Project III	58	5	11	10	7	12	6	6	0	1	0	0	0	0	0	0
DD 499	BDes Project IV	3	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0
DD 501	Design - An Introduction	33	0	6	9	13	5	0	0	0	0	0	0	0	0	0	0
DD 502	Visual Design - Principles and Applications	30	0	17	12	1	0	0	0	0	0	0	0	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
DD 503	Ergonomics	33	0	1	6	9	11	6	0	0	0	0	0	0	0	0	0
DD 504	Design Methods	36	0	2	9	17	7	1	0	0	0	0	0	0	0	0	0
DD 508	Product Design Prototyping and Advanced Manufacturing	5	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0
DD 512	New Media Studies	15	0	1	2	6	5	1	0	0	0	0	0	0	0	0	0
DD 515	Typography	15	0	3	8	3	0	0	0	0	1	0	0	0	0	0	0
DD 518	Representation Techniques for Animation	45	0	3	8	10	11	6	2	0	0	0	0	0	0	2	3
DD 521	System Design For Sustainability	4	0	0	1	2	0	0	0	1	0	0	0	0	0	0	0
DD 534	Human Computer Interaction in Virtual Reality	26	0	0	0	2	18	6	0	0	0	0	0	0	0	0	0
DD 542	Introduction to Industrial Design	29	0	6	4	16	3	0	0	0	0	0	0	0	0	0	0
DD 543	Product Design Methods	29	0	4	2	22	1	0	0	0	0	0	0	0	0	0	0
DD 544	Ergonomics in Product Design	29	0	4	3	11	9	0	2	0	0	0	0	0	0	0	0
DD 545	Rapid Prototyping and Development	31	4	8	10	8	1	0	0	0	0	0	0	0	0	0	0
DD 550	Image Processing with Machine Learning	7	0	1	3	1	1	0	0	0	0	0	0	0	0	1	0
DD 551	Biomedical Devices	24	0	3	4	6	9	2	0	0	0	0	0	0	0	0	0
DD 553	Basics of Signal Processing	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
DD 601	Usability Engineering	47	0	1	13	16	11	3	0	1	2	0	0	0	0	0	0
DD 603	Thesis Project Phase I	30	1	5	5	10	8	0	0	0	1	0	0	0	0	0	0
DD 705	Design Research Methods	6	0	1	2	1	1	0	0	0	0	0	0	0	0	1	0
DD 709	Design-based Project	4	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0
DD 710	Research-based Project	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0
DM 501	Fundamentals of disaster management	9	0	2	2	2	3	0	0	0	0	0	0	0	0	0	0
DM 502	Socio-economic and policy aspects of disaster risk reduction	10	0	2	3	3	2	0	0	0	0	0	0	0	0	0	0
DM 511	Application of Artificial Intelligence for Disaster Management	6	0	1	1	3	1	0	0	0	0	0	0	0	0	0	0
DM 698	Project Phase 2	9	0	2	4	3	0	0	0	0	0	0	0	0	0	0	0
DS 698	MTP Project - I	21	0	1	3	7	6	2	1	0	1	0	0	0	0	0	0
EE 203	Semiconductor Devices	180	2	9	17	38	57	33	17	2	0	0	4	1	0	0	0
EE 204	Circuit Theory	114	3	5	11	20	34	19	9	6	0	0	7	0	0	0	0
EE 205	Principles of Electrical Engineering	66	0	3	3	6	10	17	8	7	0	1	11	0	0	0	0

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EE 210	Digital circuits	181	1	12	14	48	29	25	24	21	1	0	6	0	0	0	0
EE 211	Digital circuits Laboratory	181	0	21	50	56	37	9	6	0	2	0	0	0	0	0	0
EE 211M	Analog Circuits	34	0	5	7	10	1	0	2	3	4	0	2	0	0	0	0
EE 220	Signals and Systems	241	2	17	25	46	71	47	16	5	0	0	10	2	0	0	0
EE 311	VLSI Laboratory	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
EE 312	Embedded Systems	183	0	7	20	23	40	50	29	10	0	0	4	0	0	0	0
EE 321	Digital Signal Processing	120	3	10	13	20	21	34	10	7	2	0	0	0	0	0	0
EE 331	Principles of Communication	184	0	10	25	44	41	24	21	13	0	0	6	0	0	0	0
EE 340	Electromagnetic Theory	183	0	13	26	41	54	27	7	11	1	0	3	0	0	0	0
EE 340M	Electromagnetic Field Theory	34	0	2	14	9	1	5	0	0	0	0	3	0	0	0	0
EE 351	Control and Robotics Laboratory	184	0	33	68	60	7	5	7	1	3	0	0	0	0	0	0
EE 380	Electrical Machines	192	2	23	31	66	50	18	0	2	0	0	0	0	0	0	0
EE 398	BTech Project-I	13	0	2	8	1	1	0	0	0	1	0	0	0	0	0	0
EE 424M	Communication Systems	46	0	1	1	3	6	5	7	8	2	0	13	0	0	0	0
EE 498	Project I	10	0	2	6	1	0	0	0	1	0	0	0	0	0	0	0
EE 510	Semiconductor Device Modeling	42	0	1	7	13	10	2	3	3	2	0	0	0	1	0	0
EE 511	Semiconductor IC Technology	27	0	4	6	9	3	1	2	0	2	0	0	0	0	0	0
EE 513	VLSI Lab I	21	0	3	6	9	1	0	0	0	2	0	0	0	0	0	0
EE 514	Digital IC Design	31	0	8	5	7	2	0	0	0	2	0	0	0	0	7	0
EE 519	Photonics and Microelectronics Laboratory	12	0	2	2	5	3	0	0	0	0	0	0	0	0	0	0
EE 520	Signal Processing Algorithms and Architectures	26	0	2	5	13	3	1	1	0	1	0	0	0	0	0	0
EE 523	Introduction to Machine Learning	33	0	8	7	9	8	0	0	0	0	0	0	0	0	1	0
EE 524	Machine Learning Laboratory	25	0	2	4	11	7	0	0	0	1	0	0	0	0	0	0
EE 530	Communication System Theory	20	0	2	4	7	5	2	0	0	0	0	0	0	0	0	0
EE 531	Communication System Simulation Lab	19	1	3	4	5	3	3	0	0	0	0	0	0	0	0	0
EE 537	Information Theory	20	0	5	2	5	3	3	1	1	0	0	0	0	0	0	0
EE 542	RF Circuits and Systems	16	0	2	2	7	3	1	1	0	0	0	0	0	0	0	0
EE 547	Photonics Devices	15	0	1	4	7	3	0	0	0	0	0	0	0	0	0	0
EE 550	Linear Systems Theory	29	0	2	5	11	7	3	0	0	1	0	0	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
EE 551	Estimation and Identification	11	0	1	0	3	3	0	2	1	0	0	0	0	0	1	0
EE 552	Applied Control Lab	11	0	4	7	0	0	0	0	0	0	0	0	0	0	0	0
EE 556	Linear Algebra	16	0	4	3	2	4	2	1	0	0	0	0	0	0	0	0
EE 560	Power Electronic Converters	16	0	2	2	3	4	2	1	0	1	0	0	0	1	0	0
EE 561	Power Electronics Laboratory	17	0	4	4	8	0	0	0	0	1	0	0	0	0	0	0
EE 570	Modern Power Systems	17	0	1	6	5	3	1	0	0	0	0	1	0	0	0	0
EE 571	Insulation and High Voltage Engineering	15	0	0	5	5	1	3	0	0	0	0	1	0	0	0	0
EE 590	Linear Algebra and Optimization	56	0	1	6	24	14	7	2	0	1	0	0	0	0	1	0
EE 591	Probability and Stochastic Processes	55	1	3	7	11	18	7	3	0	0	0	2	0	0	3	0
EE 610	Fundamentals of VLSI CAD	50	0	5	11	9	9	4	4	6	0	0	1	0	0	1	0
EE 623	Speech Signal Processing and Coding	6	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0
EE 630	Mobile communication	55	1	0	2	6	11	13	8	8	2	0	4	0	0	0	0
EE 636	Selected Topics in Information Theory	9	0	1	4	2	2	0	0	0	0	0	0	0	0	0	0
EE 638	Massive MIMO for 5G Communications	7	1	2	2	1	0	0	0	0	0	0	0	0	0	1	0
EE 644	Plasmonic, nanophotonic and metamaterials	30	0	2	7	8	7	3	1	0	2	0	0	0	0	0	0
EE 646	Optical Measurement Techniques and Applications	141	0	8	24	62	33	11	1	0	2	0	0	0	0	0	0
EE 653	Modeling and Simulation of Dynamic Systems	64	1	5	5	8	18	10	9	5	0	0	3	0	0	0	0
EE 658	Optimization Techniques	37	1	5	5	12	7	6	0	0	1	0	0	0	0	0	0
EE 660	Modelling and Control of Power Electronic Converters	49	0	2	6	13	13	10	1	3	0	0	1	0	0	0	0
EE 672	Electrical Power Quality and Reliability	54	2	1	7	9	10	8	6	7	0	0	4	0	0	0	0
EE 692	Detection and Estimation Theory	38	0	5	2	4	0	7	4	2	0	0	14	0	0	0	0
EE 693	Advanced Topics in Random Processes	8	0	2	3	3	0	0	0	0	0	0	0	0	0	0	0
EE 695	Data-Driven System Theory	121	0	10	29	30	18	15	8	4	1	0	6	0	0	0	0
EE 696	Introduction to Quantum Computing	3	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0
EE 698	Project Phase I	78	0	5	26	27	11	4	2	0	0	0	1	2	0	0	0
EM 501	E-mobility, Electric and Hybrid Vehicles	9	0	1	4	3	0	0	0	0	1	0	0	0	0	0	0
EM 502	Modelling, Dynamics and Control of Evs	13	0	4	3	3	0	0	0	0	1	0	0	0	2	0	0
EM 503	Energy storage and conversion	9	0	1	3	2	2	0	0	0	1	0	0	0	0	0	0
EM 598	Project Phase 2	8	0	3	2	1	1	0	0	0	1	0	0	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
EN 661	Renewable Energy Systems	19	0	3	5	9	0	2	0	0	0	0	0	0	0	0	0
EN 663	Operation and instrumentation	15	0	7	7	1	0	0	0	0	0	0	0	0	0	0	0
EN 672	Energy Storage Systems	17	0	1	3	5	6	2	0	0	0	0	0	0	0	0	0
EN 673	Fundamentals of Energy Engineering	16	0	2	3	3	6	1	1	0	0	0	0	0	0	0	0
EN 680	Distributed Energy Resources in Electric Grid	15	0	4	2	4	5	0	0	0	0	0	0	0	0	0	0
EN 698	Project 2	16	0	6	4	5	0	0	0	0	0	0	0	1	0	0	0
HS 116	Sociology of India: Conformities and Contradictions	96	0	10	19	23	14	17	8	4	0	0	0	0	1	0	0
HS 120	Language, Culture and Cognition	91	0	13	16	15	13	15	5	9	0	2	3	0	0	0	0
HS 129	Economic Theory: An Introduction	172	0	12	34	42	64	14	4	1	0	0	0	0	0	1	0
HS 133	Introduction to Phonetics	29	0	2	1	1	2	3	7	8	1	0	4	0	0	0	0
HS 142	India's Health System	63	0	2	11	23	17	6	2	2	0	0	0	0	0	0	0
HS 144	Drama from Aristotle to Goethe	55	0	4	4	5	12	8	7	14	0	0	0	0	0	1	0
HS 147	War and Peace: Indiaâ€™s Military History	113	1	2	13	42	46	9	0	0	0	0	0	0	0	0	0
HS 149	Consumer Behaviour	140	0	7	22	41	38	22	7	3	0	0	0	0	0	0	0
HS 151	Cities	109	0	1	38	50	17	2	1	0	0	0	0	0	0	0	0
HS 155	Introductory Mathematical Economics	73	0	15	22	20	10	2	2	0	0	0	2	0	0	0	0
HS 160	Logical Reasoning	63	1	6	11	13	21	7	3	1	0	0	0	0	0	0	0
HS 211	Sound Structure of Language and Speech Analysis	84	0	4	3	14	16	6	18	19	2	0	2	0	0	0	0
HS 212	Public Economics	65	0	7	3	6	21	11	15	2	0	0	0	0	0	0	0
HS 213	Psychology of Health and Adjustment	136	0	2	18	17	22	29	36	11	0	0	0	0	1	0	0
HS 219	Archaeological Studies in Ancient Technology	63	0	0	4	4	11	21	14	8	1	0	0	0	0	0	0
HS 225	Inventing the Truth: The Art and Craft of Autobiography	66	3	11	9	18	4	8	10	3	0	0	0	0	0	0	0
HS 231M	Comparative Drama	12	0	1	2	4	0	0	0	0	0	0	0	5	0	0	0
HS 232	Economics of Climate Change	148	0	0	8	17	58	45	18	0	0	0	1	0	0	1	0
HS 236	Sociological Perspectives on Modernity	130	0	8	39	42	30	3	3	2	0	1	1	0	0	1	0
HS 245	Race in the American and South African Novel	66	0	0	2	4	9	13	13	25	0	0	0	0	0	0	0
HS 318M	Contemporary Literary Theory	5	0	2	1	1	0	1	0	0	0	0	0	0	0	0	0
HS 418M	Language and Thought	10	0	3	2	3	1	1	0	0	0	0	0	0	0	0	0
HS 501	Essentials of Political Theory	65	0	2	3	8	13	15	10	9	0	0	5	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
HS 514	Agriculture and Rural Development	41	0	3	1	4	6	13	10	4	0	0	0	0	0	0	0
HS 515	Introduction to Economics	48	0	3	7	5	12	5	12	1	3	0	0	0	0	0	0
HS 516	The Study of Society	48	0	6	13	12	8	4	2	0	1	0	2	0	0	0	0
HS 519	Economic History of Colonial India	49	0	5	12	16	11	0	0	1	0	0	3	0	0	1	0
HS 521	Region, Nation and the Making of Post-Colonial India	43	0	5	12	13	5	8	0	0	0	0	0	0	0	0	0
HS 522	Quantitative Research Methods in Social Sciences	57	0	2	7	6	8	7	12	5	1	0	7	0	0	2	0
HS 552	Critical Reasoning	10	0	1	3	3	1	1	0	0	1	0	0	0	0	0	0
HS 554	Theories and Thinkers: The Concept of Culture	16	0	2	1	1	6	4	1	0	1	0	0	0	0	0	0
HS 555	Introduction to Liberal Studies	16	0	2	3	4	3	3	0	0	1	0	0	0	0	0	0
HS 558	Between History and Memory : Genres of Life Writing	15	0	4	1	4	3	2	0	0	0	0	0	1	0	0	0
HS 560	Race and the Novel	10	0	0	0	4	4	1	0	0	0	0	0	0	0	1	0
HS 618	Modern Political and Social Imaginaries	36	0	4	6	11	11	3	1	0	0	0	0	0	0	0	0
HS 620	Political Economy of Agrarian Development	39	0	3	3	5	9	11	4	4	0	0	0	0	0	0	0
HS 624	Land, Dispossession and Development	46	0	2	7	12	7	12	4	2	0	0	0	0	0	0	0
HS 630	Causal Inference in Development Economics	20	0	5	4	3	4	2	2	0	0	0	0	0	0	0	0
HS 698	Project Phase 1	43	0	7	13	15	8	0	0	0	0	0	0	0	0	0	0
HS 704	Crossing Cultures	11	0	0	1	4	6	0	0	0	0	0	0	0	0	0	0
HS 721	Research in Cultural Studies	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
HS 722	Cultural Anthropology	5	0	2	1	0	2	0	0	0	0	0	0	0	0	0	0
HS 723	Methods in Historical Research	4	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0
HS 726	History of Assam	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
HS 729	Sociological Theory	3	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
HS 730	Research Methods in Sociology	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
HS 733	Issues in Phonological Theory	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
HS 735	Experimental Phonology	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
HS 736	Approaches to Prosodic Structure	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
HS 738	Perspectives on Science, Technology and Society	4	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0
HS 768	Bilingualism: language and cognition	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
HS 769	RESEARCH METHODS IN LINGUISTICS	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
HS 781	Approaches to Diplomatic and Military History	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
HS 787	The Material Text and its Other	11	0	3	2	3	3	0	0	0	0	0	0	0	0	0	0
HSS 746	Social Epistemology	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
HT 501	Introduction to Cellular Processes	20	1	6	6	4	2	0	0	1	0	0	0	0	0	0	0
HT 502	Basic Physiology for Clinical Immersion	20	7	7	2	3	1	0	0	0	0	0	0	0	0	0	0
HT 503	Introduction to Biomedical Electronics and Instrumentation	19	3	3	6	2	4	1	0	0	0	0	0	0	0	0	0
HT 504	Basics of Mathematical Modelling and Simulation	20	5	3	9	3	0	0	0	0	0	0	0	0	0	0	0
HT 505	Research Methodology, Ethics, IPR, Entrepreneurship and Biosafety	22	3	3	7	8	1	0	0	0	0	0	0	0	0	0	0
IFST 001	Advanced Food Processing	5	0	2	1	2	0	0	0	0	0	0	0	0	0	0	0
IFST 002	International Joint Exercises in Food Science and Technology	5	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0
IFST 003	International Joint Global Internship & Seminar-B	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IFST 005	Design thinking and Scientific Writing	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
IFST 007	Membranes	5	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0
IFST 016	Product and Process Development in Food and Bioprocessing Industries	5	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0
IFST 018	Joint Degree Dissertation	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
IFST 019	Joint Degree Dissertation	5	0	3	1	1	0	0	0	0	0	0	0	0	0	0	0
LS 501	Mathematics and Statistics	5	0	0	1	0	2	1	0	0	1	0	0	0	0	0	0
LS 531	Data Structure and Programming	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
LS 551	Introduction to Linguistic Science	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
MA 201	Mathematics III	701	0	1	5	41	95	91	174	171	0	4	118	0	0	0	1
MA 211M	Real Analysis	41	0	1	1	0	2	6	6	20	0	0	5	0	0	0	0
MA 221	Discrete Mathematics	79	0	4	3	9	11	15	6	24	0	0	7	0	0	0	0
MA 222	Elementary Number Theory and Algebra	210	1	7	22	38	47	51	23	14	0	0	7	0	0	0	0
MA 225	Probability Theory and Random Processes	208	3	15	19	48	27	40	32	16	0	0	7	0	1	0	0
MA 251	Data Structures	79	2	9	11	13	18	9	13	4	0	0	0	0	0	0	0
MA 311M	Scientific Computing	43	1	1	4	4	6	7	12	5	0	0	2	0	0	1	0
MA 321	Optimization	208	9	14	24	35	18	36	46	24	0	0	2	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
MA 323	Monte Carlo Simulation	79	1	6	9	20	21	9	10	3	0	0	0	0	0	0	0
MA 372	Stochastic Calculus for Finance	79	2	11	9	8	10	13	11	9	0	0	6	0	0	0	0
MA 411M	Differential Geometry	45	1	2	0	1	14	7	5	9	0	0	6	0	0	0	0
MA 423	Matrix Computations	72	1	3	5	7	16	20	16	4	0	0	0	0	0	0	0
MA 473	Computational Finance	71	1	11	14	9	11	8	13	3	0	0	1	0	0	0	0
MA 498	Project-I	70	2	23	11	19	5	6	3	1	0	0	0	0	0	0	0
MA 499	Project II	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
MA 501	Discrete Mathematics	59	1	2	8	6	12	9	11	10	0	0	0	0	0	0	0
MA 502	Graph Theory	25	0	3	1	0	2	3	7	3	1	0	5	0	0	0	0
MA 506	Number Theory and Cryptography	15	0	0	0	0	0	2	3	10	0	0	0	0	0	0	0
MA 511	Computer Programming	61	2	5	5	11	14	9	12	3	0	0	0	0	0	0	0
MA 514	Theory of Computation	61	0	3	2	13	13	22	6	0	0	0	0	0	0	2	0
MA 518	Database Management Systems	50	1	2	3	11	12	12	6	3	0	0	0	0	0	0	0
MA 521	Modern Algebra	59	2	1	7	20	9	14	3	3	0	0	0	0	0	0	0
MA 522	Linear Algebra	59	1	3	8	19	18	7	2	1	0	0	0	0	0	0	0
MA 541	Real Analysis	59	2	1	3	14	12	13	11	3	0	0	0	0	0	0	0
MA 543	Functional Analysis	60	0	0	0	2	6	3	7	17	0	0	25	0	0	0	0
MA 549	Topology	33	0	4	11	5	7	5	0	1	0	0	0	0	0	0	0
MA 572	Numerical Analysis	60	0	1	5	9	11	16	9	9	0	0	0	0	0	0	0
MA 579H	Scientific Computing	22	0	1	2	3	8	1	2	3	2	0	0	0	0	0	0
MA 580H	Matrix Computations	21	0	1	0	4	4	0	5	3	2	0	2	0	0	0	0
MA 581	Numerical Computations Lab	22	0	3	3	2	2	1	4	1	3	0	3	0	0	0	0
Ma 589	Statistical Foundations for Data Science	25	0	3	2	5	4	6	0	0	3	0	2	0	0	0	0
MA 642	Real Analysis A	13	0	3	5	3	2	0	0	0	0	0	0	0	0	0	0
MA 662	Differential Equations	9	0	4	5	0	0	0	0	0	0	0	0	0	0	0	0
MA 683	Probability Theory	6	0	4	0	2	0	0	0	0	0	0	0	0	0	0	0
MA 691	Advanced Statistical Algorithms	17	1	2	3	3	5	2	0	0	0	0	1	0	0	0	0
MA 697	Seminar	58	0	11	11	13	3	9	5	5	0	0	1	0	0	0	0
MA 699	Project	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
MA 745	Theory of Distribution and Sobolev Spaces	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
ME 201M	Introduction to Robotics	15	1	3	3	3	0	0	0	0	0	0	5	0	0	0	0
ME 211	Thermodynamics	114	0	10	21	45	20	8	3	7	0	0	0	0	0	0	0
ME 212	Solid Mechanics I	206	2	13	37	38	31	49	29	3	0	0	4	0	0	0	0
ME 213	Engineering Materials	113	0	12	15	21	30	19	7	9	0	0	0	0	0	0	0
ME 214	Fluid Mechanics - I	114	0	1	10	24	32	25	15	7	0	0	0	0	0	0	0
ME 215	Machine Drawing	116	0	29	50	23	6	7	0	0	0	0	0	0	0	1	0
ME 216	Mechanical Engg Laboratary- I	116	0	27	68	19	0	2	0	0	0	0	0	0	0	0	0
ME 301M	Robotic Vision and Control	20	1	4	6	3	1	1	0	0	0	0	0	0	0	4	0
ME 311	Heat Transfer	127	2	7	17	23	21	17	16	17	0	0	7	0	0	0	0
ME 312	Manufacturing Technology II	125	0	23	25	35	22	13	5	0	2	0	0	0	0	0	0
ME 313	Dynamics of Machinery	129	1	16	15	33	20	15	18	6	0	0	5	0	0	0	0
ME 314	Design of Machine Elements	129	0	8	16	24	27	14	16	10	0	3	11	0	0	0	0
ME 315	Mechanical Engineering Laboratory III	125	0	15	40	42	22	2	1	1	0	0	2	0	0	0	0
ME 398	BTech Project-I	124	0	37	39	26	9	7	4	2	0	0	0	0	0	0	0
ME 401	Summer Training	109	0	0	0	0	0	0	0	0	0	0	0	0	0	109	0
ME 401M	Project	7	0	1	5	0	1	0	0	0	0	0	0	0	0	0	0
ME 498	BTech Project-III	113	0	10	36	44	15	4	4	0	0	0	0	0	0	0	0
ME 499	Project-II	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
ME 501	Advanced Engineering Mathematics	120	0	7	19	31	36	20	2	0	4	0	0	1	0	0	0
ME 502	Engineering Computing Laboratory	124	0	2	5	57	34	14	6	1	4	0	1	0	0	0	0
ME 503	Technical Writing	96	5	17	36	19	7	6	0	2	0	0	4	0	0	0	0
ME 504	MTP Phase I	95	0	17	26	25	10	5	2	4	3	0	1	2	0	0	0
ME 505	MTP Phase II	3	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0
ME 510	Subtractive Manufacturing	47	0	11	28	7	0	0	0	0	1	0	0	0	0	0	0
ME 512	Welding and Additive Manufacturing	123	5	15	13	32	21	18	11	3	1	0	4	0	0	0	0
ME 520	Fluid Mechanics	38	1	4	6	7	6	4	4	3	3	0	0	0	0	0	0
ME 521	Conduction and Radiation	43	0	3	5	11	8	5	7	2	0	0	2	0	0	0	0
ME 523	Advanced Thermodynamics	40	0	4	10	16	6	2	0	0	0	0	2	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
ME 530	Advanced Mechanics of Solids	51	0	7	12	12	7	10	1	0	2	0	0	0	0	0	0
ME 531	Mechanical Vibrations	52	2	4	10	21	8	4	0	1	1	0	0	1	0	0	0
ME 532	Finite Element Methods in Engineering	69	0	3	6	7	10	9	12	12	1	0	7	1	1	0	0
ME 543	Computational Fluid Dynamics	57	0	3	10	13	14	13	1	0	0	0	2	1	0	0	0
ME 550	Introduction to Aerospace Engineering	12	0	1	1	3	5	1	0	0	1	0	0	0	0	0	0
ME 551	Aerodynamics	13	0	3	2	5	2	0	0	0	0	0	0	0	1	0	0
ME 608	Computer Aided Design-Computer Aided Manufacturing	32	0	4	6	13	4	4	0	0	0	0	1	0	0	0	0
ME 609	Optimization Methods in Engineering	58	0	6	5	18	15	6	5	3	0	0	0	0	0	0	0
ME 640	Robotics and Robot Application	79	0	10	20	19	20	6	2	1	0	0	1	0	0	0	0
ME 659	Tribology of Bearings	4	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0
ME 674	Soft Computing in Engineering	59	1	7	11	12	10	13	1	0	0	1	3	0	0	0	0
ME 676	Theory of Plate and Shells	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
ME 678	Mechanics of Sheet Metal Forming	40	0	4	11	13	9	1	0	0	0	0	1	0	0	1	0
ME 679	Mechanical Behaviour of Materials	10	0	2	2	4	2	0	0	0	0	0	0	0	0	0	0
ME 680	Experimental Method	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
ME 689	Smart Materials: Modelling and Applications	8	0	1	2	1	2	2	0	0	0	0	0	0	0	0	0
NCC	NCC	122	0	0	0	0	0	0	0	0	0	0	0	0	5	117	0
NSO-Athletic	NSO-Athletic	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
NSO-Badminton	NSO-Badminton	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
NSO-Basketball	NSO-Basketball	31	0	0	0	0	0	0	0	0	0	0	0	0	4	27	0
NSO-Cricket	NSO-Cricket	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
NSO-Football	NSO-Football	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
NSO-Hockey	NSO-Hockey	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0
NSO-Swimming	NSO-Swimming	31	0	0	0	0	0	0	0	0	0	0	0	0	7	24	0
NSO-Tennis	NSO-Tennis	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0
NSO-TT	NSO-TT	30	0	0	0	0	0	0	0	0	0	0	0	0	2	28	0
NSO-Volleyball	NSO-Volleyball	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
NSO-Weightlifting	NSO-Weightlifting	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0
NT 601	Nano Device: Fabrication, Productization and Patent	14	0	1	6	3	2	1	0	0	1	0	0	0	0	0	0
NT 602	Laboratory Safety and Risk Management: Principles	6	0	2	2	1	0	0	0	0	1	0	0	0	0	0	0
PH 201	Mathematical Physics	76	0	3	7	11	16	10	11	9	0	1	8	0	0	0	0
PH 203	Classical Mechanics	63	1	2	7	6	7	9	13	11	0	0	7	0	0	0	0
PH 205	Semiconductor Devices	62	0	3	1	4	8	11	20	7	0	0	8	0	0	0	0
PH 207	Heat and Thermodynamics	62	0	0	3	5	15	13	9	9	0	0	8	0	0	0	0
PH 209	Analog Electronics	62	0	4	7	13	10	14	5	2	1	1	5	0	0	0	0
PH 211	Electronics Laboratory -I	62	0	7	38	14	2	0	0	1	0	0	0	0	0	0	0
PH 281M	Quantum Physics	20	0	1	1	0	3	0	3	0	0	0	1	11	0	0	0
PH 301	Statistical Mechanics	58	0	6	6	11	12	8	7	5	0	0	3	0	0	0	0
PH 303	Quantum Mechanics II	57	0	3	5	7	5	11	12	9	0	0	5	0	0	0	0
PH 305	Engineering Optics	57	0	1	2	10	12	20	8	4	0	0	0	0	0	0	0
PH 307	Atomic and Molecular Spectroscopy	58	2	5	12	7	11	13	6	2	0	0	0	0	0	0	0
PH 309	Electronics Lab-II	57	0	17	14	13	9	3	0	1	0	0	0	0	0	0	0
PH 381M	Computational Physics	7	2	0	2	0	1	0	0	0	2	0	0	0	0	0	0
PH 401	Math Phy-I	56	0	1	4	6	8	13	15	4	0	0	4	1	0	0	0
PH 403	Classical Mechanics	56	0	6	7	8	7	8	8	7	0	0	4	1	0	0	0
PH 405	Quantum Mechanics-I	56	0	8	7	6	4	6	7	9	1	0	8	0	0	0	0
PH 407	Computer programming and numerical methods	56	0	1	7	8	9	18	9	2	1	0	1	0	0	0	0
PH 409	Electronics	56	0	6	5	14	8	11	2	4	0	0	6	0	0	0	0
PH 411	Electronics Lab	56	0	11	29	7	5	2	1	0	1	0	0	0	0	0	0
PH 413	Nanoelectronics and Nanophotonics	11	0	2	1	1	2	3	0	1	0	0	0	1	0	0	0
PH 415	Simulation techniques in physical systems	53	0	5	7	18	11	5	3	1	0	0	2	1	0	0	0
PH 419	Materials Science and Engineering	42	2	4	4	6	7	10	6	2	0	0	0	1	0	0	0
PH 421	Project-I	18	0	2	10	2	1	1	0	1	0	0	0	1	0	0	0
PH 448	Solar Cells : Fundamentals and Applications	25	0	1	0	1	2	5	5	7	0	0	0	1	0	3	0
PH 460	Electroceramics	35	1	4	6	9	7	4	4	0	0	0	0	0	0	0	0
PH 481M	Materials Science and Engineering	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
PH 501	Electrodynamics II	55	0	4	4	22	16	8	1	0	0	0	0	0	0	0	0
PH 503	Atomic and Molecular Physics	55	0	3	3	12	22	8	5	2	0	0	0	0	0	0	0
PH 505	Solid State Physics	54	0	0	0	4	12	13	9	14	0	0	2	0	0	0	0
PH 507	Nuclear and Particle Physics	55	0	1	1	15	13	9	12	4	0	0	0	0	0	0	0
PH 509	Project-1	56	0	16	25	12	2	1	0	0	0	0	0	0	0	0	0
PH 511	General Physics Laboratory II	54	0	10	31	13	0	0	0	0	0	0	0	0	0	0	0
PH 522	Physics of Semiconductors	29	1	14	5	4	5	0	0	0	0	0	0	0	0	0	0
PH 536	Quantum Optics	9	0	1	0	0	2	1	0	0	0	0	0	0	0	5	0
PH 543	Quantum Field Theory	24	0	3	5	7	3	1	2	0	0	0	0	0	0	3	0
PH 701	Advanced Condensed Matter Physics	12	1	5	2	2	2	0	0	0	0	0	0	0	0	0	0
PH 703	Quantum Electronics	12	0	2	3	2	4	0	0	0	0	0	0	0	0	1	0
PH 705	Quantum Field Theory and the Standard Model	6	0	1	1	3	1	0	0	0	0	0	0	0	0	0	0
PH 707	Computational Physics	28	0	2	0	4	10	7	4	1	0	0	0	0	0	0	0
RA 501	Fundamentals of Robotics	28	0	1	4	7	7	8	0	0	1	0	0	0	0	0	0
RA 502	Artificial Intelligence	31	1	4	7	9	4	0	0	0	0	0	2	0	4	0	0
RA 503	Robot Design Laboratory	20	0	4	11	4	0	0	0	0	1	0	0	0	0	0	0
RA 504	Programming Laboratory	21	0	3	10	3	4	0	0	0	0	0	1	0	0	0	0
RA 507	Technical Writing	16	2	2	5	6	1	0	0	0	0	0	0	0	0	0	0
RA 598	Project Phase 1	16	0	2	7	4	1	0	2	0	0	0	0	0	0	0	0
RT 504	Rural Water Supply and Sanitation	14	0	2	6	3	1	0	0	0	2	0	0	0	0	0	0
RT 510	Research Methodology and Quantitative Techniques for Rural Development	15	0	1	3	7	1	1	0	0	2	0	0	0	0	0	0
RT 516	Product and Process Development in Food and Bioprocessing industries	11	0	1	5	2	1	0	0	0	2	0	0	0	0	0	0
RT 523	Rural Technology and Development	13	0	3	3	2	2	1	0	0	2	0	0	0	0	0	0
RT 691	Project Phase I	11	0	0	10	1	0	0	0	0	0	0	0	0	0	0	0
SA 201	Athletics	99	0	0	0	0	0	0	0	0	0	0	0	0	3	96	0
SA 203	Volleyball	100	0	0	0	0	0	0	0	0	0	0	0	0	4	96	0
SA 204	Football	100	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0
SA 206	Cricket	100	0	0	0	0	0	0	0	0	0	0	0	0	2	98	0

Course Code	Course Name	Total Students	AS	AA	AB	BB	BC	CC	CD	DD	FA	FD	FP	I	NP	PP	X
SA 207	Badminton	100	0	0	0	0	0	0	0	0	0	0	0	0	2	98	0
SA 210	YOGA	289	0	0	0	0	0	0	0	0	0	0	0	0	29	260	0
SA 215	Yoga-2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
SA 216	Weight Lifting	72	0	0	0	0	0	0	0	0	0	0	0	0	7	65	0
SA 217	Swimming	100	0	0	0	0	0	0	0	0	0	0	0	0	24	76	0
SA 315	Yoga-4	125	0	0	0	0	0	0	0	0	0	0	0	0	66	59	0
SP 501	Introduction to Sustainable Polymers	8	0	2	3	2	1	0	0	0	0	0	0	0	0	0	0
SP 502	Polymer Processing and Rheology	8	0	2	3	1	2	0	0	0	0	0	0	0	0	0	0
SP 503	Polymer Synthesis and Characterization	8	0	3	3	1	1	0	0	0	0	0	0	0	0	0	0
SP 511	Polymer Processing and Rheology Laboratory	8	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0
SP 512	Polymer Synthesis and Characterization Laboratory	8	0	2	3	3	0	0	0	0	0	0	0	0	0	0	0
Total Courses 553		28858	222	3048	5053	5900	4761	3267	2074	1318	166	16	650	65	265	2049	4