

Department of Biochemical Engineering and Biotechnology

Minutes of the electronic meeting of the Departmental Faculty Board (12/2019-20)
held on email on 19-08-2020

August 20, 2020

| Notes | Annexure |
|--|---------------------|
| Members on email : 1. Primary Faculty of the Department 2. Visiting Professor in the Department | |
| 1. Courses to be offered in the academic year 2020-2021 | |
| 1.1 <u>Reported:</u> That the faculty members were requested to suggest, by email, the modified list of courses to be offered in Semester I and II-B, 2020-2021 based on the recent Senate decision on having the following semesters for the academic year 2020-21 as a special case - Semester I (online teaching), Semester II-A (online teaching) and Semester II-B (laboratory courses that require the physical presence of students). The Senate also allowed the 'split' of L-T-P structure of the course. 1.2 <u>Resolved:</u> The courses were finalized and the summary is given below – 1.2.1 The list of courses that were originally floated for Semester 1, 2020-2021 were considered. 1.2.2 The modified list of courses to be floated now in Sem 1, 2020-21 was finalized. 1.2.3 The spill over of the laboratory component of the courses from Sem 1, 2020-21 to Sem II-B, 2020-2021 were also finalized. 1.3 <u>Resolved:</u> Accordingly, and that the above modified list of courses were recommended to be floated. | 1 2 3 |

Ritu Kulshreshtha
Convener, DFB

Distribution
All Faculty (by email)

Courses originally floated for Semester 1, 2020-2021
(March 06, 2020)

Departmental Core Courses (DC)

| SI | Course Number | Course Title | L - T - P Structure | | | Credits | Course Coordinator | Slot |
|----|---------------|---|---------------------|---|---|---------|--------------------|------|
| | | | L | T | P | | | |
| 1 | BBL131 | Principles of Biochemistry | 3 | 0 | 3 | 4.5 | PM | D |
| 2 | BBL132 | General Microbiology | 3 | 0 | 3 | 4.5 | SS | F |
| 3 | BBL133 | Mass and Energy Balances in Biochemical Engineering | 3 | 0 | 0 | 3 | SN | H |
| 4 | BBL231 | Molecular Biology and Genetics | 3 | 0 | 3 | 4.5 | PS | D |
| 5 | BBL331 | Bioprocess Engineering | 3 | 0 | 0 | 3 | ZAS | B |
| 6 | BBP332 | Bioprocess Engineering Lab | 0 | 0 | 3 | 1.5 | ZAS | P |
| 7 | BBL731 | Bioseparation Engineering | 3 | 0 | 3 | 4.5 | RJ | C |
| 8 | BBL732 | Bioprocess Plant Design | 3 | 0 | 2 | 4 | TRS | B |
| 9 | BBL733 | Recombinant DNA Technology | 2 | 0 | 3 | 3.5 | RK | D |
| 10 | BBQ301 | Seminar Course – I | 0 | 0 | 2 | 1 | DS (HoD) | P |
| 11 | BBQ302 | Seminar Course - II | 0 | 0 | 2 | 1 | DS (HoD) | P |
| 12 | BBD351 | Design – NGU | 0 | 0 | 2 | 1 | AM | |
| 13 | BBD451 | Major Project Part 1 (BB1) | 0 | 0 | 6 | 3 | RE | |
| 14 | BBN101 | Introduction to Biochemical Engg | 0 | 0 | 2 | 1 | DS (HoD) | M |

Program Core Courses (PC)

| SI | Course Number | Course Title | L - T - P Structure | | | Credits | Course Coordinator | Slot |
|----|---------------|--|---------------------|---|----|---------|--------------------|------|
| | | | L | T | P | | | |
| 1 | BBL734 | Metabolic Regulation & Engg | 3 | 0 | 0 | 3 | AM | H |
| 2 | BBL735 | Genomics and Proteomics | 2 | 0 | 2 | 3 | IG | D |
| 3 | BBL737 | Instrumentation and Analytical Methods in Bioengineering | 2 | 0 | 2 | 3 | DS (HoD) | E |
| 4 | BBD851 | Major Project Part 1 (BB5) | 0 | 0 | 12 | 6 | RK | |
| 5 | BBD852 | Major Project Part 2 (BB5) | 0 | 0 | 28 | 14 | RK | |
| 6 | BBD853 | Major Project Part 1 (BB5) | 0 | 0 | 8 | 4 | RK | |
| 7 | BBD854 | Major Project Part 2 (BB5) | 0 | 0 | 32 | 16 | RK | |

Program Elective Courses (PE)

| SI | Course Number | Course Title | L - T - P Structure | | | Credits | Course Coordinator | Slot |
|----|---------------|-------------------------------|---------------------|---|---|---------|--------------------|------|
| | | | L | T | P | | | |
| 1 | BBL741 | Protein Science & Engineering | 3 | 0 | 0 | 3 | SM | H |
| 2 | BBL754 | Optics with Life Sciences | 3 | 0 | 0 | 3 | RE | F |

MSR/PhD Courses

| SI | Course Number | Course Title | L - T - P Structure | | | Credits | Course Coordinator | Slot |
|----|---------------|------------------------|---------------------|---|----|---------|--------------------|------|
| | | | L | T | P | | | |
| 1 | BED800 | Major Project | 0 | 0 | 80 | 40 | RJ | |
| 2 | BBD895 | Major Project | 0 | 0 | 72 | 36 | RJ | |
| 3 | BBL830 | Microbial Biochemistry | 3 | 0 | 0 | 3 | LED | J |

Modified list of courses to be floated in Semester 1, 2020-2021
(August 19, 2020)

Departmental Core Courses (DC)

| SI | Course Number | Course Title | L - T - P Structure | | | Credits | Course Coordinator | Slot |
|----|---------------|---|---------------------|---|---|---------|--------------------|------|
| | | | L | T | P | | | |
| 1 | BBL131 L | Principles of Biochemistry | 3 | 0 | 0 | 3 | PM | D |
| 2 | BBL132 L | General Microbiology | 3 | 0 | 0 | 3 | SS | F |
| 3 | BBL133 | Mass and Energy Balances in Biochemical Engineering | 3 | 0 | 0 | 3 | SN | H |
| 4 | BBL231 L | Molecular Biology and Genetics | 3 | 0 | 0 | 3 | PS | D |
| 5 | BBL331 | Bioprocess Engineering | 3 | 0 | 0 | 3 | ZAS | B |
| 6 | BBL731 L | Bioseparation Engineering | 3 | 0 | 0 | 3 | RJ | C |
| 7 | BBL732 | Bioprocess Plant Design | 3 | 0 | 2 | 4 | TRS | B |
| 8 | BBL733 L | Recombinant DNA Technology | 2 | 0 | 0 | 2 | RK | D |
| 9 | BBQ301 | Seminar Course – I | 0 | 0 | 2 | 1 | DS (HoD) | P |
| 10 | BBQ302 | Seminar Course - II | 0 | 0 | 2 | 1 | DS (HoD) | P |
| 11 | BBD351 | Design – NGU | 0 | 0 | 2 | 1 | AM | |
| 12 | BBD451 | Major Project Part 1 (BB1) | 0 | 0 | 6 | 3 | IG | |
| 13 | BBN101 | Introduction to Biochemical Engg | 0 | 0 | 2 | 1 | DS (HoD) | M |

Program Core Courses (PC)

| SI | Course Number | Course Title | L - T - P Structure | | | Credits | Course Coordinator | Slot |
|----|---------------|--|---------------------|---|----|---------|--------------------|------|
| | | | L | T | P | | | |
| 1 | BBL734 | Metabolic Regulation & Engg | 3 | 0 | 0 | 3 | AM | H |
| 2 | BBL735 L | Genomics and Proteomics | 2 | 0 | 0 | 2 | IG | D |
| 3 | BBL737 L | Instrumentation and Analytical Methods in Bioengineering | 2 | 0 | 0 | 2 | DS (HoD) | E |
| 4 | BBD851 | Major Project Part 1 (BB5) | 0 | 0 | 12 | 6 | RK | |
| 5 | BBD852 | Major Project Part 2 (BB5) | 0 | 0 | 28 | 14 | RK | |

Program Elective Courses (PE)

| SI | Course Number | Course Title | L - T - P Structure | | | Credits | Course Coordinator | Slot |
|----|---------------|-------------------------------|---------------------|---|---|---------|--------------------|------|
| | | | L | T | P | | | |
| 1 | BBL741 | Protein Science & Engineering | 3 | 0 | 0 | 3 | SM | H |
| 2 | BBL754 | Optics with Life Sciences | 3 | 0 | 0 | 3 | RE | F |

MSR/PhD Courses

| SI | Course Number | Course Title | L - T - P Structure | | | Credits | Course Coordinator | Slot |
|----|---------------|---------------------------|---------------------|---|----|---------|--------------------|------|
| | | | L | T | P | | | |
| 1 | BED800 | Major Project | 0 | 0 | 80 | 40 | RJ | |
| 2 | BBD895 | Major Project | 0 | 0 | 72 | 36 | RJ | |
| 3 | BBL830 | Microbial Biochemistry | 3 | 0 | 0 | 3 | LED | J |
| 4 | BBL850 L | Advanced Biochemical Engg | 3 | 0 | 0 | 3 | KJ | B |

Color legend

- Blue color – courses where 'L-T' component alone is being retained and 'P' component will be done later in Sem II-B, 2020-2021
- Green color – course that has a new Coordinator now
- Yellow color – course not floated earlier, but has been recommended now to be offered by the Visiting Professor

Spill over of courses from Semester 1, 2020-2021 to Semester II-B, 2020-2021
(August 19, 2020)

Departmental Core Courses (DC)

| SI | Course Number | Course Title | L - T - P Structure | | | Credits | Course Coordinator | Slot |
|----|---------------|--------------------------------|---------------------|---|---|---------|--------------------|------|
| | | | L | T | P | | | |
| 1 | BBL131 P | Principles of Biochemistry | 0 | 0 | 3 | 1.5 | PM | D |
| 2 | BBL132 P | General Microbiology | 0 | 0 | 3 | 1.5 | SS | F |
| 3 | BBL231 P | Molecular Biology and Genetics | 0 | 0 | 3 | 1.5 | PS | D |
| 4 | BBP332 | Bioprocess Engineering Lab | 0 | 0 | 3 | 1.5 | ZAS | P |
| 5 | BBL731 P | Bioseparation Engineering | 0 | 0 | 3 | 1.5 | RJ | C |
| 6 | BBL733 P | Recombinant DNA Technology | 0 | 0 | 3 | 1.5 | RK | D |

Program Core Courses (PC)

| SI | Course Number | Course Title | L - T - P Structure | | | Credits | Course Coordinator | Slot |
|----|---------------|--|---------------------|---|---|---------|--------------------|------|
| | | | L | T | P | | | |
| 1 | BBL735 P | Genomics and Proteomics | 0 | 0 | 2 | 1 | IG | D |
| 2 | BBL737 P | Instrumentation and Analytical Methods in Bioengineering | 0 | 0 | 2 | 1 | DS (HoD) | E |

MSR/PhD Courses

| SI | Course Number | Course Title | L - T - P Structure | | | Credits | Course Coordinator | Slot |
|----|---------------|---------------------------|---------------------|---|---|---------|--------------------|------|
| | | | L | T | P | | | |
| 1 | BBL850 P | Advanced Biochemical Engg | 0 | 0 | 4 | 2 | KJ | B |