বাংলাদেশ কারিগরি শিক্ষা বোর্ড
আগারগাঁও, শেরেবাংলা নগর
ঢাকা-১২০৭
www.bteb.gov.bd



স্মারক নং ঃ- ৫৭.১৭.০০০০.২০১.০৫.২১.০৪

তারিখ: ০৬ ভাদ্র, ১৪৩০ বঙ্গাব্দ
২১ আগস্ট, ২০২৩ খ্রিষ্টাব্দ

বিজ্ঞপ্তি

অধ্যক্ষ

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বিষয়ঃ ডিপ্লোমা ইন ইঞ্জিনিয়ারিং শিক্ষাক্রমে সরাসরি ৪র্থ পর্বের শূণ্য আসনে ভর্তিকৃত শিক্ষার্থীদের Make-Up কোর্স সংক্রান্ত বিজ্ঞপ্তি।

উপর্যুক্ত বিষয়ের পরিপ্রেক্ষিতে সংশ্লিষ্ট সকলের সদয় অবগতির জন্য জানানো যাচ্ছে যে, এইচএসসি (ভোকেশনাল) থেকে উত্তীর্ণ ডিপ্লোমা ইন ইঞ্জিনিয়ারিং শিক্ষাক্রমে সরাসরি ৪র্থ পর্বের শূণ্য আসনে ভর্তিকৃত শিক্ষার্থীদের টেকনোলজিভিত্তিক Make-Up বিষয়সমূহ পরবর্তী প্রয়োজনীয় কার্যাথে প্রকাশ করা হলো।

সংযুক্তিঃ

১। Make-up কোর্স এর কোর্স স্ট্রাকচার।

২১-৮-২৩
(প্রকৌশলী মোঃ রকিব উল্লাহ)
পরিচালক (কারিকুলাম)
বাংলাদেশ কারিগরি শিক্ষা বোর্ড
ঢাকা-১২০৭

স্মারক নং ঃ- ৫৭.১৭.০০০০.২০১.০৫.২১.০০৪

তারিখ: ০৬ ভাদ্র, ১৪৩০ বঙ্গাব্দ
২১ আগস্ট, ২০২৩ খ্রিষ্টাব্দ

সদয় অবগতি ও প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য অনুলিপি প্রেরিত হলো (জ্যেষ্ঠ্যতার ভিত্তিতে নয়):

১। সিনিয়র সচিব, কারিগরি ও মাদ্রাসা শিক্ষা বিভাগ, শিক্ষা মন্ত্রণালয়, ঢাকা।
(দৃঃ আঃ অতিরিক্ত সচিব (কারিগরি অনুবিভাগ), কারিগরি ও মাদ্রাসা শিক্ষা বিভাগ, শিক্ষা মন্ত্রণালয়, ঢাকা।)
২। মহাপরিচালক, কারিগরি শিক্ষা অধিদপ্তর, ঢাকা।
(দৃঃ আঃ পরিচালক, পলিটেকনিক (পিআইডব্লিউ), কারিগরি শিক্ষা অধিদপ্তর, ঢাকা।)
৩। উপসচিব (কারিগরি-৩), কারিগরি ও মাদ্রাসা শিক্ষা বিভাগ, শিক্ষা মন্ত্রণালয়, ঢাকা।
৪। সচিব মহোদয়ের একান্ত সচিব, কারিগরি ও মাদ্রাসা শিক্ষা বিভাগ, শিক্ষা মন্ত্রণালয়, ঢাকা।
৫-৮। সচিব/পরিচালক (আইটিসি)/পরীক্ষা নিয়ন্ত্রক/পরিদর্শক, বাংলাদেশ কারিগরি শিক্ষা বোর্ড, ঢাকা।
৯। সিস্টেম এনালিস্ট, বাংলাদেশ কারিগরি শিক্ষা বোর্ড, ঢাকা। (বিজ্ঞপ্তিটি ওয়েবসাইটে প্রকাশের অনুরোধসহ)
১০। চেয়ারম্যান মহোদয়ের ব্যক্তিগত কর্মকর্তা।
১১। অফিস নথি।

২২/৮/২৩
(রূপক কান্তি বিশ্বাস)
কারিকুলাম বিশেষজ্ঞ (ডিপ্লোমা)
বাংলাদেশ কারিগরি শিক্ষা বোর্ড
ঢাকা-১২০৭

HSC (Vocational) Passed Students admitted into 4th semester Diploma in Engineering have to complete the following Makeup Subjects: (Probidhan-2022)

Technology Name: Architecture (61)

Makeup Subjects of **Architecture Technology** coming from **Civil Drafting Trade** / **Building Construction & Maintenance Trade** / **Industrial Wood Working Trade** are given below:

Sl.	Subject code	Subject Name	Subject Semester in Course Structure	Makeup course semester
01.	26111	Creativity & Concept Development	1st	4th
02.	26121	Architectural Design-1	2nd	4th
03.	26134	Climatology	3rd	5th
04.	26131	Architectural Design-2	3rd	5th
05.	26132	Architecture Graphics	3rd	6th

Technology Name: Automobile (62)

Makeup subjects of **Automobile Technology** coming from **Automobile/Refrigeration & Air Conditioning/Machine Tool Operation & Maintenance/Welding & Fabrication Trade** are given below

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26211	Automobile Fundamentals	1st	4th
2.	26221	Automotive Engine System-1	2nd	4th
3.	26231	Automotive Engine System-2	3rd	5th
4.	27012	Machine Shop Practice	3rd	5th

Technology Name: Chemical (63)

Makeup subjects of **Chemical Technology** coming from **Agro Machinery Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26311	Chemical Engineering Fundamentals	1st	4th

2.	26312	Safety in Chemical Industry	1st	4th
3.	26321	Basic Stoichiometry	2nd	5th
4.	26331	Chemical Engineering Operation-1	3rd	5th
5.	26332	Industrial Chemistry	3rd	6th

Technology Name: Civil (64)

Makeup subjects of **Civil Technology** coming from **Civil Drafting Trade** / from **Building Construction & Maintenance Trade /Industrial Wood Working Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26411	Civil Engineering Materials	1st	4th
2.	26421	Civil Engineering Drawing	2nd	4th
3.	26432	Sueveying-1	3rd	5th
4.	26433	Construction Process-1	3rd	5th
5.	26431	Structural Mechanics	3rd	6th

Technology Name: Civil (Wood) (65)

Makeup subjects of **Civil (Wood) Technology** coming from **Civil Drafting/Building Construction & Maintenance/Industrial Wood Working Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26411	Civil Engineering Materials	1st	4th
2.	26421	Civil Engineering Drawing	2nd	4th
3.	26432	Sueveying-1	3rd	5th
4.	26433	Construction Process-1	3rd	5th
5.	26431	Structural Mechanics	3rd	6th

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Technology Name: Electrical (67)

Makeup subjects of **Electrical Technology** coming from **Electrical Works and Maintenance/Electronics Controls and Communication Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26712	Eelctrical Enginering Materials	1st	4th
2.	26722	Electrical Engineering Drawing	2nd	4th
3.	26732	Electrical Appliance	3rd	5th
4.	26833	Industrial Electronics	3rd	5th

Technology Name: Electronics (68)

Makeup subjects of **Electronics Technology** coming from **Electrical Works and Maintenance/Electronics Controls and Communication Trade** are given below:

Sl	Subject Code	Subj ect Name	Subject's Semester in Course structure	Makeup Course Semester
1.	21011	Engineering Drawing	1st	4th
2.	26721	Electrical Circuit-1	2nd	4th
3.	26831	Digital Electronics-1	3rd	5th
4.	26832	Power Electronics	3rd	5th
5.	26731	Electrical Circuit-2	3rd	6th

Technology Name: Food (69)

Makeup subjects of **Food Technology** coming from **Agro Machinery/Fish Culture and Breeding/Poultry Rearing and Farming Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26911	Food Engineering Fundamentals	1st	4th
2.	26912	Food Safety & Hygiene Management	1st	4th
3.	26921	Food Science & Nutrition	2nd	5th

4.	26922	Food Plant Layout & Design	2nd	5th
5.	26932	Food Industrial Chemistry	3rd	6th

Technology Name: Mechanical (70)

Makeup subjects of **Mechanical Technology** coming from **Machine Tool Operation & Maintenance / Refrigeration & Air Conditioning / Welding and Fabrication /Automobile Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	27012	Machine Shop Practice-1	1st	4th
2.	27021	Mechanical Engineering Drawing	2nd	4th
3.	27032	Machine Shop Practice-2	3rd	5th
4.	27231	RAC Cycle & Component	3rd	5th

Technology Name: Power (71)

Makeup subjects of **Power Technology** coming from **Automobile Trade /Machine Tool Operation & Maintenance/ Refrigeration & Air Conditioning/ Agro Machinery** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	27111	Power Engineering Fundamentals	1st	4th
2.	27121	Power Equipment Management & Safety	2nd	4th
3.	27131	Engineering Thermodynamics	3rd	5th
4.	27231	RAC Cycle & Component	3rd	5th
5.	27012	Machine Shop Practice-1	3rd	5th

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Technology Name: RAC (72)

Makeup subjects of **Refrigeration & Air Conditioning Technology** coming from **Automobile/Refrigeration & Air Conditioning/Machine Tool Operation & Maintenance/Welding & Fabrication Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	27211	RAC Fundamental	1st	4th
2.	27031	Mechanical Engineering Materials	2nd	4th
3.	26211	Automobile Fundamentals	3rd	4th
4.	27131	Engineering Thermodynamics	3rd	5th
5.	27231	RAC Cycle & Component	3rd	5th

Technology Name: Ceramic (76)

Makeup subjects of **Ceramic Technology** coming from **Machine Tool operation & Maintenance Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	27611	Geological Engineering	1st	4th
2.	27621	Ceramic Model Making	2nd	4th
3.	27631	Model and Mold Fabrication-1	3rd	5th
4.	27632	Ceramic Engineering Materials-2	3rd	5th
5.	27633	Ceramic Plants and Equipment	3rd	6th

Technology Name: Glass (77)

Makeup subjects of **Glass Technology** coming from **Machine Tool operation & Maintenance Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester

1.	27711	Glass Engineering Materials-1	1st	4th
2.	27721	Glass Engineering Materials-2	2nd	4th
3.	27731	Glass Mold and Die-1	3rd	5th
4.	27732	Glass Plant and Equipment	3rd	5th
5.	27733	Preparation of Glass Raw Materials	3rd	5th

Technology Name: Surveying (78)

Makeup subjects of **Surveying Technology** coming from **Civil Drafting/Building Construction& Maintenance/Industrial Wood Working Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26411	Civil Engineering Materials	1st	4th
2.	27821	Basic Surveying	2nd	4th
3.	27832	Survey CAD	3rd	5th
4.	27831	Leveling	3rd	5th
5.	27834	Geodetic Surveying	3rd	6th

Technology Name: Marine (79)

Makeup subjects of **Shipbuilding Technology** coming from **Automobile/Refrigeration & Air Conditioning/Machine Tool Operation & Maintenance/Welding & Fabrication Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	21011	Engineering Drawing	1st	4th
2.	27931	Marine IC Engine-1	3rd	4th
3.	28021	General Ship Knowledge	2nd	5th
4.	27041	Engineering Mechanics	3rd	5th

5.	27131	Engineering Thermodynamics	3rd	6th

Technology Name: Shipbuilding (80)

Makeup subjects of **Shipbuilding Technology** coming from **Automobile/Refrigeration & Air Conditioning/Machine Tool Operation & Maintenance/Welding & Fabrication Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	21011	Engineering Drawing	1st	4th
2.	27931	Marine IC Engine-1	3rd	4th
3.	28021	General Ship Knowledge	2nd	5th
4.	27041	Engineering Mechanics	3rd	5th
5.	27131	Engineering Thermodynamics	3rd	6th

Technology Name: Computer Science & Technology (85)

Makeup subjects of **Computer Science & Technology** coming from **Computer Operation & Maintenance Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	21011	Engineering Drawing	1st	4th
2.	28522	Computer Graphic Design-1	2nd	4th
3.	28521	Python Programming	2nd	5th
4.	28532	Computer Graphic Design-2	3rd	5th
5.	28532	Application Development Using Python	3rd	6th

Technology Name: Electromedical (86)

Makeup subjects of **Electromedical Technology** coming from **Electrical Works and Maintenance/Electronics controls and Communication Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	28611	Human Anatomy and Physiology	1st	4th
2.	28621	Basic Biomedical Engineering	2nd	4th
3.	28631	Medical Transducer and Sensors	3rd	5th
4.	26731	Electrical Circuit-2	3rd	5th
5.	28632	Operating Room Equipment	3rd	6th

Technology Name: Construction (88)

Makeup subjects of **Construction Technology** coming from **Drafting Civil Trade / Building Construction & Maintenance Trade /Industrial Wood Working Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26411	Civil Engineering Materials	1st	4th
2.	26421	Civil engineering Drawing	2nd	4th
3.	26431	Structural Mechanics	3rd	5th
4.	26432	Surveying-1	3rd	5th
5.	28831	Construction methodology-1	3rd	6th

Technology Name: Environmental (90)

Makeup subjects of **Environmental Technology** coming from **Building Construction & Maintenance Trade /Industrial Wood Working Trade/ Drafting Civil Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	29011	Basic Environmental Engineering	1st	4th
2.	26421	Civil Engineering Drawing	2nd	4th
3.	26432	Surveying-1	3rd	5th
4.	26433	Construction Process-1	3rd	5th

5.	29031	Water Quality Engineering	3rd	4th

Technology Name: Mechatronics (92)

Makeup subjects of **Mechatronics Technology** coming from **Automobile/Refrigeration & Air Conditioning/Machine Tool Operation & Maintenance/Welding & Fabrication Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	21011	Engineering Drawing	1st	4th
2.	27012	Machine Shop Practice-1	2nd	4th
3.	27021	Mechanical Engineering Drawing	2nd	5th
4.	26821	Electronics Devices and Circuits	3rd	5th
5.	29232	Basic Mechatronics	3rd	6th

Technology Name: Telecommunication (94)

Makeup subjects of **Telecommunication Technology** coming from **General Electrical Works/Electrical Maintenance Works/General Electronics and Audio Video System Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	29411	Basics of Telecommunication	1st	4th
2.	26721	Electrical circuit-1	2nd	4th
3.	29431	Telecom Workshop and Outside Plant	3rd	5th
4	26821	Electronic Device and Circuits	3rd	5th
5.	26731	Electrical circuit-2	3rd	6th

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Technology Name: Graphic Design (95)

Makeup subjects of **Graphic Design Technology** coming from **Clothing & Garments Finising/ Computer Operation and maintenance / Machine Tool operation and Maintenance Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	29511	Printing Basics	1st	3rd
2.	29521	Offset Machine Operation	2nd	4th
3.	29531	Graphic Materials	3rd	5th
4.	29631	Graphic Design-1	3rd	5th
5.	29632	Basic Photography	3rd	5th

Technology Name: Printing (96)

Makeup subjects of **Graphic Design Technology** coming from **Clothing & Garments Finising/ Computer Operation and maintenance / Machine Tool Operation and Maintenance Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	29511	Printing Basics	1st	3rd
2.	29521	Offset Machine Operation	2nd	4th
3.	29531	Graphic Materials	3rd	5th
4.	29631	Graphic Design-1	3rd	5th
5.	29632	Basic Photography	3rd	5th

20/08/23

(Rupak Kanti Biswas)
Curriculum Specialist (Diploma)
Bangladesh Technical Education Board
Dhaka-1207

20.8.23

(Engr. Md. Rakib Ullah)
Director (Curriculum)
Bangladesh Technical Education Board
Dhaka-1207

HSC (Vocational) Passed Students admitted into 4th semester Diploma in Engineering have to complete the following Makeup Subjects: (Probidhan-2022)

Technology Name: Architecture (61)

Makeup Subjects of **Architecture Technology** coming from **Civil Drafting Trade** / **Building Construction & Maintenance Trade** / **Industrial Wood Working Trade** are given below:

Sl.	Subject code	Subject Name	Subject Semester in Course Structure	Makeup course semester
01.	26111	Creativity & Concept Development	1st	4th
02.	26121	Architectural Design-1	2nd	4th
03.	26134	Climatology	3rd	5th
04.	26131	Architectural Design-2	3rd	5th
05.	26132	Architecture Graphics	3rd	6th

Technology Name: Automobile (62)

Makeup subjects of **Automobile Technology** coming from **Automobile/Refrigeration & Air Conditioning/Machine Tool Operation & Maintenance/Welding & Fabrication Trade** are given below

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26211	Automobile Fundamentals	1st	4th
2.	26221	Automotive Engine System-1	2nd	4th
3.	26231	Automotive Engine System-2	3rd	5th
4.	27012	Machine Shop Practice	3rd	5th

Technology Name: Chemical (63)

Makeup subjects of **Chemical Technology** coming from **Agro Machinery Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26311	Chemical Engineering Fundamentals	1st	4th

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2.	26312	Safety in Chemical Industry	1st	4th
3.	26321	Basic Stoichiometry	2nd	5th
4.	26331	Chemical Engineering Operation-1	3rd	5th
5.	26332	Industrial Chemistry	3rd	6th

Technology Name: Civil (64)

Makeup subjects of **Civil Technology** coming from **Civil Drafting Trade** / from **Building Construction & Maintenance Trade /Industrial Wood Working Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26411	Civil Engineering Materials	1st	4th
2.	26421	Civil Engineering Drawing	2nd	4th
3.	26432	Sueveying-1	3rd	5th
4.	26433	Construction Process-1	3rd	5th
5.	26431	Structural Mechanics	3rd	6th

Technology Name: Civil (Wood) (65)

Makeup subjects of **Civil (Wood) Technology** coming from **Civil Drafting/Building Construction & Maintenance/Industrial Wood Working Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26411	Civil Engineering Materials	1st	4th
2.	26421	Civil Engineering Drawing	2nd	4th
3.	26432	Sueveying-1	3rd	5th
4.	26433	Construction Process-1	3rd	5th
5.	26431	Structural Mechanics	3rd	6th

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Technology Name: Electrical (67)

Makeup subjects of **Electrical Technology** coming from **Electrical Works and Maintenance/Electronics Controls and Communication Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26712	Eelctrical Enginering Materials	1st	4th
2.	26722	Electrical Engineering Drawing	2nd	4th
3.	26732	Electrical Appliance	3rd	5th
4.	26833	Industrial Electronics	3rd	5th

Technology Name: Electronics (68)

Makeup subjects of **Electronics Technology** coming from **Electrical Works and Maintenance/Electronics Controls and Communication Trade** are given below:

Sl	Subject Code	Subj ect Name	Subject's Semester in Course structure	Makeup Course Semester
1.	21011	Engineering Drawing	1st	4th
2.	26721	Electrical Circuit-1	2nd	4th
3.	26831	Digital Electronics-1	3rd	5th
4.	26832	Power Electronics	3rd	5th
5.	26731	Electrical Circuit-2	3rd	6th

Technology Name: Food (69)

Makeup subjects of **Food Technology** coming from **Agro Machinery/Fish Culture and Breeding/Poultry Rearing and Farming Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26911	Food Engineering Fundamentals	1st	4th
2.	26912	Food Safety & Hygiene Management	1st	4th
3.	26921	Food Science & Nutrition	2nd	5th

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4.	26922	Food Plant Layout & Design	2nd	5th
5.	26932	Food Industrial Chemistry	3rd	6th

Technology Name: Mechanical (70)

Makeup subjects of **Mechanical Technology** coming from **Machine Tool Operation & Maintenance / Refrigeration & Air Conditioning / Welding and Fabrication /Automobile Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	27012	Machine Shop Practice-1	1st	4th
2.	27021	Mechanical Engineering Drawing	2nd	4th
3.	27032	Machine Shop Practice-2	3rd	5th
4.	27231	RAC Cycle & Component	3rd	5th

Technology Name: Power (71)

Makeup subjects of **Power Technology** coming from **Automobile Trade /Machine Tool Operation & Maintenance/ Refrigeration & Air Conditioning/ Agro Machinery** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	27111	Power Engineering Fundamentals	1st	4th
2.	27121	Power Equipment Management & Safety	2nd	4th
3.	27131	Engineering Thermodynamics	3rd	5th
4.	27231	RAC Cycle & Component	3rd	5th
5.	27012	Machine Shop Practice-1	3rd	5th

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Technology Name: RAC (72)

Makeup subjects of **Refrigeration & Air Conditioning Technology** coming from **Automobile/Refrigeration & Air Conditioning/Machine Tool Operation & Maintenance/Welding & Fabrication Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	27211	RAC Fundamental	1st	4th
2.	27031	Mechanical Engineering Materials	2nd	4th
3.	26211	Automobile Fundamentals	3rd	4th
4.	27131	Engineering Thermodynamics	3rd	5th
5.	27231	RAC Cycle & Component	3rd	5th

Technology Name: Ceramic (76)

Makeup subjects of **Ceramic Technology** coming from **Machine Tool operation & Maintenance Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	27611	Geological Engineering	1st	4th
2.	27621	Ceramic Model Making	2nd	4th
3.	27631	Model and Mold Fabrication-1	3rd	5th
4.	27632	Ceramic Engineering Materials-2	3rd	5th
5.	27633	Ceramic Plants and Equipment	3rd	6th

Technology Name: Glass (77)

Makeup subjects of **Glass Technology** coming from **Machine Tool operation & Maintenance Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester

1.	27711	Glass Engineering Materials-1	1st	4th
2.	27721	Glass Engineering Materials-2	2nd	4th
3.	27731	Glass Mold and Die-1	3rd	5th
4.	27732	Glass Plant and Equipment	3rd	5th
5.	27733	Preparation of Glass Raw Materials	3rd	5th

Technology Name: Surveying (78)

Makeup subjects of **Surveying Technology** coming from **Civil Drafting/Building Construction& Maintenance/Industrial Wood Working Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26411	Civil Engineering Materials	1st	4th
2.	27821	Basic Surveying	2nd	4th
3.	27832	Survey CAD	3rd	5th
4.	27831	Leveling	3rd	5th
5.	27834	Geodetic Surveying	3rd	6th

Technology Name: Marine (79)

Makeup subjects of **Shipbuilding Technology** coming from **Automobile/Refrigeration & Air Conditioning/Machine Tool Operation & Maintenance/Welding & Fabrication Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	21011	Engineering Drawing	1st	4th
2.	28021	General Ship Knowledge	2nd	4th
3.	27931	Marine IC Engine-1	3rd	5th
4.	27041	Engineering Mechanics	3rd	5th

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5.	27131	Engineering Thermodynamics	3rd	6th

Technology Name: Shipbuilding (80)

Makeup subjects of **Shipbuilding Technology** coming from **Automobile/Refrigeration & Air Conditioning/Machine Tool Operation & Maintenance/Welding & Fabrication Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	21011	Engineering Drawing	1st	4th
2.	28021	General Ship Knowledge	2nd	4th
3.	27931	Marine IC Engine-1	3rd	5th
4.	27041	Engineering Mechanics	3rd	5th
5.	27131	Engineering Thermodynamics	3rd	6th

Technology Name: Computer Science & Technology (85)

Makeup subjects of **Computer Science & Technology** coming from **Computer Operation & Maintenance Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	21011	Engineering Drawing	1st	4th
2.	28522	Computer Graphic Design-1	2nd	4th
3.	28521	Python Programming	2nd	5th
4.	28532	Computer Graphic Design-2	3rd	5th
5.	28532	Application Development Using Python	3rd	6th

Technology Name: Electromedical (86)

Makeup subjects of **Electromedical Technology** coming from **Electrical Works and Maintenance/Electronics controls and Communication Trade** are given below:

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Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	28611	Human Anatomy and Physiology	1st	4th
2.	28621	Basic Biomedical Engineering	2nd	4th
3.	28631	Medical Transducer and Sensors	3rd	5th
4.	26731	Electrical Circuit-2	3rd	5th
5.	28632	Operating Room Equipment	3rd	6th

Technology Name: Construction (88)

Makeup subjects of **Construction Technology** coming from **Drafting Civil Trade / Building Construction & Maintenance Trade /Industrial Wood Working Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	26411	Civil Engineering Materials	1st	4th
2.	26421	Civil engineering Drawing	2nd	4th
3.	26431	Structural Mechanics	3rd	5th
4.	26432	Surveying-1	3rd	5th
5.	28831	Construction methodology-1	3rd	6th

Technology Name: Environmental (90)

Makeup subjects of **Environmental Technology** coming from **Building Construction & Maintenance Trade /Industrial Wood Working Trade/ Drafting Civil Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	29011	Basic Environmental Engineering	1st	4th
2.	26421	Civil Engineering Drawing	2nd	4th
3.	26432	Surveying-1	3rd	5th
4.	26433	Construction Process-1	3rd	5th

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5.	29031	Water Quality Engineering	3rd	4th

Technology Name: Mechatronics (92)

Makeup subjects of **Mechatronics Technology** coming from **Automobile/Refrigeration & Air Conditioning/Machine Tool Operation & Maintenance/Welding & Fabrication Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	21011	Engineering Drawing	1st	4th
2.	27012	Machine Shop Practice-1	2nd	4th
3.	27021	Mechanical Engineering Drawing	2nd	5th
4.	26821	Electronics Devices and Circuits	3rd	5th
5.	29232	Basic Mechatronics	3rd	6th

Technology Name: Telecommunication (94)

Makeup subjects of **Telecommunication Technology** coming from **General Electrical Works/Electrical Maintenance Works/General Electronics and Audio Video System Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	29411	Basics of Telecommunication	1st	4th
2.	26721	Electrical circuit-1	2nd	4th
3.	29431	Telecom Workshop and Outside Plant	3rd	5th
4	26821	Electronic Device and Circuits	3rd	5th
5.	26731	Electrical circuit-2	3rd	6th

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Technology Name: Graphic Design (95)

Makeup subjects of **Graphic Design Technology** coming from **Clothing & Garments Finising/ Computer Operation and maintenance / Machine Tool operation and Maintenance Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	29511	Printing Basics	1st	4th
2.	29521	Offset Machine Operation	2nd	4th
3.	29531	Graphic Materials	3rd	5th
4.	29631	Graphic Design-1	3rd	5th
5.	29632	Basic Photography	3rd	5th

Technology Name: Printing (96)

Makeup subjects of **Graphic Design Technology** coming from **Clothing & Garments Finising/ Computer Operation and maintenance / Machine Tool Operation and Maintenance Trade** are given below:

Sl	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
1.	29511	Printing Basics	1st	4th
2.	29521	Offset Machine Operation	2nd	4th
3.	29531	Graphic Materials	3rd	5th
4.	29631	Graphic Design-1	3rd	5th
5.	29632	Basic Photography	3rd	5th

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