



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



স্মারক নং ৪- ৫৭.১৭.০০০০.২০১.০৫.২১.০৪

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

বিজ্ঞপ্তি

অধ্যক্ষ

----- ।

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 কার্যার্থে 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 ৪- 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 (জ্যেষ্ঠতার 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	1 st	4 th
02.	26121	Architectural Design-1	2 nd	4 th
03.	26134	Climatology	3 rd	5 th
04.	26131	Architectural Design-2	3 rd	5 th
05.	26132	Architecture Graphics	3 rd	6 th

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	1 st	4 th
2.	26221	Automotive Engine System-1	2 nd	4 th
3.	26231	Automotive Engine System-2	3 rd	5 th
4.	27012	Machine Shop Practice	3 rd	5 th

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	1 st	4 th

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

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	1 st	4 th
2.	26421	Civil Engineering Drawing	2 nd	4 th
3.	26432	Sueveying-1	3 rd	5 th
4.	26433	Construction Process-1	3 rd	5 th
5.	26431	Structural Mechanics	3 rd	6 th

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	1 st	4 th
2.	26421	Civil Engineering Drawing	2 nd	4 th
3.	26432	Sueveying-1	3 rd	5 th
4.	26433	Construction Process-1	3 rd	5 th
5.	26431	Structural Mechanics	3 rd	6 th

[Handwritten signature]
20/08/23

[Handwritten signature]
20/08/23

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	Electrical Engineering Materials	1 st	4 th
2.	26722	Electrical Engineering Drawing	2 nd	4 th
3.	26732	Electrical Appliance	3 rd	5 th
4.	26833	Industrial Electronics	3 rd	5 th

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

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	1 st	4 th
2.	26912	Food Safety & Hygiene Management	1 st	4 th
3.	26921	Food Science & Nutrition	2 nd	5 th

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

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	1 st	4 th
2.	27021	Mechanical Engineering Drawing	2 nd	4 th
3.	27032	Machine Shop Practice-2	3 rd	5 th
4.	27231	RAC Cycle & Component	3 rd	5 th

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	1 st	4 th
2.	27121	Power Equipment Management & Safety	2 nd	4 th
3.	27131	Engineering Thermodynamics	3 rd	5 th
4.	27231	RAC Cycle & Component	3 rd	5 th
5.	27012	Machine Shop Practice-1	3 rd	5 th

Handwritten signature and date: 20/08/23

Handwritten signature and date: 20/08/23

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	1 st	4 th
2.	27031	Mechanical Engineering Materials	2 nd	4 th
3.	26211	Automobile Fundamentals	3 rd	4 th
4.	27131	Engineering Thermodynamics	3 rd	5 th
5.	27231	RAC Cycle & Component	3 rd	5 th

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	1 st	4 th
2.	27621	Ceramic Model Making	2 nd	4 th
3.	27631	Model and Mold Fabrication-1	3 rd	5 th
4.	27632	Ceramic Engineering Materials-2	3 rd	5 th
5.	27633	Ceramic Plants and Equipment	3 rd	6 th

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

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	1 st	4 th
2.	27821	Basic Surveying	2 nd	4 th
3.	27832	Survey CAD	3 rd	5 th
4.	27831	Leveling	3 rd	5 th
5.	27834	Geodetic Surveying	3 rd	6 th

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	1 st	4 th
2.	27931	Marine IC Engine-1	3 rd	4 th
3.	28021	General Ship Knowledge	2 nd	5 th
4.	27041	Engineering Mechanics	3 rd	5 th

5.	27131	Engineering Thermodynamics	3 rd	6 th
----	-------	----------------------------	-----------------	-----------------

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	1 st	4 th
2.	27931	Marine IC Engine-1	3 rd	4 th
3.	28021	General Ship Knowledge	2 nd	5 th
4.	27041	Engineering Mechanics	3 rd	5 th
5.	27131	Engineering Thermodynamics	3 rd	6 th

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	1 st	4 th
2.	28522	Computer Graphic Design-1	2 nd	4 th
3.	28521	Python Programming	2 nd	5 th
4.	28532	Computer Graphic Design-2	3 rd	5 th
5.	28532	Application Development Using Python	3 rd	6 th

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	1 st	4 th
2.	28621	Basic Biomedical Engineering	2 nd	4 th
3.	28631	Medical Transducer and Sensors	3 rd	5 th
4.	26731	Electrical Circuit-2	3 rd	5 th
5.	28632	Operating Room Equipment	3 rd	6 th

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	1 st	4 th
2.	26421	Civil engineering Drawing	2 nd	4 th
3.	26431	Structural Mechanics	3 rd	5 th
4.	26432	Surveying-1	3 rd	5 th
5.	28831	Construction methodology-1	3 rd	6 th

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	1 st	4 th
2.	26421	Civil Engineering Drawing	2 nd	4 th
3.	26432	Surveying-1	3 rd	5 th
4.	26433	Construction Process-1	3 rd	5 th

5.	29031	Water Quality Engineering	3 rd	4 th
----	-------	---------------------------	-----------------	-----------------

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	1 st	4 th
2.	27012	Machine Shop Practice-1	2 nd	4 th
3.	27021	Mechanical Engineering Drawing	2 nd	5 th
4.	26821	Electronics Devices and Circuits	3 rd	5 th
5.	29232	Basic Mechatronics	3 rd	6 th

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	1 st	4 th
2.	26721	Electrical circuit-1	2 nd	4 th
3.	29431	Telecom Workshop and Outside Plant	3 rd	5 th
4	26821	Electronic Device and Circuits	3 rd	5 th
5.	26731	Electrical circuit-2	3 rd	6 th

20/08/23

20-8-23

Technology Name: Graphic Design (95)

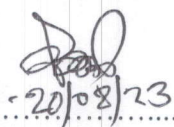
Makeup subjects of **Graphic Design Technology** coming from **Clothing & Garments Finising/**
Computer Operation and maintenance / Machine Tool operation and Maintenance Trade
are given below:

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

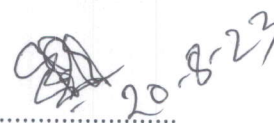
Technology Name: Printing (96)

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	1 st	3 rd
2.	29521	Offset Machine Operation	2 nd	4 th
3.	29531	Graphic Materials	3 rd	5 th
4.	29631	Graphic Design-1	3 rd	5 th
5.	29632	Basic Photography	3 rd	5 th


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	1 st	4 th
02.	26121	Architectural Design-1	2 nd	4 th
03.	26134	Climatology	3 rd	5 th
04.	26131	Architectural Design-2	3 rd	5 th
05.	26132	Architecture Graphics	3 rd	6 th

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	1 st	4 th
2.	26221	Automotive Engine System-1	2 nd	4 th
3.	26231	Automotive Engine System-2	3 rd	5 th
4.	27012	Machine Shop Practice	3 rd	5 th

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	1 st	4 th

21.08.23

21.8.23

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

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	1 st	4 th
2.	26421	Civil Engineering Drawing	2 nd	4 th
3.	26432	Sueveying-1	3 rd	5 th
4.	26433	Construction Process-1	3 rd	5 th
5.	26431	Structural Mechanics	3 rd	6 th

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	1 st	4 th
2.	26421	Civil Engineering Drawing	2 nd	4 th
3.	26432	Sueveying-1	3 rd	5 th
4.	26433	Construction Process-1	3 rd	5 th
5.	26431	Structural Mechanics	3 rd	6 th

[Signature]
21.08.23

[Signature]

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	Electrical Engineering Materials	1 st	4 th
2.	26722	Electrical Engineering Drawing	2 nd	4 th
3.	26732	Electrical Appliance	3 rd	5 th
4.	26833	Industrial Electronics	3 rd	5 th

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

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	1 st	4 th
2.	26912	Food Safety & Hygiene Management	1 st	4 th
3.	26921	Food Science & Nutrition	2 nd	5 th

[Handwritten signature]
21.08.23

[Handwritten signature]

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

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	1 st	4 th
2.	27021	Mechanical Engineering Drawing	2 nd	4 th
3.	27032	Machine Shop Practice-2	3 rd	5 th
4.	27231	RAC Cycle & Component	3 rd	5 th

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	1 st	4 th
2.	27121	Power Equipment Management & Safety	2 nd	4 th
3.	27131	Engineering Thermodynamics	3 rd	5 th
4.	27231	RAC Cycle & Component	3 rd	5 th
5.	27012	Machine Shop Practice-1	3 rd	5 th

[Signature]
21.08.23

[Signature]

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	1 st	4 th
2.	27031	Mechanical Engineering Materials	2 nd	4 th
3.	26211	Automobile Fundamentals	3 rd	4 th
4.	27131	Engineering Thermodynamics	3 rd	5 th
5.	27231	RAC Cycle & Component	3 rd	5 th

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	1 st	4 th
2.	27621	Ceramic Model Making	2 nd	4 th
3.	27631	Model and Mold Fabrication-1	3 rd	5 th
4.	27632	Ceramic Engineering Materials-2	3 rd	5 th
5.	27633	Ceramic Plants and Equipment	3 rd	6 th

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
----	--------------	--------------	--	------------------------

Handwritten signature
21/08/23

Handwritten signature

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

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	1 st	4 th
2.	27821	Basic Surveying	2 nd	4 th
3.	27832	Survey CAD	3 rd	5 th
4.	27831	Leveling	3 rd	5 th
5.	27834	Geodetic Surveying	3 rd	6 th

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	1 st	4 th
2.	28021	General Ship Knowledge	2 nd	4 th
3.	27931	Marine IC Engine-1	3 rd	5 th
4.	27041	Engineering Mechanics	3 rd	5 th

Handwritten signature and date: 21/08/23

Handwritten signature

5.	27131	Engineering Thermodynamics	3 rd	6 th
----	-------	----------------------------	-----------------	-----------------

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	1 st	4 th
2.	28021	General Ship Knowledge	2 nd	4 th
3.	27931	Marine IC Engine-1	3 rd	5 th
4.	27041	Engineering Mechanics	3 rd	5 th
5.	27131	Engineering Thermodynamics	3 rd	6 th

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	1 st	4 th
2.	28522	Computer Graphic Design-1	2 nd	4 th
3.	28521	Python Programming	2 nd	5 th
4.	28532	Computer Graphic Design-2	3 rd	5 th
5.	28532	Application Development Using Python	3 rd	6 th

Technology Name: Electromedical (86)

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

2008-2108-23

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

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	1 st	4 th
2.	26421	Civil engineering Drawing	2 nd	4 th
3.	26431	Structural Mechanics	3 rd	5 th
4.	26432	Surveying-1	3 rd	5 th
5.	28831	Construction methodology-1	3 rd	6 th

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	1 st	4 th
2.	26421	Civil Engineering Drawing	2 nd	4 th
3.	26432	Surveying-1	3 rd	5 th
4.	26433	Construction Process-1	3 rd	5 th

Handwritten signature and date: 21.08.23

Handwritten signature

5.	29031	Water Quality Engineering	3 rd	4 th
----	-------	---------------------------	-----------------	-----------------

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	1 st	4 th
2.	27012	Machine Shop Practice-1	2 nd	4 th
3.	27021	Mechanical Engineering Drawing	2 nd	5 th
4.	26821	Electronics Devices and Circuits	3 rd	5 th
5.	29232	Basic Mechatronics	3 rd	6 th

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	1 st	4 th
2.	26721	Electrical circuit-1	2 nd	4 th
3.	29431	Telecom Workshop and Outside Plant	3 rd	5 th
4	26821	Electronic Device and Circuits	3 rd	5 th
5.	26731	Electrical circuit-2	3 rd	6 th

[Signature]
21.08.23

[Signature]

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	1 st	4 th
2.	29521	Offset Machine Operation	2 nd	4 th
3.	29531	Graphic Materials	3 rd	5 th
4.	29631	Graphic Design-1	3 rd	5 th
5.	29632	Basic Photography	3 rd	5 th

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	1 st	4 th
2.	29521	Offset Machine Operation	2 nd	4 th
3.	29531	Graphic Materials	3 rd	5 th
4.	29631	Graphic Design-1	3 rd	5 th
5.	29632	Basic Photography	3 rd	5 th


.....21.08.23.....

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


.....

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

Technology Name: Geoinformatics Technology (60)

Makeup subjects of Geoinformatics Technology coming from Civil Drafting/Building constructions & Maintenance/Industrial Wood Working Trade are given below.

Sl.No	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: Photogrammetry & Remote Sensing Technology (73)

Makeup subjects of Photogrammetry & Remote Sensing Technology coming from Civil Drafting/Building constructions & Maintenance/Industrial Wood Working Trade are given below.

Sl.No	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
6.	26411	Civil Engineering Materials	1st	4th
7.	27821	Basic Surveying	2nd	4th
8.	27832	Survey CAD	3rd	5th
9.	27831	Leveling	3rd	5th
10.	27834	Geodetic Surveying	3rd	6th

Technology Name: Land Resources Survey & Environment Technology (74)

Makeup subjects of Land Resources Survey & Environment Technology coming from Civil Drafting/Building constructions & Maintenance/Industrial Wood Working Trade are given below.

Sl.No	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
11.	26411	Civil Engineering Materials	1st	4th
12.	27821	Basic Surveying	2nd	4th
13.	27832	Survey CAD	3rd	5th
14.	27831	Leveling	3rd	5th
15.	27834	Geodetic Surveying	3rd	6th

29/09/2023

Technology Name: Cadastral, Topographic Survey & Land Information Technology (75)

Makeup subjects of Cadastral, Topographic Survey & Land Information Technology coming from Civil Drafting/Building constructions & Maintenance/Industrial Wood Working Trade are given below.

Sl.No	Subject Code	Subject Name	Subject's Semester in Course structure	Makeup Course Semester
16.	26411	Civil Engineering Materials	1st	4th
17.	27821	Basic Surveying	2nd	4th
18.	27832	Survey CAD	3rd	5th
19.	27831	Leveling	3rd	5th
20.	27834	Geodetic Surveying	3rd	6th

Signature
২৭/০৭/২০২৩

প্রকৌশলী মোঃ আনোয়ার হোসেন
কারিকুলাম বিশেষজ্ঞ (ডিগ্রামা)
বঙ্গবন্ধো কারিগরি শিক্ষা বোর্ড, ঢাকা।