NOTIFICATION

No. 133 /2021 Date : 2/12/2021

Subject : Schemes of Equivalence & Absorption / Chances for the Old Course failure students of Engineering & Technology Group in the Faculty of Science & Technology.

It is notified for general information of all concerned that the authorities of the University have accepted the Schemes of Equivalence & Absorption / Chances for the Old Course failure students of **Semester V &VI** of B.E. [Civil, Mechanical, Electronics &Telecommunication, Electrical, Electrical (Electronics & Power), Electrical & Electronics, Computer Science & Engg., Computer Engg., Information Technology, Textile, Chemical Technology, Chemical Technology (Food, Pulp & Paper, Oil & Paint and Petrochemical Tech.) and **Semester I to V of M.C.A**. (Three Years Semester Pattern C.G.S. Course) in the Faculty of Science & Technology to be implemented from the academic session 2021-22 & onwards which shall be given below in the table.

Schemes of Equivalence & Absorption / Chances for the Old Course failure students

(A) [B.E. Sem. V & VI (Civil Engg.)]

TABLE

Sr No	Old Course S. Code	Old Course Subject (CGS)	Chances to be given upto	Equivalent new Subject Code	Equivalent New Subject (CBCS)
1	2	3	4	5	6
1	5CE01	**Sem. – V (w.e.f. Winter-21)** Reinforced Cement Concrete - II	Four chances upto Summer - 2023	……..	……..
2	5CE02	Fluid Mechanics - II	Four chances upto Summer-2023	6CE03	Fluid Mechanics
3	5CE03	Building Planning & CAD	Four chances upto Summer-2023	4CE01	Building Planning Designing & CAD
4	5CE04	Surveying ï II	Four chances upto Summer-2023	5CE02	Surveying & Geomatics
5	5FECE05	**Free Elective – I :** i)Introduction to Earthquake Engineering ii)Basics of Building Construction iii)Watershed Management	i) é é .. ii) …….. iii) é é .	i) 6CE05 O.E. II (iii) ii) 5CE05 O.E. I (i) iii) 5CE04 P.E. ï I (iv)	i) Introduction to Earthquake Engineering ii) Basics of Building Construction iii) Watershed Engineering & Management
6	5CE06	Communication Skills	Four chances upto Winter-2023	5CE05 O.E. I (iii)	Soft Skills & Interpersonal Communication
7	6CE01	**Sem. VI (w.e.f. Summer 2022)** Numerical Methods &Computer Programming	Four chances upto Summer - 2024	5CE03	Numerical Methods & Computer Programming
8	6CE02	Design of RCC & Prestressed Concrete Structures	Four chances upto Summer - 2024	5CE01	Design of Reinforced & Prestressed Concrete Structures
9	6CE03	Water Recources Engineering - I	Four chances upto Summer - 2024	……..	……..
10	6CE04	Transportation Engineering - II	Four chances upto Summer - 2024	5CE04 P.E. ï I(i)	Highway Construction & Management
11	6FECE05	**Free Elective – II :** i)Disaster Management ii) Environment Management	i) Four chancess upto Summer - 2024 ii) Four chancess upto Summer - 2024	i) 5CE05 O.E.- I (ii) ii) 6CE05 O.E.- (i)	i) Disaster Management ii) Environment Management
12	6CE06	Estimating & Costing	Four chances upto Summer - 2024	8CE02	Construction Economics & Estimating - Costing

(B) [B.E. Sem. V & VI (Mechanical Engg.)]

1	5ME01	**Sem. – V (w.e.f. Winter-21)** Production Technology	Three chances upto Winter ï 2022	5ME02	Metrology & Quality Control
2	5ME02	Heat Transfer	…….	5ME01	Heat Transfer
3	5ME03	Measurement Systems	…….	5ME04	Measurement Systems
4	5ME04	Theory of Machines - I	…….	5ME03	Kinematics of Machines

5	5FEME05	**Free Elective – I :** i)Manufacturing Techniques ii)Ergonomics iii)Production Management iv)Project Management	i) ……. ii)Three chances upto Winter ï 2022 iii) ……. iv) Three chances upto Winter ï 2022	i) 5ME05 O.E. I (ii) ii) é é . iii) 5ME05 O.E. I (i) iv) é é	i) Manufacturing Techniques ii) é é .. iii) Production Management iv) é é é
6	6ME01	**Sem. VI (w.e.f. Summer -22)** Fluid Power ï II	Three chances upto Summer - 2023	……	……
7	6ME02	Computer Software Applications	Three chances upto Summer ï 2023	……	…
8	6ME03	Control System Engineering	…….	6ME03	Control System Engineering
9	6ME04	Theory of Machines ï II	…….	6ME02	Dynamics of Machines
10	6FEME05	**Free Elective – II :** i)Automobile Engineering ii)Non-Conventional Energy Systems iii)Energy Management	i) ……. ii) ……. iii) Three chances upto Summer 2023	i) 6ME05 O.E. II (ii) ii) 6ME05 P.E. I (ii) iii)……	i) Automobile Engineering ii) Non-Conventional Energy Systems iii) …….

(C) [B.E. Sem. V & VI (Electronics &Telecommunication Engg.)]

1	5ET1	**Sem. – V (w.e.f. Winter-21)** Analog Electronics ï II	Three chances upto Winter - 2022	……	……
2	5ET2	Power Electronics & Drives	……	5ETC04 (P.E.-I) (i)	Power Electronics
3	5ET3	Microprocessors & Microcontrollers	……	5ETC01	Microcontroller
4	5ET4	Communcation Engineering ï II	Three chances upto Winter ï 2022	……	……
5	5FEET5	**Free Elective – I :** i)Electronic Test Instruments ii)Fibre Optics & Satellite Communication	i) Three chances upto Winter - 2022 ii) Three chances upto Winter ï 2022	i)….. ii)….	i)….. ii)….
6	6ET1	**Sem. VI (w.e.f. Summer -22)** Microcontroller & Programming Applications	Three chances upto Summer ï 2023	……	……
7	6ET2	Control System Engineering	……	5ETC02	Control System
8	6ET3	Digital Communication	Three chances upto Summer ï 2023	……	……
9	6ET4	Digital Signal Processing	……	5ETC03	Digital Signal Processing
10	6FEET5	**Free Elective – II :** i)Consumer Electronics ii)Introduction to Wireless Technology	i) Three chances upto Summer 2023 ii) Three chances upto Summer 2023	i) …… ii) ……	i) …… ii) ……
11	6ET6	Communication Skills	Three chances upto Summer 2023	……	……

(D) [B.E. Sem. V & VI (Computer Science Engg. / Computer Engg.)]

1	5KS01/5KE01	**Sem.V (w.e.f. Winter-21)** Data Communication	Chances upto Winter ï 2023	4KS02	Data Communication & Networking
2	5KS02/5KE02	File Structure & Data Processing	Chances upto Winter ï 2023	5KS04/ 5KE04	Any subject from Professional Elective of Semester - V
3	5KS03/5KE03	Systems Software	Chances upto Winter ï 2023	5KS02	Compiler Design
4	5KS01/5KE04	Switching Theory &Logic Design	Chances upto Winter ï 2023	6KE03	Signals & Systems
5	5FEKS05/5FEKE05	**Free Elective I (5KS05):** i)Data Structures & Algorithms ii)Data Communication & Networking **Free Elective I (5KE05) :** i)Web Technologies ii)Object Oriented Programming	**Free Elective I (5KS05):** i)Chances upto Winter-2023 ii) Chances upto Winter-2023 **Free Elective I (5KE05) :** i)Web Technologies ii)Object Oriented Programming	i) 5KS04/ 5KE04 ii) 5KS04/ 5KE04 i) 5KE04/ 5KS04 ii) 5KE04/ 5KS04	i)Any subject from Open Elective of Semester ï V ii) Any subject from Open Elective of Semester - V i)Any subject from Open Elective of Semester ï V ii) Any subject from Open Elective of Semester - V

6	6KS01/6KE01	**Sem. VI (w.e.f. Summer 22)** Operating Systems	Chances upto Winter ï 2023	4KS03	Operating System
7	6KS02/6KE02	Database Systems	Chances upto Winter ï 2023	5KS01	Database Management Systems
8	6KS03/6KE03	Computing Resources Management	Chances upto Winter ï 2023	……	Any subject from Prof. Elective of Semester - VI
9	6KS04/6KE04	Computer Architecture	Chances upto Winter ï 2023	5KS03	Computer Architecture & Organization
10	6FEKS05/6FEKE05	**(I)Free Elective II (6KS05) :** i)Database Management Systems ii)software Project Management **(II)Free Elective II (6KE05)** i)Java Programming ii)Expert Systems	i)Chances upto Winter - 2023 ii) Chances upto Winter ï 2023 i) Chances upto Winter ï 2023 ii) Chances upto Winter ï 2023	i) 5KS05/ 5KE05 ii) 5KS05/ 5KE05 i) 5KE05/ 5KS05 ii) 5KE05/ 5KS05	(I) (i)Any subject from Open Elective of Semester -V (ii)Any subject from Open Elective of Semester -V (II) (i)Any subject from Open Elective of Semester -V (ii)Any subject from Open Elective of Semester -V
11	6KS04/6KE04	Professional Ethics	Chances upto Winter ï 2023	……	Universal Human Values

(E) [B.E. Sem. V & VI (Information Technology)]

1	5IT01	**Sem. – V (w.e.f. Winter-21)** Operating Systems	Two chances i.e. Winter ï 2021 & Summer - 2022	4IT03	Operating Systems
2	5IT02	Digital Integrated Circuits	Two chances i.e. Winter ï 2021 & Summer - 2022	3IT05	Analog & Digital Electronics
3	5IT03	Computer Architecture & Organization	Two chances i.e. Winter ï 2021 & Summer - 2022	4IT01	Computer Organization & Architecture
4	5IT04	Communication Skills	Two chances i.e. Winter ï 2021 & Summer - 2022	……	……
5	5FEIT005	**Free Elective – I :** i)Introduction to Computer Networks ii)IT Ethics & Practices	i)Four chances upto Summer - 2023 ii) Two chances i.e. Winter ï 2021 & Summer - 2022	i) …… ii)8IT02	i)…… ii)Professional Ethics & Management
6	6IT01	**Sem. VI (w.e.f. Summer 2022)** Principles of Management	Four chances upto Winter ï 2023	……	……
7	6IT02	Database Management Systems	Two chances i.e. Summer ï 2022 & Winter ï 2022	5IT01	Database Management Systems
8	6IT03	Theory of Computation	Two chances i.e. Summer ï 2022 & Winter ï 2022	5IT02	Theory of Computation
9	6IT04	Computer Networks	Two chances i.e. Summer ï 2022 & Winter ï 2022	4IT02	Data Communication & Networking
10	6FEIT05	**Free Elective – II :** i)E-Commerce ii)Knowledge Management	i) Four chances upto Winter 2023 ii) Four chances upto Winter 2023	i) …….. ii) ……..	i) …… ii) ……..

(F) [B.E. Sem. V & VI (Electrical / Electrical (Electronics & Power) / Electrical & Electronics Engg.)]

1	5EP01/5EL01/ 5EE01	**Sem. – V (w.e.f. Winter-21)** Control Systems ï I	Chances upto Winter-2022	5EE01	Control Systems
2	5EP02/5EL02/ 5EE02	Microprocessors & Microcontrollers	Chances upto Winter-2022	5EE02	Microprocessors & Microcontrollers
3	5EP03/5EL03/ 5EE03	Electrical Machines - II	Chances upto Winter-2022	5EE03	Electrical Machines - II
4	5EP04/5EL04/ 5EE04/5EX03	Signals & Systems	Chances upto Winter-2022	5EP04	Signals & Systems

5	5FEEP05/5FEEL05/ 5FEEE05/ 5FEEX05	**Free Elective – I :** i)Electrical Drives ii)Energy Audit & Management	i) Chances upto Winter-2022 ii) Chances upto Winter-2022	i)5EP05 O.E.- I ii) 6EP05 O.E.- II	i)**Open Elective – I** i)Electric Drives ii) Energy Audit & Management
6	5EX01	Control Systems	Chances upto Winter-2022	5EX01	Control Systems
7	5EX02	Digital Electronics	Chances upto Winter-2022	…..	……..
8	5EX04	Electrical Power ï I	Chances upto Winter-2022	5EP01	Power System ï I
9	6EP01/6EL01/ 6EE01	**Sem. VI (w.e.f. Summer 22)** Electrical Power ï I	Chances upto Winter-2022	5EP01	Power System ï I
10	6EP02/6EL02/ 6EE02/6EX02	Optimization Techniques	Chances upto Winter-2022	…..	……..
11	6EP03/6EL03/ 6EE03/6EX06	Power Electronics / Power Electronics - I	Chances upto Winter-2022	6EP01	Power Electronics
12	6EP04/6EL04/ 6EE04	Computer Aided Machine Design	Chances upto Winter-2022	6EP03	Computer Aided Electrical Machine Design
13	6FEEP05/6FEEL05/ 6FEEE05/ 6FEEX05	**Free Elective – II :** i)Electrical Estimating & Costing ii)Power Supply Systems	i) Chances upto Winter-2022 ii) Chances upto Winter-2022	i)6EP05 ii) …..	**Open Elective – II** : i) Electrical Estimating & Costing ii) …..
14	6EX01	Digital Signal Processing	Chances upto Winter-2022	7EX02	Digital Signal Processing
15	6EX03	Electrical Power ï II	Chances upto Winter-2022	6EX02	Power System ï II
16	6EX04	Microprocessors & Microcontrollers	Chances upto Winter-2022	5EX02	Microprocessor & Microcontroller

(G) [B.Tech. Sem. V & VI (Chemical Engineering)]

1	5CH01/ 5CT01	**Sem. – V (w.e.f. Winter-21)** Heat Transfer	Three chances upto Winter-2022	5CH01/ 5CT01	Heat Transfer
2	5CH02	Chemical Engineering Process ï I (Inorganic Chemical Technology)	Three chances upto Winter-2022	5CH02	Chemical Engineering Process I (Inorganic Chemical Technology)
3	5CH03	Economics & Management	Three chances upto Winter-2022	5CH04 P.E. I (ii)	Economics & Management
4	5CH04	Material Science &Engineering	Three chances upto Winter-2022	5CH03	Material Science &Engineering
5	5FECH05	**Free Elective – I :** i)Air Pollution Control ii)Risk &Safety Management in Industries	i)Three chances upto Winter-2022 ii) Three chances upto Winter-2022	i) 5CH04 P.E. I (i) ii) 5CH05 O.E. I (A)	i)Air Pollution Control ii)Risk &Safety Management
6	5CH06	Communication Skills	Three chances upto Winter-2022	…..	……..
7	6CH01	**Sem. VI (w.e.f. Summer-22)** Chemical Engineering Operation II (Mass Transfer - I)	Three chances upto Summer 2023	6CH01	Chemical Engineering Operation II (Mass Transfer -I)
8	6CH02	Chemical Engineering Processï II (Organic Chemical Technology)	Three chances upto Summer 2023	6CH02	Chemical Engineering Process II (Organic Chemical Technology)
9	6CH03	Computer Programming & Applications	Three chances upto Summer 2023	6CH03	Computer Programming & Applications
10	6CH04	Process Equipment Design & Drawing	Three chances upto Summer 2023	6CH04 P.E. II (a)	Process Equipment Design & Drawing
11	6FECH05	**Free Elective – II :** i)Renewable Energy Sources ii)Water Technology	i)Three chances upto Summer 2023 ii) Three chances upto Summer 2023	i) 6CH05 O.E. II (A) ii) 6CH05 O.E. II (B)	i) Renewable Energy Sources ii) Water Technology

(H) [B.Tech. Sem. V & VI (Chemical Technology) (Food, Pulp & Paper, Oil &Paint and Petrochemical Tech.]

1	5CT01 / 5CH01	**Sem. – V (w.e.f. Winter-21)** Heat Transfer	Three chances upto Winter-2022	5CT01 / 5CH01	Heat Transfer
2	5CT02	Mechanical Operations	Three chances upto Winter-2022	5CT02 P.E. I (i)	Mechanical Operations
3	5CT03	Chemical Engineering Thermodynamics	Three chances upto Winter-2022	5CT03	Chemical Engineering Thermodynamics
4	5FT04	Food Technology - II	Three chances upto Winter-2022	5FT04	Food Technology ï II
5	5PT04	Pulp & Paper Technology -II	Three chances upto Winter-2022	5PT04	Pulp & Paper Technology -II
6	5OT04	Oil & Paint Technology ï II	Three chances upto Winter-2022	5OT04	Oil & Paint Technology ï II
7	5PC04	Petrochemical Technology - II	Three chances upto Winter-2022	5PC04	Petrochemical Technology - II
8	(i)5FECT05 (ii)5FECT05/ 5CH03	**Free Elective – I :** i) Environmental Impact : Risk Assessment & Management ii)Economics & Management	i) Three chances upto Winter-2022 ii) Three chances upto Winter-2022	i)5CT05 O.E. I (2) ii)5CT05 O.E. II (1)	i) Environmental Impact : Risk Assessment & Management ii) Economics & Management
9	5CT06	Communication Skills	Three chances upto Winter-2022	…..	……..
10	6CT01	**Sem. VI (w.e.f. Summer-22)** Process Equipment Design & Drawing	Three chances upto Summer 2023	6CT01 P.E.II (i)	Process Equipment Design & Drawing
11	6CT02	Computer Programming & Applications	Three chances upto Summer 2023	6CT02	Computer Programming & Applications
12	6CT03	Instrumentation & Control	Three chances upto Summer 2023	6CT03	Instrumentation & Control
13	6FT04	Food Technology- III	Three chances upto Summer 2023	6FT04	Food Technology- III
14	6PT04	Pulp &Paper Technology ï III	Three chances upto Summer 2023	6PT04	Pulp &Paper Technology ï III
15	6OT04	Oil & Paint Technology ï III	Three chances upto Summer 2023	6OT04	Oil & Paint Technology ï III
16	6PC04	Petrochemical Technology - III	Three chances upto Summer 2023	6PC04	Petrochemical Technology III
14	6FECT05	**Free Elective – II :** i) Introduction to Membrane Technology ii)Renewable Energy Sources iii)Chemical Technology	i) Three chances upto Summer 2023 ii) Three chances upto Summer 2023	i)6CT05 O.E. II (2) ii)6CT05 O.E. II (3)	i) Introduction to Membrane Technology ii) Renewable Energy Sources iii) Chemical Technology

(I) [B.Text. Sem. V & VI (Textile Engineering)]

1	5TX01	**Sem. – V (w.e.f. Winter-21)** Yarn Manufacturing - III	Two chances i.e. Winter ï 2021 & Summer - 2022	4TX02	Yarn Manufacturing - II
2	5TX02	Fabric Manufacturing ï III	Two chances i.e. Winter ï 2021 & Summer ï 2022	…..	……..
3	5TX03	Textile Testing ï I	Two chances i.e. Winter ï 2021 & Summer ï 2022	3TX04	Textile Testing ï I
4	5TX04	Textile Costing & Mathematics	Two chances i.e. Winter ï 2021 & Summer ï 2022	…..	……..
5	5FETX01	**Free Elective – I :** i) Technical Textiles ii)Fashion & Clothing Science	i) Two chances i.e. Winter ï 2021 & Summer ï 2022 ii) Two chances i.e. Winter ï 2021 & Summer ï 2022	i) 7TX05 ii) 6TX05	i)Prof. Elective ï III (Technical Textiles) ii)Open Elective ï II (Fashion & Clothing Science)
6	6TX01	**Sem. VI (w.e.f. Summer 2022)** Fabric Structure	Two chances i.e. Summer ï 2022 & Winter ï 2022	5TX01	Fabric Structure & Design
7	6TX02	Advanced Yarn Manufacturing Technology	Two chances i.e. Summer ï 2022 & Winter ï 2022	5TX02	Advanced Yarn Manufacturing Technology

8	6TX03	Textile Testing ï II	Two chances i.e. Summer ï 2022 & Winter ï 2022	3TX04	Textile Testing ï II
9	6TX04	Apparel Merchandising	Two chances i.e. Summer ï 2022 & Winter ï 2022	…..	……..
10	6FETX05	**Free Elective – II :** i) Computer Aided Textile &Fashion Designing ii) Fashion Technology	i) Two chances i.e. Summer ï 2022 & Winter ï 2022 ii) Two chances i.e. Summer ï 2022 & Winter ï 2022	i)7TX05 ii) 6TX05	i)Prof. Elective ï III (Technical Textiles) ii)Open Elective ï II (Fashion & Clothing Science)
11	6TX06	Communication Skills	Two chances i.e. Summer ï 2022 & Winter ï 2022	…..	……..

(J) [M.C.A. Semester I to V (Three Years Semester Pattern C.G.S. Course)]

(K)

1	1MCA1	**Semester – I (w.e.f. Winter-2021)** Computer Organization	Additional chances upto Winter ï 2022	…..	……..
2	1MCA2	Problem Solving Using C++	Additional chances upto Winter ï 2022	…..	……..
3	1MCA3	Computer Oriented Statistical Methods	Additional chances upto Winter ï 2022	…..	……..
4	1MCA4	Principles of Management	Additional chances upto Winter ï 2022	…..	……..
5	1MCA5	Communication Skills	Additional chances upto Winter ï 2022	…..	……..
6	2MCA1	**Semester - II (w.e.f. Summer-2022)** Data Structures & Algorithms	Additional chances upto Summer ï 2023	MCA20102	Data Structures & Algorithms
7	2MCA2	Object Oriented Programming	Additional chances upto Summer ï 2023	…..	……..
8	2MCA3	System Analysis & Design	Additional chances upto Summer ï 2023	…..	……..
9	2MCA4	Data Communication	Additional chances upto Summer ï 2023	…..	……..
10	2MCA5	Business Systems	Additional chances upto Summer ï 2023		
11	3MCA1	**Semester -III (w.e.f. Winter-2022)** Operating Systems	…..	MCA20102	Operating Systems
12	3MCA2	File Structure & Data Processing	Additional chances upto Winter ï 2023	…..	……..
13	3MCA3	Java Programming	Additional chances upto Winter ï 2023	…..	……..
14	3MCA4	Computer Networks	Additional chances upto Winter ï 2023	…..	……..
15	3MCA5	Computer Oriented Optimization Techniques	…..	MCA20205	**Elective – I** : Optimization Techniques
16	4MCA1	**Semester - IV (w.e.f. Summer-2023)** Database Management Systems	…..	MCA20203	Advance Database Management Systems

17	4MCA2	Client Server Computing	Additional chances upto Summer ï 2024	…..	…..
18	4MCA3	Multimedia Technologies	Additional chances upto Summer ï 2024	…..	…..
19	4MCA4	Electronic Commerce	Additional chances upto Summer ï 2024	…..	…..
20	4MCA5	**Free Elective – I :** i) Computer Graphics ii)Modeling & Simulation	i)Additional chances upto Summer-2024 ii) Additional chances upto Summer-2024	i) MCA20205 ii) …..	i) **Elective I** : Computer Graphics ii) …..
21	5MCA1	**Semester -V (w.e.f. Winter-2023)** Artificial Intelligence	Additional chances upto Winter - 2024	…..	……..
22	5MCA2	Software Project Management	…..	MCA20204	Software Engineering
23	5MCA3	System Administration & Security	Additional chances upto Winter ï 2024	…..	……..
24	5MCA4	Management Information Systems	Additional chances upto Winter ï 2024	…..	……..
25	5MCA5	**Free Elective – II :** i) Data Warehousing ii)Bio-informatics	i)Additional chances upto Winter ï 2024 i)Additional chances upto Winter ï 2024	**i) ……** **ii) ……..**	**i) ……** **ii) ……..**

Sd/-
(Dr.T.R.Deshmukh)
Registrar
Sant Gadge Baba Amravati University

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