



Government College of Engineering, Amravati – 444604

(An Autonomous Institute of Govt. of Maharashtra)

“Towards Global Technological Excellence”

Phone: 0721-2531929, 2531930

Email: principal@gcoea.ac.in

FAX: 0721-2531931

Web: www.gcoea.ac.in

Circular

No.: GCoEA/Dean (Acad)/ Absorption/ BTech/ 2020-21/ 3423

Date: 17/09/2021

Subject: Regarding absorption of B. Tech. students from old scheme (184 credits) to new scheme (164 credits)

Preamble:

The curriculum structure of B. Tech programmes have been revised from the academic year 2019-20. As per this revision total credits have been reduced from 184 to 164. The new curriculum is implemented from the academic year 2020-2021 for second year and will be implemented for third year and final year from the academic year 2021-2022 and 2022-2023 respectively.

The students who were admitted to B. Tech. first year in old scheme (2018-19 or earlier) could not take admission in second year of B. Tech. during 2019-20, as they were not satisfying the eligibility criteria or due to some other reason. These students should be absorbed in new curriculum scheme (Rule R 15), because the new curriculum has been implemented from 2020-21 for second year B. Tech. Similarly if a student has completed first year and second year in old scheme and takes admission to third year during 2021-2022 or afterwards, will have to be absorbed in new scheme from fifth semester. In the same way, if a student has completed first, second and third year in old scheme and admitted to final year during 2022-2023 or afterwards will have to be absorbed in new scheme from seventh semester. It may be required to absorb a student to new scheme in II, IV, VI or VIII semester if such situation arises.

For absorption of all such students of B. Tech., guidelines given in this circular shall be followed.

Guidelines for absorption of B. Tech. students from old scheme (184 credits) to new scheme (164 credits):

- 1) The students from old scheme, to be switched to new scheme in III, V and VII semester, has to fulfill the prevailing ATKT norms of old scheme to become eligible for admission.

Ex.: A student switching to new scheme in V semester (during 2021-22), should have earned credits of all the courses of first and second semesters (old scheme), and should have earned at least 75% of the total credits (rounded to lower integer) of third and fourth semester of old scheme.

- 2) A student switching from old scheme to new scheme shall have to pass all courses of all previous semesters in old scheme.

Sr. No.	Student switching to new scheme in	Shall have to pass all the courses of old scheme of the semesters
1	II semester	I
2	III semester	I & II
3	IV semester	I, II & III
4	V semester	I, II, III & IV
5	VI semester	I, II, III, IV & V
6	VII semester	I, II, III, IV, V & VI
7	VIII semester	I, II, III, IV, V, VI & VII

In addition, the student shall have to register and pass all those courses of previous semesters of new scheme of his/ her branch, which are mentioned in Appendix-A. The student shall pass these courses in the form of audit (non-credit) courses, and the passing marks for such audit courses shall be 25%. Students are allowed to pass these courses up to eighth semester however it is advisable to pass these courses at the earliest.

- Ex.: (i) A student switching to new scheme in fifth semester (Civil Engineering) shall have to pass all the courses of first, second, third and fourth semesters of old scheme (Civil Engineering) and, in addition he/ she shall have to pass CEU425 (Hydrology and Water Resources Engineering) of new scheme as an audit courses.
- (ii) A student switching to new scheme in seventh semester (Electrical Engineering) shall have to pass all the courses of first, second, third, fourth, fifth and sixth semesters of old scheme (Electrical Engineering) and, in addition he/ she shall have to pass EEU622 (Control System Design) and EEU624A (Power System Protection) of new scheme as audit courses.
- 3) A student switching to new scheme shall have the grade reports of all previous semesters as per old scheme.
- 4) Transfer of credits: When a student switches from old scheme to new scheme, he/ she shall be presumed to have earned credits of all courses offered in previous semesters of that programme in new scheme, provided he/ she clears all the courses of previous semesters in old scheme and passes in the courses of new scheme, which are not equivalent to any course of old scheme

Ex.: A students who has passed first year (first and second semester) in old scheme (having total 46 credits in first year) and has passed in the courses of first and second semester of new scheme, which are not equivalent to any course of old scheme shall be presumed to have earned all 42 credits of first year (first and second semester) of new scheme (as the total credits of first year in new scheme are 42)

- 5) Transfer of CGPA: The CGPA obtained by the student at the end of the semester in old scheme, after which he/ she is switched to new scheme, shall be carried forward for all further calculations. The CGPA is to be transferred only after completely passing all the required courses of old scheme.

Ex.: If a student switching to new scheme in VII semester, has got 8.6 CGPA at the end of sixth semester (after completely passing I, II, III, IV, V and VI semesters of old scheme), then it will be carried forward and his/ her CGPA at the end of sixth semester shall be taken as 8.6 for any further calculations.

- 6) Transfer of EGP: As the total credits in a semester of old scheme and new scheme may be different, hence the EGP (Earned Grade Points) obtained by a student shall be converted to equivalent EGP for further calculation. If a student switches to new scheme in k^{th} semester, the EGP obtained by the student at the end of $(k-1)^{\text{th}}$ semester shall be converted to equivalent new EGP for all further calculations. This conversion shall be done only after completely passing all the semesters up to $(k-1)^{\text{th}}$ semester in old scheme. Following formula shall be used for converting EGP obtained in old scheme to equivalent new EGP

$$\text{New EGP [at the end of } (k-1)^{\text{th}} \text{ semester]} = \text{Old EGP [at the end of } (k-1)^{\text{th}} \text{ semester]} \times \frac{[\text{New Credits up to } (k-1)^{\text{th}} \text{ semester}]}{[\text{Old Credits up to } (k-1)^{\text{th}} \text{ semester}]}$$

Ex.: If a student of B. Tech. has earned all 46 credits of first year with EGP 391 in old scheme, then his/ her CGPA at the end of first year will be 8.5. If the student has switched to new scheme in second year (third semester), his/ her CGPA shall be taken as 8.5 at the end of first year and equivalent new EGP shall be calculated as

$$\text{Equivalent new EGP} = 391 \times (42/46) = 357$$

(As the total credits of first year in new scheme are 42)

If the equivalent new EGP is a fractional number, it should be taken as it is, i.e. it should not be rounded off.

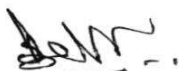
- 7) If a student has failed in a course of old scheme, for which equivalent course is available in new scheme, he/ she will have to appear for the equivalent course of new scheme.
Ex.: If a student of B. Tech. Electrical Engineering, switching to new scheme in VII semester, has failed in the course EEU502 Power System Analysis-I (a course of fifth semester in old

scheme with 3 credits), then he/ she will have to appear in the equivalent course of new scheme, i.e., EEU522 Power System Apparatus and Modeling (which is of 4 credits). However, on the grade report of fifth semester, the course shown will be EEU502 Power System Analysis-I (with 3 credits). The grade obtained in EEU522 shall be transferred to EEU502 as it is.

- 8) When a student is absorbed in new scheme in a particular semester, it should be indicated on the grade report of that semester that the student was in old scheme up to the previous semester and has been absorbed to new scheme in this semester. Credits earned in old scheme and equivalent credits in new scheme shall also be mentioned on that grade report.
- 9) A student absorbed in new scheme in a particular semester, shall pass all the courses of that semester and all further semesters in new scheme.
However, after absorption, if a course in new scheme is equivalent to some course of previous semesters in old scheme, which the student has already passed, the students shall be given option either to pass that course of new scheme or get exemption from appearing for that course in new scheme.
If the student opts for getting exemption, then in such case the grade of the course of old scheme shall be transferred as it is to the equivalent course of new scheme and the EGP of that course in new scheme shall be calculated as

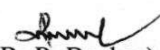
$$\text{EGP in a course of new scheme} = \frac{\text{Grade points} \times \text{Credits in the corresponding course of new scheme}}{\text{Credits in the corresponding course of new scheme}}$$

If the student opts for appearing for that course in new scheme and his/ her performance is not improved, than his/ her earlier performance (performance in the equivalent course of old scheme) shall be retained



(Dr. P. P. Bedekar)
Dean (Academic)

Govt. College of Engineering, Amravati



(Dr. R. P. Borkar)
Principal

Govt. College of Engineering, Amravati

Copy to:

- 1) Head CE/ ME/ EE/ ET/ CS/ IN/ IT/ App. Mech./ SH
- 2) Controller of Examination
- 3) Result Section In-charge
- 4) College website

Govt. College of Engineering, Amravati

Appendix - A

Department of Civil Engineering


No. GCOEA/CED /REV. CURR./ 2012/ 488

Date: 09.09.2021

Subject: Absorption of students from old scheme to new scheme

A student of B. Tech. Civil Engineering, switching from old scheme to new scheme shall have to register and pass following additional courses of previous semesters of new scheme:—

Student switching to new scheme in	Shall pass following additional courses of previous semesters of new scheme	
	Course code	Course name
II semester	--	NIL
III semester	--	NIL
IV semester	--	NIL
V semester	CEU425	Hydrology and Water Resources Engineering
VI semester	CEU522	Geotechnical Engineering
	CEU525	Railway, Tunnel and Airport Engineering
VII semester	CEU525	Railway, Tunnel and Airport Engineering
	CEU625	Environmental Engineering
VIII semester	CEU525	Railway, Tunnel and Airport Engineering
	CEU625	Environmental Engineering


Member Secretary C.S. (a. Thalcar),
BoS in Civil Engineering


Chairperson
BoS in Civil Engineering

To,
✓ Dean (Academic)
Govt. College of Engineering, Amravati

Govt. College of Engineering, Amravati
Department of ~~ME~~ Mechanical Engineering


No. MED / 978

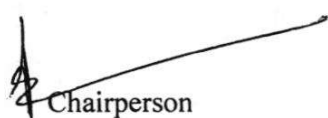
Date: 9.09.2021

Subject: Absorption of students from old scheme to new scheme

A student of B. Tech. Mechanical Engineering, switching from old scheme to new scheme shall have to register and pass following additional courses of previous semesters of new scheme.

Student switching to new scheme in	Shall pass following additional courses of previous semesters of new scheme	
	Course code	Course name
II semester	--	NIL
III semester	--	NIL
IV semester	--	NIL
V semester	MEU402	Kinematics of Machines
VI semester	MEU503	Machining Processes
VII semester	MEU701	Refrigeration and Air conditioning
VIII semester	MEU801	Internal combustion Engine


Member Secretary
BoS in Mechanical Engineering


Chairperson
BoS in Mechanical Engineering

To,
Dean (Academic)
GCoE, Amravati

9/9/24.


Electrical Engineering Department

Subject- : Absorption of students from old scheme to new scheme

A student of B. Tech. Electrical Engineering switching from old scheme to new scheme shall have to registrar and pass following additional courses of previous semesters of new scheme:

Student switching to new scheme in	Shall pass following additional courses of previous semesters of new course	
	Course Code	Course Name
Sem-II	---	Nil
Sem-III	MEU222	Basic Mechanical Engineering
Sem-IV	MEU222	Basic Mechanical Engineering
Sem-V	---	Nil
Sem-VI	---	Nil
Sem-VII	EEU622	Control System Design
	EEU624A	Power System Protection
Sem-VIII	EEU622	Control System Design
	EEU624A	Power System Protection


Member Secretary
BoS EED


Chairperson
BoS EED

To,

Dean (Academic)
GCoE, Amravati

Subject: **Absorption of students from old scheme to New scheme**

Students of B.Tech, Electronics and Telecommunication Engineering, switching from old scheme to new scheme shall have to register and pass following additional courses of previous semesters of new scheme.

Students switching to new scheme in	shall have pass following additional courses of previous semesters of new scheme	
	Course code	Course Name
I semester	NIL	NIL
II semester	NIL	NIL
III semester	MEU222	Basic of Mechanical Engineering
IV semester	NIL	NIL
V semester	NIL	NIL
VI semester	ETU521	Electromagnetic field
	ETU523	Digital communication
VII semester	ETU523	Digital communication
	ETU622	Computer Network
VIII semester	ETU622	Computer Network
	ETU724	Program Elective V

Member Secretary

BoS Chairman (Electronics Engg.)

✓ To

The Dean (Academic), Government College of Engineering, Amravati


जावक नं. २४०
संगणक विज्ञान व अभियांत्रिकी विभाग
शासकीय अभियांत्रिकी महाविद्यालय
अमरावती. R. 16/09/2021

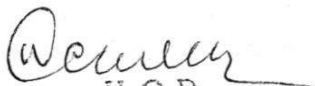
Department Of Computer Science & Engineering

Following courses of second, third and final year B. Tech. Computer Science and Engineering for absorption students.

Subject - Absorption of students from old scheme to new scheme

Semester	Course Code	Course Name
First Sem	Nil	Nil
Second Sem	Nil	Nil
Third Sem	MEU222	Basic Mechanical Engineering
Fourth Sem	ETU331	Analog and Digital Integrated Circuit
	CSU321	Data Structure & Algorithms
Fifth Sem	CSU423	Operating Systems
	CSU424	Design & Analysis of Algorithm
Sixth Sem	CSU423	Operating Systems
	CSU524	Computer Network
Seventh Sem	CSU523/CSU623	Java & Python Programming
	CSU621	Compiler Design
Eight Sem	CSU623	Program Elective-II C. Machine Learning
	CSU723	Program Elective-V D. Internet of Things


BOS Member Secretary


BoS Chairman
Dept. of Computer Science & Engineering
CSE Dept.
Government College of Engineering
Amravati.

मा. २५ | २०२१ | ६५२
९.९/९/२०२१

Government College of Engineering, Amravati
Department of Information Technology


No:

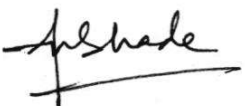
Date: 09/09/2021

Subject: Absorption of students from old scheme to new scheme

A student of B. Tech. Information Technology switching from old scheme to new scheme shall have to register and pass following additional courses of previous semesters of new scheme-

Student switching to new scheme in	Shall pass following additional courses of previous semesters of new scheme	
	Course Code	Course Name
II Semester	MEU222	Basic Mechanical Engineering
III Semester	-	-
IV Semester	ITU321	Computer Organization & Architecture
V Semester	ITU422	Database Management Systems
	ITU423	Operating System
VI Semester	ITU521	Software Engineering
	ITU522	Computer Network
VII Semester	ITU622	Artificial Intelligence
	ITU625	Cloud Computing
VIII Semester	ITU721 Program Elective-IV	D)Information Security


Member Secretary BoS
Department of Information Technology


Chairman BoS
Department of Information Technology

To,
Dean (Acad.)
GCoE Amravati



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Circular

No.: GCoEA/Dean (Acad)/ Absorption/ MTech/ 2020-21/ 3422

Date: 17/9/2021

Subject: Regarding absorption of M. Tech. students from old scheme (90 credits) to new scheme (68 credits)

Preamble:

The curriculum structure of M. Tech programmes have been revised from the academic year 2019-20. As per this revision total credits have been reduced from 90 to 68. The new curriculum is implemented from the academic year 2020-2021 for second year.

Some of the students who were admitted to M. Tech. first year in old scheme (2018-19 or earlier) could not take admission in second year of M. Tech. during 2019-20, as they were not satisfying the eligibility criteria or due to some other reason. These students should have been absorbed in new curriculum scheme (Rule R 30), because the new curriculum has been implemented from 2020-21 (for second year M. Tech.).

These students had submitted applications to allow them to continue in the old scheme, to avoid unnecessary burden of appearing and passing many courses of first and second semester of new scheme. The matter was discussed in the meeting of all internal members of Academic Council, held on 02.03.2021 and it was decided to consider the request of students and permit them to continue in old scheme as a special case for the academic year 2020-21 only (subject to approval of Academic Council).

Academic Council in its 43rd meeting (held on 08.04.2021) has noted and approved the decision taken by the institute (as per circular no. GCoEA/ Dean (Acad)/ 2021/ 1460 dt 31.03.2021), with following modifications –

“This facility shall be given to only those students of M. Tech., who have passed all the theory and practical courses of first and second semester (of old scheme) up to Summer Term 2020 examination.

Students having one or more backlogs of first/ second semester (old scheme) after Summer Term 2020 examination shall not be allowed to avail this facility. Such students shall be absorbed in the new scheme as per prevailing rules.”

In view of this, the students who were admitted to M. Tech. first year in old scheme (2018-19 or earlier) and have taken admission in second year of M. Tech. during 2020-21 are to be absorbed in new scheme (except the students who have passed all the courses of first and second semester M. Tech. up to Summer Term 2020). For absorption of all such students of M. Tech., guidelines given in this circular shall be followed.

Guidelines for absorption of M. Tech. students from old scheme (90 credits) to new scheme (68 credits):

- 1) The students from old scheme, to be switched to new scheme in III semester, has to fulfill the prevailing ATKT norms of old scheme to become eligible for admission, i.e. A student switching to new scheme in III semester (during 2021-22), should have earned at least $(2/3)^{\text{rd}}$ of the total credits (rounded to lower integer) of first and second semester of old scheme.
- 2) A student switching from old scheme to new scheme shall have to pass all courses of all previous semesters in old scheme.

Sr. No.	Student switching to new scheme in	Shall have to pass all the courses of old scheme of the semesters
1	II semester	I
2	III semester	I & II

In addition, the student shall have to register and pass all those courses of previous semesters of new scheme of his/ her branch, which are mentioned in Appendix-A. The student shall pass these courses in the form of audit (non-credit) courses, and the passing marks for such audit courses shall be 25%.

- Ex.: (i) A student switching to new scheme in second semester (Structural Engineering) shall have to pass all the courses of first semester of old scheme (Structural Engineering) and, in addition he/ she shall have to pass SHP121 (Audit Course – I) of new scheme as audit course.
- (ii) A student switching to new scheme in third semester (Geotechnical Engineering) shall have to pass all the courses of first and second semesters of old scheme (Geotechnical Engineering) and, in addition he/ she shall have to pass SHP121 (Audit Course – I) and SHP221 (Research Methodology) of new scheme as audit courses.

- 3) A student switching to new scheme shall have the grade reports of all previous semesters as per old scheme.
- 4) Transfer of credits: When a student switches from old scheme to new scheme, he/ she shall be presumed to have earned credits of all courses offered in previous semesters of that programme in new scheme, provided he/ she clears all the courses of previous semesters in old scheme and passes in the courses of new scheme, which are not equivalent to any course of old scheme

Ex.: A students of M. Tech. Geotechnical Engineering, who has passed first year (first and second semester) in old scheme (having total 50 credits in first year) and has passed SHP121

(Audit Course – I) and SHP221 (Research Methodology) of new scheme as audit courses, shall be presumed to have earned 36 credits of first year (first and second semester) of new scheme (as the total credits of first year in new scheme are 36)

- 5) Transfer of CGPA: The CGPA obtained by the student at the end of the semester in old scheme, after which he/ she is switched to new scheme, shall be carried forward for all further calculations. The CGPA is to be transferred only after completely passing all the required courses of old scheme.

Ex.: If a student switching to new scheme in III semester, has got 8.6 CGPA at the end of first year (after completely passing first and second semester of old scheme), then it will be carried forward and his/ her CGPA at the end of first year shall be taken as 8.6 for any further calculations.

- 6) Transfer of EGP: As the total credits in a semester of old scheme and new scheme may be different, hence the EGP (Earned Grade Points) obtained by a student shall be converted to equivalent EGP for further calculation. If a student switches to new scheme in k^{th} semester, the EGP obtained by the student at the end of $(k-1)^{\text{th}}$ semester shall be converted to equivalent new EGP for all further calculations. This conversion shall be done only after completely passing all the semesters up to $(k-1)^{\text{th}}$ semester in old scheme. Following formula shall be used for converting EGP obtained in old scheme to equivalent new EGP

$$\text{New EGP [at the end of } (k-1)^{\text{th}} \text{ semester]} = \text{Old EGP [at the end of } (k-1)^{\text{th}} \text{ semester]} \times \frac{[\text{New Credits up to } (k-1)^{\text{th}} \text{ semester}]}{[\text{Old Credits up to } (k-1)^{\text{th}} \text{ semester}]}$$

Ex.: If a student of M. Tech. Structural Engineering has earned all 50 credits of first year with EGP 395 in old scheme, then his/ her CGPA at the end of first year will be 7.9. If the student has switched to new scheme in third semester, his/ her CGPA shall be taken as 7.9 at the end of first year and equivalent new EGP shall be calculated as

$$\text{Equivalent new EGP} = 395 \times (36/50) = 284.4$$

(As the total credits of first year in new scheme are 36)

If the equivalent new EGP is a fractional number, it should be taken as it is, i.e. it should not be rounded off.

- 7) If a student has failed in a course of old scheme, for which equivalent course is available in new scheme, he/ she will have to appear for the equivalent course of new scheme.

Ex.: If a student of M. Tech. Structural Engineering, switching to new scheme in III semester, has failed in the course SHP101 Engineering Mathematics (a course of first semester in old scheme with 4 credits), then he/ she will have to appear in the equivalent course of new scheme, i.e., CEP133 Numerical Methods for Structural Engineering (which is of 3 credits).

However, on the grade report of first semester, the course shown will be SHP101 Engineering Mathematics (with 4 credits). The grade obtained in CEP133 shall be transferred to SHP101 as it is.

- 8) When a student is absorbed in new scheme in a particular semester, it should be indicated on the grade report of that semester that the student was in old scheme up to the previous semester and has been absorbed to new scheme in this semester. Credits earned in old scheme and equivalent credits in new scheme shall also be mentioned on that grade report.

- 9) A student absorbed in new scheme in a particular semester, shall pass all the courses of that semester and all further semesters in new scheme.


However, after absorption, if a course in new scheme is equivalent to some course of previous semesters in old scheme, which the student has already passed, the students shall be given option either to pass that course of new scheme or get exemption from appearing for that course in new scheme.

If the student opts for getting exemption, then in such case the grade of the course of old scheme shall be transferred as it is to the equivalent course of new scheme and the EGP of that course in new scheme shall be calculated as

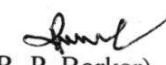
$$\text{EGP in a course of new scheme} = \frac{\text{Grade points} \times \text{Credits in the corresponding course of old scheme}}{\text{Credits in the corresponding course of new scheme}}$$

If the student opts for appearing for that course in new scheme and his/ her performance is not improved, than his/ her earlier performance (performance in the equivalent course of old scheme) shall be retained

Ex.: In M. Tech. Structural Engineering, the course CEP204(A)-Elective-I: Prestressed Concrete, of old scheme (having 4 credits) is equivalent to CEP331 (A)-Programme Elective-III (A): Design of Prestressed Concrete Structures of new scheme (having 3 credits). If a student switching to new scheme in third semester, has passed the course CEP204(A)-Elective-I: Prestressed Concrete of old scheme with grade B, his/ her EGP in this course (in old scheme) would be 28 ($7 \times 4 = 28$). If the student opts for getting exemption from CEP331 (which is equivalent to CEP204-A), he/ she shall be awarded grade B in the course CEP331 (A) – Programme Elective-III (A): Design of Prestressed Concrete Structures of new scheme and his/ her EGP in this course (in new scheme) will be $\text{EGP (in the course CEP331)} = 7 \times 3 = 21$, as the grade points corresponding to grade B are 7, and the course CEP331 (of new scheme) is of 3 credits, hence $\text{EGP} = 7 \times 3 = 21$


(Dr. P. P. Bedekar)
Dean (Academic)

Govt. College of Engineering, Amravati


(Dr. R. P. Borkar)
Principal

Govt. College of Engineering, Amravati

Govt. College of Engineering, Amravati
Department of Civil Engineering

Appendix – A

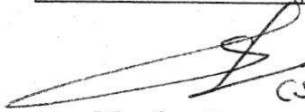
No. GCOEA/CED /REV. CURR./ 2012/ 489

Date: 09.09.2021

Subject: Absorption of students of M. Tech. Programs from old scheme to new scheme

A student of M. Tech. Geotechnical Engineering/ Environmental Engineering and Structural Engineering , switching from old scheme to new scheme shall have to register and pass following additional courses of previous semesters of new scheme:-

Student switching to new scheme in	Shall pass following additional courses of previous semesters of new scheme	
	Course code	Course name
II semester	SHP121	Audit Course I
III semester	SHP121	Audit Course I
	SHP221	Research Methodology
IV semester	SHP121	Audit Course I
	SHP221	Research Methodology


(S.W. Mahan)
Member Secretary
BoS in Civil Engineering


Chairperson
BoS in Civil Engineering

To,
Dean (Academic)
Govt. College of Engineering, Amravati