THANGAL KUNJU MUSALIAR COLLEGE OF ENGINEERING
(Government Aided and Autonomous)
KOLLAM-691005, KERALA

Abstract

TKMCE-Academics- MCA academic regulations 2022 -orders issued

No: ACU3/1075/2022   Date: 01/10/2022

Order

Read:
1. UGC order Ref: F. 22-1/2022(AC) dated 26th May 2022
2. U.O. No. KTU/ASST11(ADMIN)/3212/2022 dated 2nd September 2022
3. ACU3/1010/2022 dated 16th September 2022

The TKM College of Engineering was conferred with autonomous status by the UGC on 26th May 2022 vide Ref: 1 and the same was notified by the APJ Abdul Kalam Technological University, on 2nd September 2022, vide ref.2

The first meeting of the Governing Body after the notification of autonomous status was held on 15th September 2022, authorized the Principal to constitute the Academic council as per the UGC (Conferment of Autonomous Status upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018. As per the resolution of the Governing Body, the Principal has constituted the Academic council on 16th September 2022 vide ref.3. The first Academic council meeting held on 24th September 2022, approved the MCA Regulations for the academic year 2022-23. The academic regulations for the MCA programme, 2022 approved by the Academic Council, is hereby notified as the **TKM College of Engineering (Aided and Autonomous) Academic Regulations for MCA Programme 2022**.
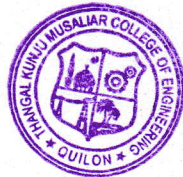
PRINCIPAL

THANGAL KUNJU MUSALIAR
COLLEGE OF ENGINEERING
KOLLAM-5

Copy to All HODs, Deans, IQAC, COE, AA, AO, SS, JS(A

TKM College of Engineering (Government Aided and Autonomous)

Academic Regulations for MCA Programme 2022

This will be known as the TKM **College of Engineering Academic Regulations for MCA Programme2022.** These are subject to the provisions of the UGC (Conferment of Autonomous Status upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018 and APJ Abdul Kalam Technological University Act, 2015, the statutes and ordinances if any issued in the subject from time to time. All the rules specified herein, approved by the Academic council, will be in force and applicable to the students admitted from the Academic year 2022-23 onwards.

PRINCIPAL
THANGAL KUNJU MUSALIAR
COLLEGE OF ENGINEERING
KOLLAM-5

TKM College of Engineering Academic Regulations for MCA Programme 2022

TKM College of Engineering Academic Regulations for MCA
Programme, 2022

ACADEMIC PROGRAMME

Nomenclature of the Programmes:

(a) The College uses the nomenclature for the MCA programmes as specified by the Affiliated University, and the Degree Certificates issued by the University to their awardees bear the name of the College as well. This helps in maintaining the identity of each programme conducted at the College and also ensures its accountability.

(b) Therefore, the nomenclatures and their abbreviations given below, shall continue to be used for the Degree programmes offered by the College:

PG Level:

Master of Computer Applications(MCA)

Programmes Offered

TKM College of Engineering offers the following Two-year MCA Programme under the Parent University-APJ Abdul Kalam Technological University (APJAKTU), Thiruvananthapuram.

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1. PREAMBLE

R1.1	The College has the right to modify the regulations from time to time.
R1.2	In all matters related to the regulations, the decision of the College and its interpretation given by the Academic Council shall be final and binding
R1.3	The MCA Degree of APJ Abdul Kalam Technological University shall be conferred on students who are admitted to the program and who fulfill all the requirements for the award of the Degree.

2. ELIGIBILITY OF ADMISSION

R2.1	Candidates should have passed BCA/B.Sc (Computer Science)/ B.Sc.(IT)/ B.E(CSE)/ B.Tech (CSE), BE(IT)/B.Tech(IT) or equivalent Degree. OR Passed any graduation degree (e.g. B.E/ B.Tech./ B.Sc/ B.Com/ BA/ B.Voc. etc.) preferably with Mathematics at 10+2 level or at Graduation level. For students having no Mathematics background compulsory bridge course will be framed by the respective institution and additional bridge courses related to computer subjects as per the norms of the concerned University
R2.2	Candidates should have obtained at least 50 % marks in the Degree examination. It is 45 % in the case of candidates belonging to reserved category.
R2.3	The reservation policy of the Government of Kerala and the Government of India from time to time shall be followed in admission to the MCA programme.
R2.4	Admission policy, eligibility for admission and admission procedure shall be decided by the competent statutory authority for admissions from time to time.
R2.5	If at any time after admission, it is found that a candidate has not fulfilled any of the requirements stipulated by the statutory body concerned, the Principal may revoke the admission of the candidate and report the matter to the Governing Body.

3. STRUCTURE OF MCA PROGRAM

R3.1	The MCA programme shall be structured on a credit based system following the semester pattern with continuous evaluation.
R3.2	The duration of the MCA programme will be two years consisting of four semesters. The maximum duration shall be, for MCA - four academic years spanning 8 semesters Each semester shall have a minimum of 72 instruction days followed by the end semester examination. The total contact hours are normally 30 hours per week.
R3.3	The duration for the programme will normally be 4 semesters for MCA. In case of prolonged illness or other personal exigencies, the College may allow a student who has earned credits for at least one semester, to extend the programme up to the maximum duration of four years.
R3.4	Every academic year shall have two semesters "1st July to 31st December (Odd semester)" and "1st January to 30th June (Even semester)". The vacation of the faculty and staff shall be as per the Government orders from time to time. The College shall publish academic calendar for each academic year which is to be strictly followed.
R3.5	The MCA Program shall have a curriculum and syllabi for the courses approved by the Academic Council. Syllabus for any course shall be normally modified/ updated on the recommendations of the respective Board of Studies and subject to the approval of the Academic Council. All revisions shall be based only on the recommendations of the Board of Studies concerned.

R3.6	The maximum number of lecture based courses and laboratory courses in any semester shall not exceed 6 and 3 respectively. The maximum number of credits a student can register (course registration) in a semester is limited to 8 credits in excess of the total credits allotted in the curriculum for that semester.
R3.7	A common course structure for the MCA programme is to be followed and consist of the following courses ● Core courses ● Elective courses ● Laboratory courses ● Mini Projects ● Seminar ● Comprehensive Viva ● Main Project ● Non-credit courses
R3.8	Every Course comprises a specific Lecture-Tutorial–Practical (L-T-P) schedule. The course Credits are fixed based on the following norms in Table 1.

Table 1: Course credits

1hour Lecture(L)perweek	1credit
1hour Tutorial (T) per week	1credit
1to2 hoursPractical(P)perweek	1credit
3to4 hoursPractical(P)perweek	2credit
2 hour Seminar per week	2credit
4 hours Mini Project per week	2credit
Comprehensive viva	6 credit
Main Project	12credit
Non-credit courses	No credit

The distribution of credits for the course work is given in Table 2.

Table 2: Distribution of credits among the Semesters for MCA

Sem	Course details	Hours per week	Total credits allotted	Credits allotted semester-wise
I	Core courses: 4nos	4 each	4x4 = 16	
	Lab courses: 3nos	4 each	3x2 = 6	22
	Entrepreneurship and innovations in Technology	1 hours	No credit	
II	Core courses: 2nos	4 each	2x4 = 8	

		Elective: 2nos	4 each	2x4 = 8	
		Lab courses: 3nos	4 each	3x2 = 6	22
		Industrial Readiness Training	1 hours	No credit	
	III	Core Courses: 2 nos	4 each	2x4 = 8	
		Electives : 2 nos	4 each	2x4 = 8	22
		Lab courses:2 nos	4 each	2x2 = 4	
		Mini Project	4 hours	1*2=2	
		Domain Expertise Workshop	1 hours	No credit	
	IV	Main Project	27 hours	12	
		Seminar	2 hours	2	
		Comprehensive Viva voce		6	20
		Total Credits in all four semesters			**86**

R3.9	The medium of instruction shall be English. All examinations, project, seminar, Reports and presentations shall be in English.
R3.10	Revision of Regulations notwithstanding all that has been stated above, the statutory bodies has the right to modify any of the regulations, scheme of studies, examinations and syllabi from time to time.

4. ACADEMIC MONITORING AND STUDENT SUPPORT

R4.1	There shall be one Faculty Advisor (FA) for a class. The Principal shall assign a regular faculty member with minimum two years of experience as the FA in discussion with the Head of the Department.
R4.2	The documents regarding all academic and non-academic matters of students shall be kept under the custody of Faculty Advisor.
R4.3	All requests/applications from a student or parent to higher offices are to be forwarded/recommended by his/her Faculty Advisor. Students and parents shall first approach their Faculty Advisor for all kinds of advices, clarifications and permissions on all academic matters. It is the official responsibility of the institution to provide the required guidance, clarifications and advices to the students and parents strictly based on the prevailing academic regulations.
R4.4	The Faculty Advisor (FA) shall arrange separate or combined meetings with course faculty, parents and students as and when required and discuss the academic progress of students. The Faculty Advisor shall also offer guidance and help to solve the issues on academic and non-academic matters including personal issues of the students. Advisory meetings shall preferably be convened: i. Immediately after the commencement of the semester. ii. Immediately after announcing the marks of first internal evaluation test. The internal marks and eligibility of attendance shall be uploaded in the College portal only after displaying the same in the department notice board at least for two working days. This is for the information and feedback of the students. Any concerns raised by the students regarding attendance and internal marks shall be looked into in the combined meetings of advisor, course faculty and the students concerned. The Principal/Head of the Department shall ensure to take steps to redress the concerns raised by the students regarding internal assessment and attendance. The FA shall be the custodian of the minutes and action taken reports of the advisory meetings.
R4.5	The FA shall get the minutes and action taken reports of advisory meetings approved by the Head of the Department. It shall be the duty of the Head of the Department to produce it before the statutory bodies as and when required.
R4.6	The FA shall keep a hardcopy of the consolidated statement of attendance, internal marks of the students in their advisory group. It shall be kept with the Head of the Department without fail for all sorts of inspections.

R4.7	Regular communication with the parents of students in respect of progress in academic matters and other general issues shall be the responsibility of the Faculty Advisor.
R4.8	The Principal shall inform/forward all regulations, guidelines, communications, announcements etc., issued by the statutory bodies regarding student academic and other matters to the Head of the Department /FA for information and timely action.
R4.9	It shall be the official responsibility of the Principal to arrange necessary orientation programmes to the Head of the Department and FAs regarding student counseling, the prevailing norms, regulations, guidelines and procedures on all academic and other related matters.
	5.0 COURSE REGISTRATION AND ENROLMENT
R5.1	It is mandatory for students to register for the courses they want to attend in a Semester. Students have to register for all courses offered in the first semester at the time of admission and for all courses offered in the second semester before the commencement of second semester. Similarly the students need to register for third and fourth semester.
R5.2	The dates for registration and enrolment will be given in the academic calendar. Any late enrolment, allowed up to 7 working days from the commencement of the semester, will attract a late enrolment fee.
R5.3	A student will become eligible for enrolment only if he/she has registered for the previous semester. In addition he/she has to clear all dues to the Institute up to the end of the previous semester and also he/she and should not have any pending disciplinary proceedings.
R5.4	In extraordinary circumstances like medical grounds, a student may be permitted to withdraw from a semester completely. Normally a student will be permitted to withdraw from the programme only for a maximum continuous period of two semesters.
	6. EVALUATION PROCESS
R6.1	Candidates in each semester shall be evaluated both by Continuous Internal Evaluation (CIE) and End Semester Examinations (ESE). There shall be ESE in every semester for all courses as prescribed under the respective curriculum, except for Non-credit courses, Mini Project and Seminar. Semester classes shall be completed at least ten days before the commencement of the ESE.

R6.2	For MCA, the student should successfully complete two MOOCs to be eligible for the award of MCA Degree. The students shall enroll and successfully complete at least one MOOC from the list of MOOCs approved by the Academic Council during their first year (before the second semester examinations). The second MOOC should be completed before the completion of their second year. Second semester results will be published only after the submission of the successful course completion certificate of the first MOOC and fourth-semester results will be published only after the submission of the certificate of the second MOOC. The approved list of MOOCs is given in Annexure 1.
R6.3	The ESE shall be held twice in a year – May/June (for even semesters) and November/December (for odd semesters). However, the ESE of the third and fourth semesters shall be conducted in both the sessions.
R6.4	Candidates in each semester shall be evaluated both by Continuous Internal Evaluation (CIE) and End Semester Examinations (ESE). The ratio of CIE to ESE shall be as below: 1. Theory Courses : 1 : 1.5 2. Laboratory Courses : 1 : 1 3. Mini Projects : CIE only 4. Seminar : CIE only 5. Comprehensive Viva : ESE only 6. Main Project : CIE by Supervisors (30 marks) and a Committee (40 marks) separately and ESE by External Expert (30 marks).

R6.5	Continuous Internal Evaluation (CIE)): The CIE shall be on the basis of the day-to-day work, periodic tests (minimum two in a semester) and assignments (minimum two). The faculty member (s) concerned shall carry out the CIE for the course allotted to him/her. The CIE marks for individual subjects shall be computed by giving weightage to the following parameters unless otherwise specified in the curriculum.

Course	Class Participation and Attendance	Tests/Evaluation	Assignment /Class work
Theory	20%	50%	30%
Practical	20%	40%	40%
Mini Project	10%	50%	40%
Main Project	Project evaluation by the supervisor(s) : 30 Marks Presentation and Evaluation by the Committee : 40 Marks		
Seminar	Scope and relevance of topic – 20% Attendance– 10% Presentation – 30% Technical content – 20% Report – 20%		

There shall be minimum two internal evaluation tests, each of 2hrs duration. Each test shall cover 50% of the syllabus and shall be for 50marks. Retest shall be permitted to the students who could not appear for the internal tests due to genuine grounds.

The CIE marks for the attendance for each theory, practical and seminar shall be awarded in full, only if the candidate has secured 90% attendance or above in the subject. If a student has attendance for a subject below 90%, reduction in the marks for the attendance shall be made proportionally. The CIE marks obtained by the student for all courses in a semester are to be published at least 5 days before the commencement of the ESE. Duty leave shall be accounted for awarding the internal marks for attendance.

R6.6	Students, who have completed a course but could not write the ESE, shall be awarded "ab" Grade, provided they meet other eligibility criteria (R.6.7). They shall register (exam registration) and appear for the ESE at the next opportunity and earn the credits without having to register (course registration) for the course again.
R6.7	The main eligibility criteria for registering to the ESE are attendance in the course and no pending disciplinary action. The minimum attendance for appearing for the ESE is 75% in each course. Students who do not meet these eligibility criteria are awarded an FE grade.
R6.8	The students with FE grade shall register for the courses during the normal semesters in which the courses are offered.
R6.9	A student who does not register for all the courses listed in the curriculum for a semester shall not be eligible to enroll for the next higher semester.
R6.10	A student will be eligible for the award of MCA Degree of the University on satisfying the following requirements: 1. Fulfilled all the curriculum requirements within the stipulated duration of the course. 2. Earned the required minimum credits as specified in the curriculum 3. No pending disciplinary action.
R6.11	Students registered for a course have to attend the course regularly and undergo the CIE and appear for the ESE. Credits for the course are deemed to be earned only on getting at least a pass Grade 'P' or better in the composite evaluation.
R6.12	Pass minimum for a course shall be 40% for the ESE and 50% of CIE and ESA put together. Letter grade 'F' will be awarded to the student for a course if either his/her mark for the ESE is below 40 % or the overall mark [Continuous Internal Evaluation (CIE) + End Semester Examination (ESE)] is below 50 %.
R6.13	Students who received F grade in an End Semester Examination shall have to appear for the End Semester Examination at the next opportunity and earn the credits. They shall not be permitted to register for the course again.
R6.14	Continuous Internal Evaluation mark percentage shall not exceed 30% over the End Semester Examination mark%. CIE marks awarded to a student shall be normalized accordingly. e.g. If the end semester mark % is 40, then the maximum eligible CIE mark% is 40+30 = 70 %.)
R6.15	Grading is based on the overall % marks obtained by the student in a course, as given in 6.16. The grade card shall only give the grades against the courses the student has registered. Semester grade card shall give the grade for each registered course,

	Semester Grade Point Average (SGPA) for the semester as well as Cumulative Grade Point Average (CGPA).
R6.16	

<table>
<tr><th colspan="3">Grade and Grade Points</th></tr>
<tr><th>Grades</th><th>Grade Point (GP)</th><th>% of Total Marks obtained in the course</th></tr>
<tr><td>S</td><td>10</td><td>90% and above</td></tr>
<tr><td>A+</td><td>9.0</td><td>85% and above but less than 90%</td></tr>
<tr><td>A</td><td>8.5</td><td>80% and above but less than 85%</td></tr>
<tr><td>B+</td><td>8.0</td><td>75% and above but less than 80%</td></tr>
<tr><td>B</td><td>7.5</td><td>70% and above but less than 75%</td></tr>
<tr><td>C +</td><td>7.0</td><td>65% and above but less than 70%</td></tr>
<tr><td>C</td><td>6.5</td><td>60% and above but less than 65%</td></tr>
<tr><td>D</td><td>6.0</td><td>55% and above but less than 60%</td></tr>
<tr><td>P (Pass)</td><td>5.5</td><td>50% and above but less than 55%</td></tr>
<tr><td>F (Fail)</td><td>0</td><td>Below 50% (CIE + ESE) or Below 40 % for ESE</td></tr>
<tr><td>FE</td><td>0</td><td>Failed due to lack of eligibility criteria (R6.7)</td></tr>
<tr><td>ab</td><td>0</td><td>Could not appear for the end semester examination but fulfills the eligibility criteria.</td></tr>
<tr><td rowspan="2">Classification of MCA Degree.</td><td>First Class with Distinction</td><td>CGPA 8.0 and above</td></tr>
<tr><td>First Class</td><td>CGPA 6.5 and above</td></tr>
</table>

	Equivalent percentage mark shall be = 10 * CGPA – 2.5
R6.17	There shall be double valuation of theory papers for which end semester examinations are conducted. The theory answer script shall be valued independently by the two examiners appointed by the Controller of Examinations. If the difference between the marks awarded by the two Examiners is not more than 15% of the maximum marks, the marks awarded to the candidate shall be the average of two evaluations. If the difference between the marks awarded by the two examiners is more than 15% of the maximum marks, the script shall be evaluated by a third examiner. The average of the marks of nearest two valuations shall be considered as the marks secured by the candidate. However, if one of the three marks falls exactly midway between the other two, then the highest two marks shall be taken for averaging. There is no provision for revaluation of the semester answer scripts for improving the grade.
R6.18	Students who are in the 'failed' status on declaration of results can apply for review. This facility will be available after obtaining the answer scripts' copy after the declaration of results. Students have to submit their review request, within fifteen days of the

	declaration of results, in the prescribed format recommended by a competent/mapped faculty, endorsed by the head of the department to the Controller of Examination. The fee for review will be Rs.5000/- per answer script of which Rs.3000/- will be refunded in case of a grade change after the review. The paid amount of Rs.5000/- will be forfeited in case of no grade change after the review. The review will be carried out by a competent/mapped faculty with a minimum of three years' experience. The result of the review will be final and no appeal will be entertained thereafter.
R6.19	Grade cards shall be made available in the student login for the registered courses, in every semester. On earning the required credits for the degree, the University will issue the final consolidated grade sheet for the MCA program including CGPA.
R6.20	**Calculation of SGPA/CGPA** Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) are calculated as follows. SGPA = $\Sigma(C_i \times GP_i)/\Sigma C_i$, where 'Ci' is the credit assigned for a course and 'GPi' is the grade point for that course. Summation is done for all courses specified in the curriculum of that semester. The failed and incomplete courses shall also be considered in the calculation. CGPA = $\Sigma(C_i \times GP_i)/\Sigma C_i$, where 'Ci' is the credit assigned for a course and 'GPi' is the grade point for that course. Summation is done for all courses specified in the curriculum up to that semester for which the 'CGPA' is needed. Here the failed courses shall also be accounted. CGPA for the MCA programme is arrived at by considering all course credits that are needed for the degree and their respective grade points.
R6.21	Any act of violation of indiscipline, misbehavior, or unfair practice in examinations from the part of students, faculty members, staff or any other source shall be viewed very seriously. It is the legal responsibility of the Controller of Examinations, to see that the examinations are conducted strictly as per the Examination Manual. Malpractices in examinations observed or reported by an official employed by the College / faculty member / invigilator shall be immediately reported to the Deputy Controller of Examinations. The Deputy Controller of Examinations shall in turn conduct a preliminary enquiry giving the student concerned a chance to explain his/her case and then forward the case with his/her preliminary enquiry report and remarks to the Controller of Examinations along with all related documents and evidences within two working days. The Controller of examination shall decide the course of action on the issue as per the prescribed norms in the Examination Manual.
	7. Break of Study
R7.1	A student is permitted to avail break of study: i) In case of accident or serious illness needing prolonged hospitalization and rest. ii) In case the student has a bright idea and would like to initiate a start-up venture or develop a product.

	iii) In case of any personal reasons that need a break in study. iv) For internship leading to employment. For break of study due to illness, student shall submit all necessary medical reports together with the recommendation of the doctor treating him giving definite reasons for break of study and its duration. Before joining back, the student should submit the fitness certificate from the doctor who treated him. Students who want to initiate a start-up venture or a product development, have to submit a project report, clearly indicating the purpose, action plan, technical details, funding details and future plans to the college Principal. The Principal shall evaluate the proposal by constituting an expert team consisting of a technocrat and a bank executive and take an appropriate decision based on the team's recommendation. The break of study for the startup shall be permitted only after the 2nd semester for a maximum duration of two semesters. This is however permitted only on successfully completing the courses listed out in the first semester. Students who require a break in study due to personal reasons shall convince the Principal on the genuine need for it by giving authentic evidence for the same. Students who require break in study for 'internship leading to employment' shall produce the offer letter obtained from the employer concerned. The principal shall verify the authenticity of the offer. Only campus placed students with an annual compensation more than 6 lakhs are eligible to avail this facility. In the semester system, break of study for an academic year is the preferred option than break of study for a semester. The student can avail the break of study only with the prior approval of the statutory bodies. The Principal shall present the request of the student with all relevant documents to the statutory bodies with his/her recommendations. Students shall have to rejoin on the first working day of the same semester on which he/she had started availing the break of study.
	8.Attendance
R8.1	Students are expected to attain 100% attendance for all courses. However, under unavoidable circumstances they are permitted to avail leave. Total leave of absence shall not exceed 25% of the academic contact hours for a course and 75% attendance is mandatory for registering to the end semester examination. On medical ground the college Principal can relax the minimum attendance requirement to 60%, to write the end semester examination. This is permitted for one or more courses registered in the semester. Principal shall keep all records which led to his decision on attendance, for verification by the IQAC. This provision is applicable only to any two semesters during the entire program period. In case of prolonged illness, break of study is permitted as per R7.1.

R8.2	The Principal is authorized to grant attendance relaxation (duty leave) to the students participating in officially sponsored national level competitions/championships/ tournaments when called upon to do so, up to a maximum of 10%. Such students should produce the participation certificate countersigned by the Head of the Department of Physical Education in the case of sports activities and the Faculty Advisor in the case of other extracurricular activities, within ten days of the event. The participation certificate thus produced shall be forwarded to the Principal with the due recommendation of the Head of the Department. Under any circumstances, the principal shall not consider the certificate if the overall attendance of the candidate is less than 60%. Late applications received shall not be considered on any account. The student shall get official prior permission from the University for representing the University.
R8.3	The Principal is authorized to grant attendance relaxation (duty leave) to the students for organizing extra/ co-curricular activities, up to a maximum of 5%. Such students should produce the required documents countersigned by the Head of the Department of Physical Education in the case of sports activities and the Faculty Advisor in the case of other extra/ co-curricular activities: within ten days of the events. The documents thus produced shall be forwarded to the Principal with the due recommendation of the respective Head of the Department. Under any circumstances, the principal shall not consider the documents, if the overall attendance of the candidate is less than 60%. Late applications received shall not be considered on any account.
	9. Academic Auditing
R9.1	There shall be academic auditing in each department at stipulated intervals. The academic auditing shall be conducted by the Internal Quality Assurance Cell (IQAC). The IQAC shall oversee and monitor all the academic activities including all internal evaluations and examinations. The IQAC shall prepare/update formats for the academic audit in each semester at regular intervals. The academic audit report shall be submitted to the Principal for the consideration of the statutory bodies concerned. Academic auditing shall cover:- 1. Course delivery and adherence to the course plan, syllabus coverage, quality of question papers used for internal examinations, internal evaluation, maintenance of laboratory experimental set ups and equipment, practical assignments, mini projects and conduct of practical classes and their evaluation. 2. Co-curricular and Extra-curricular activities available for students. 3. Academic functioning of the college encompassing students, faculty and college administration covering punctuality, attendance, discipline, academic, environment, learning ecosystem, academic accountability, academic achievements and benchmarking. The audit shall also cover the quality criteria prescribed by NBA/NAAC.
	10. Grace Marks for Sports /Arts Competitions.
R10.1	Only bona-fide, regular candidates are eligible for the award of Grace Marks.

R10.2	The criterion for the award of Grace Marks is representing the University in officially sponsored national level competitions/championships/ tournaments when called upon to do so. The student shall get official prior permission from the University for representing the University.
R10.3	The maximum grace marks that can be awarded to a candidate in a particular semester for all activities put together shall be 5% of the aggregate maximum End Semester Examination marks of all theory courses.
R10.4	The maximum grace marks that can be awarded to a student for a theory course in a particular semester for all activities put together shall not exceed 10% of the maximum aggregate marks of ESE of the course.
R10.5	The Grace Marks shall not be awarded to a student for Practical/ Lab/ Viva Voce/ Internal assessment/ Seminar etc., even though she/he fails for the same.
R10.6	Eligible Grace Marks shall be distributed equally on all theory papers/courses of an examination. However, re-distribution of Grace Marks shall be allowed only in the case of those courses of an examination for which the candidate has passed. Re-distribution is possible from passed courses to failed courses only. Re-distribution of Grace Marks is not permissible from failed courses to other courses for a pass.
R10.7	The Grace Marks shall be awarded for all theory papers/courses/subjects in a semester.
R10.8	Re-distribution shall be done only for enabling a candidate to obtain the minimum marks required for a pass.
R10.9	Grace Marks shall not be re-distributed from one semester to another semester.
R10.10	If the candidate does not secure the minimum marks required for a pass even after effecting re-distribution, eligible moderation fixed by the respective board if any, shall be awarded to that candidate in addition to the Grace Marks for a pass.
R10.11	Eligible Grace Marks shall be awarded for the regular examination of the performing semester only. Grace Marks shall not be awarded for supplementary examinations.
R10.12	The performing semester shall be considered from 1st July to 31st December (Odd semester) and 1st January to 30th June (Even Semester).
R10.13	Grace Marks shall be awarded on the basis of performance in the respective semester.
R10.14	The request for Grace Marks shall be submitted to the Controller of Examinations through the FA/HoD along with all relevant documents, within the time limit prescribed by the College. The request for Grace Marks received after the time limit shall not be entertained on any account.
R10.15	Only a single highest achievement during the period of a semester shall be considered for awarding the grace marks.
11.Grace Marks For Persons With Disability (PWD)	
R11.1	To be eligible for the grace marks, the certificate of disability specifying the percentage of disability certified by the District Medical Board shall be produced before the Principal at the time of admission. Profoundly deaf candidates with disability 40% or above or hearing impaired candidates with disability 70% or above are eligible for the award of Grace Mark. In case of any other disability of more than 60% duly certified by the District Medical Boards, students will be eligible for grace marks.

R11.2	The Grace Marks that can be awarded for differently-abled candidates is 25% of the marks scored by the candidate in each course at the time of finalization of the results.
R11.3	Transfer of marks from one paper to another shall not be permitted. Fractions of marks if any, while computing the Grace Marks shall be discarded.
R11.4	Differently-abled candidates who are eligible for Grace Marks shall be awarded Grace marks for regular and supplementary chances until they pass the whole examination.
R11.5	Grace Marks shall be awarded only for the marks of the End Semester Examinations conducted by the College. Grace Marks shall be awarded for enabling differently-abled candidates to obtain the minimum marks required for a pass for Viva Voce/ Seminar. However the maximum grace marks awarded in this case shall not be more than 25% of the marks scored by the candidate in each course.
R11.6	The request for Grace Marks shall be submitted to the Controller of Examinations through the FA/HoD along with all relevant documents, within the time limit prescribed by the College.
R11.7	The request for Grace Marks received after the time limit shall not be entertained on any account.

	12. Transitory Provision
12.1	Notwithstanding anything contained in these regulations, the statutory bodies shall have the power to provide by order that these regulations shall be applied with any modifications as may be necessary.

ANNEXURE:1

The list of MOOC for MCA 2022

SI no	Course Id	Discipline	Course Name	SME Name	Institute	Coordinating Institute	Duration
1	noc22-cs67	Computer Science and Engineering	Artificial Intelligence :Search Methods For Problem solving	Prof. Deepak Khemani	IITM	IITM	12 Weeks
2	noc22-cs87	Computer Science and Engineering	Cloud Computing	Prof. Soumya KantiGhosh	IITKGP	IITKGP	12 Weeks
3	noc22-cs126	Computer Science and Engineering	Computational Complexity	Prof. Subrahmanyam Kalyanasundaram	IIT Hyderabad	IITM	12 Weeks
4	noc22-cs88	Computer Science and Engineering	Computer Architecture And Organization	Prof. Indranil Sengupta Prof. Kamalika Datta	IITKGP	IITKGP	12 Weeks
5	noc22-cs90	Computer Science and Engineering	Cryptography And Network Security	Prof.Sourav Mukhopadhyay	IITKGP	IITKGP	12 Weeks
6	noc22-cs92	Computer Science and Engineering	Data Structure And Algorithms Using Java	Prof. Debasis Samanta	IITKGP	IITKGP	12 Weeks
7	noc22-cs124	Computer Science and Engineering	Deep Learning – IIT Ropar	Prof. Mitesh M. Khapra Prof. Sudarshan Iyengar	IIT Ropar	IITM	12 Weeks
8	noc22-cs76	Computer Science and Engineering	Deep Learning for Computer Vision	Prof. Vineeth N Balasubramanian	IITH	IITM	12 Weeks
9	noc22-cs125	Computer Science and Engineering	Design & Implementation of Human-Computer Interfaces	Prof. Samit Bhattacharya	IITG	IITG	12 Weeks

10	noc22-cs123	Computer Science and Engineering	Discrete Mathematics	Prof. Sudarshan Iyengar	IIT Ropar	IITM	12 Weeks
11	noc22-cs85	ComputerScience and Engineering	Discrete Mathematics -IIITB	Prof. Ashish Choudhury	IIIT Bangalore	IISC	12 Weeks
12	noc22-cs82	Computer Science and Engineering	Getting Started with Competitive Programming	Prof. Neeldhara Misra	IIT Gandhinagar	IITM	12 Weeks
13	noc22-cs95	Computer Science and Engineering	Introduction To Industry 4.0 And Industrial Internet Of Things	Prof. SudipMisra	IITKGP	IITKGP	12 Weeks
14	noc22-cs96	Computer Science and Engineering	Introduction To Internet Of Things	Prof. SudipMisra	IITKGP	IITKGP	12 Weeks
15	noc22-cs73	Computer Science and Engineering	Introduction to Machine Learning	Prof. Balaraman Ravindran	IITM	IITM	12 Weeks
16	noc22-cs100	Computer Science and Engineering	Operating System Fundamentals	Prof. Santanu Chattopadhyay	IITKGP	IITKGP	12 Weeks
17	noc22-cs101	Computer Science and Engineering	Problem Solving Through Programming In C	Prof. Anupam Basu	IITKGP	IITKGP	12 Weeks
18	noc22-cs102	Computer Science and Engineering	Programming In Java	Prof. Debasis Samanta	IITKGP	IITKGP	12 Weeks
19	noc22-cs103	Computer Science and Engineering	Programming In Modern C++	Prof. Partha Pratim Das	IITKGP	IITKGP	12 Weeks

20	noc22-cs75	Computer Science and Engineering	Reinforcement Learning	Prof. Balaraman Ravindran	IITM	IITM	12 Weeks
21	noc22-cs117	Computer Science and Engineering	Social NetworkAnalysis	Prof. Tanmoy Chakraborty	IIITD	IITM	12 Weeks
22	noc22-cs121	Computer Science and Engineering	Social Networks	Prof. Sudarshan Iyengar	IIT Ropar	IITM	12 Weeks
23	noc22-cs106	Computer Science and Engineering	Software Engineering	Prof. Rajib Mall	IITKGP	IITKGP	12 Weeks
24	noc22-cs107	Computer Science and Engineering	Software Project Management	Prof. Rajib Mall Prof. Durga Prasad Mohapatra	IITKGP	IITKGP	12 Weeks
25	noc22-cs61	Computer Science andEngineering	SoftwareTesting	Prof. MeenakshiD'souza	IIITB	IITM	12 Weeks
26	noc22-cs122	ComputerScience and Engineering	The Joy of Computing using Python	Prof. Sudarshan Iyengar	IIT Ropar	IITM	12 Weeks
27	noc22-ma69	Mathematics	Foundations of R Software	Prof. Shalabh	IITK	IITK	12 Weeks
28	noc22-ma81	Mathematics	Introduction to Probability Theory and Statistics	Prof. S. Dharmaraja	IITD	IITD	12 Weeks
29	noc22-ge29	Multidisciplinary	Fundamentals Of Artificial Intelligence	Prof. Shyamanta M. Hazarika	IITG	IITG	12 Weeks

30	noc22-cs65	Computer Science and Engineering	Big Data Computing	Prof. Rajiv Misra	IIT Patna	IITK	8Weeks
31	noc22-cs111	Computer Science and Engineering	Computer Graphics	Prof. Samit Bhattacharya	IITG	IITG	8weeks
32	noc22-cs91	Computer Science and Engineering	Data Base Management System	Prof. Partha Pratim Das Prof. Ansuman Banerjee Prof. Kausik Datta	IITKGP	IITKGP	8Weeks
33	noc22-cs72	Computer Science and Engineering	Data Science for Engineers	Prof. Ragunathan Rengasamy Prof. Shankar Narasimhan	IITM	IITM	8Weeks
34	noc22-cs71	Computer Science and Engineering	Design and analysis of algorithms	Prof. Madhavan Mukund	CMI	IITM	8Weeks
35	noc22-cs69	Computer Science and Engineering	Introduction To Haskell Programming	Prof. S. P. Suresh	CMI	IITM	8Weeks
36	noc22-cs97	Computer Science and Engineering	Introduction To Machine Learning-KGP	Prof. Sudeshna Sarkar	IITKGP	IITKGP	8Weeks
37	noc22-cs78	Computer Science and Engineering	Introduction to Operating Systems	Prof. Chester Rebeiro	IITM	IITM	8Weeks
38	noc22-cs119	Computer Science and Engineering	Machine Learning for Earth System Sciences	Prof. Adway Mitra	IITKGP	IITKGP	8Weeks
39	noc22-cs99	Computer Science and Engineering	Object Oriented Analysis And Design	Prof. Partha Pratim Das Prof. Ansuman Banerjee Prof. Kausik Datta	IITKGP	IITKGP	8Weeks

40	noc22-cs70	Computer Science and Engineering	Programming, Data Structures And Algorithms Using Python	Prof. Madhavan Mukund	CMI	IITM	8Weeks
41	noc22-cs105	Computer Science and Engineering	Scalable Data Science	Prof. Anirban Dasgupta Prof. Sourangshu Bhattacharya	IITKGP	IITKGP	8Weeks
42	noc22-cs63	Computer Science and Engineering	Theory of Computation	Prof. Raghunath Tewari	IITK	IITK	8Weeks
43	noc22-mg87	Management	Descriptive Statistics With R Software	Prof. Prashant Jha Prof. Shalabh	IITK	IITK	8Weeks
44	noc22-ge23	Multidisciplinary	Introduction to Research	Prof. Edamana Prasad Prof. Prathap Haridoss	IITM	IITM	8Weeks