



NEW HORIZON
COLLEGE OF ENGINEERING

**Office of Vice Principal
(Academics)**



28th Academic Council Meeting AY 2026-2027

29th August 2026



**NEW HORIZON
COLLEGE OF ENGINEERING**

New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

OFFICE OF VICE PRINCIPAL
[ACADEMICS]

28th Academic Council Meeting

AY 2026-2027

29th August 2026

ACADEMIC COUNCIL MEETING – AY 2026-27

AGENDA

Date: 29/08/2026

Venue: Conference Hall/Blended Mode

Time: 10.00 AM to 12.30 PM

AGENDA:

- Discussion of Scheme of Study for 2nd year and 3rd year UG Programs for the AY 2026-27 based on VTU guidelines
- Proposal and approval of scheme of study for PG programs for the AY 2026-27
- Proposed reforms in Teaching and Learning processes and evaluation process.
- Result analysis of UG Programs
- Research and Development Programs
- Skill Development activities
- IQAC Activities
- Any other points with approval of Chairman.

ACM MEMBERS LIST



NEW HORIZON COLLEGE OF ENGINEERING

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Office of Vice Principal-Academics

Tel: 080 66297777, Extn: 2126

Email: vp_academics@newhorizonindia.edu

Members for Academic Council Meeting

AY : 2026-27

Sl. No.	Category	Name
1	Principal of the College – Chairman	Dr. Manjunatha
2	Director – Library and Alumni Relations	Dr. Anitha S Rai
3	Controller of Examination	Dr. Vijilius H Raj
4	Dean – R&D	Dr Revathi V
5	Dean - IQAC	Dr. M Babita Kumari Jain
6	Dean – Computer Science and Engineering	Dr. Uma Reddy M V
7	All Heads of the Dept. – Members	Dr. Vandana C P
		Dr. Anusuya Devi V S
		Dr. M Raja
		Dr. Asha Joseph
		Dr. Baswaraju Swathi
		Dr. Sujitha S
		Dr. Aravinda K
		Dr. D V Sreekanth .
		Dr. Asha V
		Dr. Dhanalakshmi R V
8	Teachers of the College representing different level of teaching staff	Dr. Kalaivani D, Associate Professor, Dept of ISE
		Dr M. Jayanthi, Associate Professor, Dept of ECE
		Dr. D Roja Ramani , Associate Professor, Dept of CSE
		Dr. J Karthiyayini J, Associate Professor, Dept of AIML
		Prof. Asha Rani Borah, Sr Assistant Professor, Dept of CSE, NHCE
		Dr Karthika M, Associate Professor, Dept of EEE
		Dr. J. Joshua Daniel Raj, Associate Professor, Dept of CSE

		Dr Srinath M K, Associate Professor, Dept of Mechanical Engg
		Dr Arpana Prasad, Associate Professor, Dept of MCA
		Dr Prashanth K S, Professor, Dept of Applied Science
		Dr. Sreoshi Das Gupta, Associate Professor, Dept of MBA
9	Experts from outside the college representing areas such as industry, R & D, Tech. Edn	Dr K N Subramanya, Principal – R V College of Engineering, Bengaluru
		Mr. Rajesh Kumar Sakri, Segment Head, Europe/UK, TCS, Bengaluru.
		Mr. Ananthamani, Vice President – PLM & Mech/Elec, Capgemini Engineering
10	Nominees of University (VTU)	Dr. Shadashive Gowda, Principal-Vidya Vardhaka College of Engineering, Mysore
		Dr. Shivyogimath, Prof., Dept. of Civil Engineering, Basaveswara Engineering College, Bagalkot
11	Vice Principal-Academics – Member Secretary	Dr. R. J. Anandhi

Anandhi
Vice Principal 20/8/26
(Academics)

Mayur
Principal 20/8/2026

ACM Minutes of Meeting

MINUTES OF THE 28th ACADEMIC COUNCIL MEETING
Academic Year 2026-27

1. Meeting Particulars

Date and Time	29 August 2026 – 10.00 am to 01.00 pm
Meeting	28th Academic Council Meeting (ACM)
Venue	Principal – Conference Room
Chair	Principal, New Horizon College of Engineering
Member Secretary	Vice Principal-Academics, New Horizon College of Engineering
External Expert / Special Invitee	Dr. K. N. Subramanya, Principal, R.V. College of Engineering, Bengaluru Dr. Sadashiva Gowda, Principal, Vidhya Vardhaka college of Engineering, Mysore
Other Members	Academic Council members
Purpose	Review, deliberation and approval/recommendation of academic schemes, Teaching-learning reforms, R&D, Skill development, IQAC, Results and examination reforms for AY 2026-27

2. Opening of the Meeting

The 28th Academic Council Meeting was convened on 29 August 2026. The Principal welcomed the Academic Council members and the invited expert, Dr. K. N. Subramanya, Principal, R.V. College of Engineering, Bengaluru and Dr. Sadashiva Gowda, Principal, Vidhya Vardhaka college of Engineering, Mysore. The Chair acknowledged the participation of the Council members and initiated the meeting with the agenda placed before the Council.

The agenda items were taken up sequentially. The presentations were discussed by the Council, and observations/suggestions were recorded for incorporation in the respective academic and administrative processes.

Agenda 1: Scheme of Study for 2nd Year and 3rd Year UG Programmes – AY 2026–27

2.1 Presentation / Background

The proposed UG schemes, including the VTU-aligned salient features, were placed before the Council. The scheme for the relevant batches, including the 2025 batch under the 2025 scheme and the 2024 batch under the 2024 scheme, was discussed.

Discussion and Deliberations

- Mathematics courses and their positioning in the semester structure were discussed. The Council noted the need for appropriate departmental ownership and academic continuity of Mathematics courses.
- The inclusion of Community Project and Environmental Science Project components was discussed. It was suggested that projects should address genuine community/environmental challenges and, wherever feasible, move beyond documentation towards a demonstrable solution or prototype.
- The Principal suggested that Community/Environmental projects may use problem statements and information available through appropriate Government portals/websites so that students can identify authentic problems and develop suitable solutions.
- The Council emphasized that project work should have clear problem statements, defined outcomes and evidence of student contribution.
- The VTU skill-lab component carrying 5 credits was discussed for the 2025 batch. The proposed pathway includes self-learning and certification, with a 30-hour course corresponding to 1 credit, and a set of five certifications.
- For the 2025 batch, the skill-lab/self-learning pathway was discussed from Semester III. For the 2026 batch, the implementation was discussed from the first semester as indicated by VTU.
- The Council discussed simplification of the certification/skill pathway and completion within the prescribed semester window. Suggested for 2025 batch to complete 5 credits by Semester 06 itself (May be distributing 2 credits in sem or 1.5 in two semesters)
- Capstone Project Phase I and Phase II were discussed. Phase I is planned in Semester VI and Phase II in Semester VII. The Council emphasized delinking the two phases so that Phase II is a logically not the continuation of Phase I.
- The project progression was discussed in terms of a minor-project followed by a major-project, with scope for suitable projects to lead to publications, patents or products.
- The mandatory/common components such as Yoga, NSS, Physical Education and Music were discussed, including their treatment within the Academic Enrichment Course structure in the first year Ability enhancement courses. Also, Inclusions of Dance and Photography were discussed.
- The Council discussed the need for common/unified learning outcomes and consistency in curriculum delivery and evaluation across departments.
- The General Scheme was reviewed with a suggestion to use the terminology 'Humanities and Social Sciences (HSS)' in place of 'HSMS', wherever applicable.

- The Term Work (TW) and Self-Learning (SL) components were discussed, with 15 hours proposed/indicated for each component. The Council emphasized that these components should have clear academic purpose and appropriate faculty planning.
- The importance of lecture delivery and classroom engagement was highlighted. The Council also noted the need to ensure appropriate distribution of the overall 160 credits across the programme.
- The 2024 scheme was discussed with emphasis on problem-solving, critical thinking and creative thinking. Problem-solving methodology and advanced problem-solving methodology were suggested across the appropriate semesters.

Suggestions / Recommendation of the Council

- The Council recommended approval/implementation of the UG scheme subject to incorporation of the observations and refinements recorded during the meeting.
- Course titles in emerging/technology areas should remain technology-neutral and should not be tied unnecessarily to a particular company or vendor name.
- Elective and course nomenclature should be periodically reviewed so that the scheme remains relevant despite changes in technology.
- The project components shall emphasize authentic problem identification, solution development and, where appropriate, prototyping.
- The skill-lab and certification pathway shall be streamlined and monitored for timely completion.
- Capstone Phase I and Phase II shall be academically linked, with continuity of problem statement, outcomes and deliverables wherever feasible.
- HSS terminology and the treatment of TW/SL components shall be reviewed and incorporated appropriately in the final scheme.

Action Points

- Vice Principal - Academic Office and departments to incorporate the Council's observations in the final UG scheme.
- HoDs/Programme Coordinators to ensure course titles, outcomes and semester allocation are reviewed before final publication.
- Departments to prepare project guidelines that require a clear problem statement, proposed solution and evidence of outcome.
- Skill-lab certification completion to be monitored through the academic process, by the departments.

Agenda 2: Scheme of Study for PG Programmes – AY 2026–27

2.2 Presentation / Background

The proposed PG schemes, including MCA, MBA and M.Tech programmes, were presented for consideration. The discussion focused on vertical grouping of electives, skill-oriented learning and alignment of course offerings with emerging industry requirements.

Discussion and Deliberations

- Vertical grouping of Professional Electives was discussed to provide students a coherent area of specialization rather than isolated elective choices.

- Skill-oriented components, including Data Analytics and SAP-related learning, were discussed as possible areas for structured skill development.
- The Council emphasized that skill courses should be practical, industry relevant and supported by adequate laboratory/hands-on exposure.
- Course names should avoid unnecessary dependence on a specific company or vendor and should remain adaptable to technology changes.

Suggestions / Recommendation of the Council

- The PG schemes were recommended for implementation subject to incorporation of the observations made by the Council.
- Vertical elective structures and skill-lab offerings should be finalized with due consideration to programme objectives, faculty expertise and industry relevance.
- Vice Principal – Academics stated that VTU scheme is not yet released and general scheme and structure of VTU will be adapted.

Action Points

- PG Programme Coordinators/HoDs to review elective verticals and skill-course structure.
- Vice Principal-Academics Office to incorporate approved revisions in the final scheme documents.

Agenda 3: Teaching–Learning Process and Evaluation Reforms

2.3 Presentation / Background

The Council discussed reforms intended to improve classroom effectiveness, Outcome-Based Education (OBE), assessment quality and student engagement.

Discussion and Deliberations

- Unified learning outcomes and consistent interpretation of course outcomes were emphasized. This approach was appreciated as it enforces uniform TLP for foundation courses.
- Course delivery and evaluation patterns are aligned with the prescribed Course Outcomes, Programme Outcomes and appropriate Revised Bloom's Taxonomy (RBT) levels.
- The use of innovative teaching-learning practices, activity-based learning, interdisciplinary activities and suitable digital resources like smart board equipped classrooms were appreciated.
- The Council emphasized that lecture delivery should remain meaningful and supported by active student participation.
- Video-based learning and other digital resources to be used to increase engagement and allow students to access learning beyond the classroom. Principal added that all PPTs this semester are inline with videos/ other resources.
- Mobile phones and AI tools were discussed. The notes indicate that use of mobile/AI tools may be permitted for academic purposes under faculty supervision, while unrestricted/unauthorized mobile-phone use in classrooms should be controlled.
- Attendance monitoring and classroom discipline emphasized as essential components of the academic process.
- Alternative/innovative assessment methods may be adopted where appropriate, provided that the assessment remains aligned to the intended learning outcomes.

- Classroom activities and presentations should be supported by appropriate moderation/review by the concerned faculty/department.

Decision / Recommendation of the Council

- Departments shall strengthen OBE implementation and ensure alignment among teaching, learning outcomes and assessment.
- AI-enabled learning tools, where used, shall be academically purposeful and supervised by faculty.
- Classroom mobile-phone usage shall be regulated so that it does not interfere with teaching-learning.
- Assessment practices shall be transparent, outcome-oriented and supported by appropriate moderation.

Action Points

- HoDs and faculty members to review CO–PO mapping and RBT alignment.
- Departments to document innovative teaching-learning practices and evidence of student engagement.
- Classroom attendance and discipline mechanisms to be followed consistently.

Agenda 4: Research and Development Programmes

2.4 Presentation / Background

The Council reviewed institutional research and development activities and progress. The presentation/notes recorded 605 publications and 4,905 citations, with an h-index of 71. Research grant support of approximately Rs. 46,97,971 was also recorded. Patent activity and other R&D initiatives were discussed.

Discussion and Deliberations

- The Council noted the reported research publication and citation performance and encouraged continued focus on quality and impact.
- Research funding and grant proposals were discussed, with emphasis on improving external funding and sponsored research.
- Patent activity was noted, including one patent grant recorded for 2025 and three patent grants recorded for 2026 in the meeting notes.
- AICTE IDEA Lab activities and innovation-oriented initiatives were discussed.
- An annual symposium was noted as planned. Student innovation/technical chapters and participation in R&D-oriented activities were also discussed.
- The Council noted the need for regular R&D review and systematic tracking of publications, grants, patents, consultancy and student participation.
- Consultancy and private-industry linkages were discussed as an area requiring further strengthening.

Decision / Recommendation of the Council

- The Council appreciated the R&D initiatives and advised continued focus on quality publications, funded projects, patents, consultancy, prototypes and industry collaboration.

- R&D activities should be reviewed periodically and evidence should be maintained systematically.
- Faculty and student participation in innovation, IPR and research activities should be increased.

Action Points

- R&D Cell to continue periodic review of publications, citations, grants, patents and consultancy.
- Faculty members to pursue suitable funding and industry-linked research opportunities.
- Departments/innovation teams to strengthen student participation in IDEA Lab and innovation activities.

Agenda 5: Skill Development Activities

2.5 Presentation / Background

The Council reviewed faculty/student skill-development initiatives and the proposed continuation of skill-oriented programmes.

Discussion and Deliberations

- Skill-development programmes, FDPs, workshops, induction activities and emerging-technology training were discussed.
- The Council emphasized that skill development should be mapped to programme requirements and should provide demonstrable competency.
- Certification-based and hands-on learning pathways were encouraged.
- The skill-lab approach and the need to avoid unnecessary duplication between regular courses and skill courses were discussed.

Decision / Recommendation of the Council

- Skill-development initiatives were appreciated and recommended for continuation with stronger industry relevance and measurable outcomes.
- Upcoming programmes should be planned in advance and participation/completion records should be maintained.

Action Points

- Skill Development/Academic teams to prepare the activity calendar and certification pathway.
- Departments to monitor student/faculty completion and evidence of competency.

Agenda 6: IQAC Activities and Quality Initiatives

2.6 Presentation / Background

The Council reviewed IQAC activities and the quality-assurance framework for AY 2026–27, including accreditation readiness, OBE, CQI, mentoring, digital governance and academic audits.

Discussion and Deliberations

- Regular IQAC review and follow-up of quality initiatives were emphasized.
- Accreditation-related submissions and readiness activities were discussed, including SAR-related processes and departmental accreditation preparedness.

- Improvement in OBE implementation and evidence-based academic documentation was highlighted is appreciated.
- A **PPT-based demonstration on Digital Electronics** was presented to showcase effective teaching-quality delivery, integrating **AI-enabled learning tools and activity-based teaching methodologies**. The session focused on making the concepts more **interactive, engaging, application-oriented, and student-centric**.
- A two-day workshop/programme on OBE and related academic quality enhancement was indicated as an improvement initiative.
- Activity-based learning and stronger classroom engagement were discussed as quality-improvement measures.
- Class observation was discussed, including a structured observation mechanism involving faculty/mentors and follow-up.
- Faculty mentoring and student mentoring were discussed as mechanisms for early identification and support of academic needs.
- Digital governance, MIS/evidence management and systematic maintenance of academic records were emphasized.
- Stakeholder feedback, Graduate Exit Survey and closure/action taken mechanisms were noted as important inputs for CQI.

Decision / Recommendation of the Council

- IQAC shall continue to coordinate accreditation readiness, OBE implementation and continuous quality improvement.
- Class observations, mentoring, feedback and action-taken mechanisms shall be strengthened and documented.
- Departments shall maintain evidence systematically for accreditation and internal quality reviews.

Action Points

- IQAC to circulate the quality calendar and monitor departmental compliance.
- HoDs to ensure class observation, mentoring and feedback activities are documented.
- Academic/quality teams to track accreditation submissions and closure of observations.

Agenda 7: Result Analysis and Examination Reforms

2.7 Presentation / Background

The Council reviewed the Even Semester 2025–26 result analysis and discussed examination reforms, including digital valuation and ERP-enabled examination processes.

Discussion and Deliberations

- The result analysis was reviewed at UG and PG levels. The presentation recorded overall UG pass percentages of 81.45% (II Semester), 77.78% (IV Semester), 85.94% (VI Semester) and 98.94% (VIII Semester). PG overall pass percentages were recorded as 95.45% (II Semester) and 99.71% (IV Semester).
- Digital valuation was discussed with the objective of reducing errors, improving traceability and strengthening the transparency of evaluation.

- Scanning/digital handling of answer scripts and structured allocation of valuation work were discussed.
- Question-paper quality and moderation were discussed. The notes indicate moderation/quality review of question papers and faculty allocation for question-paper related work.
- AI-assisted/AI-enabled evaluation practices were discussed as an emerging possibility, with the need for appropriate controls and academic oversight.
- Examination Committee constitution for AY 2026–27 was placed for approval.
- Squad Committee constitution and procedures for handling malpractice/unfair means during examinations were discussed.
- ERP automation for practical examinations was reviewed. The process includes batch-wise timetables, student-wise/batch-wise B-forms and marks sheets, and systematic consolidation and verification of practical marks.
- Hall-ticket access through the Parent Portal, unique verification codes and display of examination date/time were discussed.
- Online student registration for the regular semester cycle and extension of online registration to the Summer Semester were noted.
- The Examination Reform Policy and Malpractice Prevention Committee (MPC) Manual were discussed with emphasis on integrity, transparency, standardized procedures and appropriate academic/disciplinary action.

Suggestions / Recommendation of the Council

- The result analysis was noted and departments were advised to use result trends for continuous academic improvement.
- The proposed digital examination and valuation reforms were supported in principle.
- The Examination Committee and Squad Committee shall function as approved for AY 2026–27.
- ERP-based practical examination processes shall be strengthened to reduce manual intervention and improve accuracy.
- Hall-ticket verification, online registration and examination documentation shall follow the approved digital workflow.
- The Examination Reform Policy and MPC Manual shall be implemented after approval.

Action Points

- Controller of Examinations/Examination Committee to operationalize the approved examination reforms.
- Departments to ensure timely submission and moderation of question banks/question papers.
- ERP/Examination team to monitor digital practical examination workflows and verification.
- Examination authorities to ensure malpractice procedures are communicated and followed uniformly.

Agenda 8: Any Other Point with the Permission of the Chair

2.8 Presentation / Background

The Chair invited members to raise any additional points requiring consideration.

Discussion and Deliberations

- Strengthening consultancy and funding linkages with private/industry partners was suggested.
- The Council discussed the need to identify suitable industry partners for meaningful academic and consultancy collaboration.
- Digital evaluation and examination processes were discussed
- Academic initiatives that demonstrate measurable student benefit should be documented and scaled where appropriate.

Decision / Recommendation of the Council

- The suggestions were noted for further examination and appropriate action by the concerned institutional authorities.
- Potential consultancy/industry partners may be identified and approached through the appropriate institutional mechanism.

Action Points

- Concerned Deans/HoDs/R&D/Industry Interaction teams to follow up on relevant proposals.

3. Consolidated Action Plan

Sl. No.	Action Point	Responsible	Timeline
1	Incorporate Academic Council observations in the UG/PG schemes and issue the final approved versions.	Vice Principal - Academic Office / HoDs / Programme Coordinators	Before final implementation
2	Review technology-neutral course nomenclature and elective structure.	Vice Principal - Academic Office / BoS / HoDs	Before scheme finalization
3	Finalize project guidelines with problem statement, solution and outcome/prototype requirements.	Academic Office / Departments	Before project allocation
4	Implement and monitor skill-lab/self-learning certification pathways.	Skill Development Cell / Departments	As per semester plan
5	Link Capstone Phase I and Phase II and monitor continuity of project outcomes.	HoDs / Project Coordinators	Sem VI–VII
6	Strengthen CO–PO mapping, RBT alignment, innovative pedagogy and assessment practices.	HoDs / Faculty	Continuous
7	Regulate classroom mobile-phone use and ensure supervised academic use of AI tools.	HoDs / Faculty	Immediate & continuous
8	Continue R&D review and strengthen funding, consultancy, patents and industry collaboration.	R&D Cell / Faculty	Periodic
9	Continue IQAC, accreditation readiness, class observation, mentoring and CQI documentation.	IQAC / HoDs	Continuous

10	Operationalize digital valuation and ERP-enabled practical examination processes.	Controller of Examinations / ERP Team	AY 2026-27
11	Implement Examination Committee, Squad Committee and malpractice procedures.	Examination Section	AY 2026-27
12	Strengthen industry/consultancy linkages and identify suitable external partners.	R&D / Industry Interaction / Departments	As feasible

5. Conclusion

The Principal concluded the meeting with appreciation to the Academic Council members and emphasized the importance of translating the decisions of the Council into measurable academic improvements. The concerned institutional offices, Deans, HoDs, faculty members and coordinators were requested to take timely action on the decisions and maintain appropriate records/evidence for review.

Abandho
8/9/26.

Prepared by

Member Secretary
Academic Council

Mayritha
9/9/2026.

Approved by

Principal & Chairman
Academic Council



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Attendance Sheet for Academic Council Meeting AY : 2026-27

Sl. No.	Category	Name	Signature
1	Principal of the College - Chairman	Dr. Manjunatha	
2	Director - Library and Alumni Relations	Dr. Anitha S Rai	
3	Controller of Examination	Dr. Vijilius H Raj	
4	Dean - R&D	Dr Revathi V	
5	Dean - IQAC	Dr. M Babita Kumari Jain	
6	Dean - Computer Science and Engineering	Dr. Uma Reddy M V	
7	All Heads of the Dept. - Members	Dr. Anusuya Devi V S	
		Dr. Vandana C P	
		Dr. Baswaraju Swathi	
		Dr. M Raja	
		Dr. Sujitha S	
		Dr. Aravinda K	
		Dr. Asha Joseph	
		Dr. D V Sreekanth	
		Dr. Asha V	
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		Dr. Kalaivani D, Associate Professor, Dept of ISE	
		Dr M. Jayanthi, Associate Professor, Dept of ECE	
		Dr. D Roja Ramani , Associate Professor, Dept of CSE	
		Dr. J Karthiyayini J, Associate Professor, Dept of AIML	
		Prof. Asha Rani Borah, Sr Assistant Professor, Dept of CSE, NHCE	

		Dr Karthika M, Associate Professor, Dept of EEE	Dr Karthika M 29/8/26
		Dr. J. Joshua Daniel Raj, Associate Professor, Dept of CSE	JDR
		Dr Srinath M K, Associate Professor, Dept of Mechanical Engg	Online Srinath
		Dr Arpana Prasad, Associate Professor, Dept of MCA	Online Arpana
		Dr Prashanth K S, Professor, Dept of Applied Science	Prashanth online
		Dr. Sreoshi Das Gupta, Associate Professor, Dept of MBA	Online Sreoshi
9	Experts from outside the college representing areas such as industry, R & D, Tech. Edn	Dr K N Subramanya, Principal – R V College of Engineering, Bengaluru	Online.
		Mr. Rajesh Kumar Sakri, Segment Head, Europe/UK, TCS, Bengaluru.	Online
		Mr. Ananthamani, Vice President – PLM & Mech/Elec, Capgemini Engineering	Online.
10	Nominees of University (VTU)	Dr. Shadashive Gowda, Principal-Vidya Vardhaka College of Engineering, Mysore	Online.
		Dr. Shivyogimath, Prof., Dept. of Civil Engineering, Basaveswara Engineering College, Bagalkot	Online.
11	Vice Principal-Academics – Member Secretary	Dr. R. J. Anandhi	Anandhi 28/8/26

UG – SCHEME GENERAL STRUCTURE

NEW HORIZON COLLEGE OF ENGINEERING
B. E. in _____
Scheme of Teaching and Examinations for 2025- 2029 BATCH (2025 Scheme)

III Semester																
S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	TLP Contact Hours / Sem	TW & SL / Sem	Total Hours /Sem	Exam Hrs	Marks		
					L	T	P	S						CIE	SEE	Total
1	BSC	25MAC31		BS	3	0	0	0	3	45	45	90	3	50	50	100
2	PCC	25XXK32		XX	3	0	0	0	3	45	45	90	3	50	50	100
3	PCCL	25XXLK32		XX	0	0	1	0	1	30	-	30	3	50	50	100
4	PCC	25XXX33		XX	3	0	0	0	3	45	45	90	3	50	50	100
5	PCCL	25XXL33		XX	0	0	1	0	1	30	-	30	3	50	50	100
6	PCC	25XXX34		XX	3	0	0	0	3	45	45	90	3	50	50	100
7	HSMS	25XXK35	Please refer the guidelines for HSMS	XX	3	0	0	0	3	45	45	90	3	50	50	100
8	AEC	25XXX36X	Ability Enhancement Course – III	XX	If the course is a Theory							30	3	50	50	100
					1	0	0	0	1	15	15					
					If the course is a Laboratory											
					0	0	1	0	1	30	-					
9	PROJ	25CPD37	Community Project using Innovation and Design Thinking	XX	0	0	0	1	1	-	30	30	3	50	50	100
10	NCMC	25NSS30	National Service Scheme	-	0	0	0	0	0	-	30	30	--	50	--	50
		25PED30	Physical Education and Sports	-												
		25YOG30	Yoga	-												
		25MUS30	Music	-												
Total									19	300/315	300/285	600	27	500	450	950

11	Skill Lab*	25SLC30	Skill Lab-I	-	0	0	1	0	1	-	30	30	--	100	-	100
12	NCMC**	25DMAT31	Basic Applied Mathematics -I	BS	0	0	0	0	0	15	15	30	--	50	--	50

Scheme General Structure (AIML, CSE)

BSC: Basic Science Course, **PCC:** Professional Core Course, **PCCL:** Professional Core Course laboratory, **UHV:** Universal Human Value Course, **NMC:** Non-Credit Mandatory Course, **AEC:** Ability Enhancement Course, **PROJ:** Mini Project work, **L:** Lecture, **T:** Tutorial, **P:** Practical **S:** **SDA:** Skill Development Activity, **TW & SL-** Term Work & Self Learning, **K:** This letter in the course code indicates common to all the stream of engineering. **ESC:** Engineering Science Course, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation.

25DMAT31:** This non-credit mandatory course to be offered with only CIE and no SEE to Lateral entry students.

Skill Lab*: Students admitted to the 2025 Scheme of all Undergraduate Engineering programmes through regular admission shall successfully complete five (05) Skill Labs. Students admitted through lateral entry under the 2025 Scheme shall successfully complete four (04) Skill Labs. The prescribed skill labs shall be completed between the 3rd and 7th semesters. Completion of the prescribed number of Skill Labs is mandatory for the award of the degree. However, the additional Skill Lab credits shall not be considered for the award of rank, calculation of the Programme Cumulative Grade Point Average (CGPA), or vertical progression. The successful completion of the prescribed Skill Labs shall, however, be reflected in the **Eighth Semester Grade Card**.

Students shall attend to these skill Labs during Saturdays, Sundays, general holidays, vacations and Summer Semesters with an aim that students acquire skills of their choice to become industry ready graduates.

Ability Enhancement Course – III (0-0-1-0)			
25XXX361		25XXX364	
25XXX362		25XXX365	Bio Inspired Design and Innovation (1-0-0-0)
25XXX363			

25XXX35(HSMS)- This course must be pertaining to economics and management of the concerned degree program. The course syllabus should have both economics and management topics and the course title should bear the word Management.

For IT allied Branches: Software Product/ Project Management

For Core Branches: Engineering Economics and Management / Industrial Management and Entrepreneurship.

Scheme General Structure (AIML, CSE)

Community Project using Innovation and Design Thinking: A community is a social unit or group of people sharing socially-significant characteristics, such as place, set of norms, culture, religion, values, customs, or identity. The Community Project using Innovation and Design Thinking course involves addressing complex issues within such a community through a human-centered lens. By integrating design thinking methodologies, these projects move beyond traditional service to focus on empathy, iterative problem-solving, and the creation of sustainable, innovative solutions. Whether establishing welfare initiatives like orphanages, implementing renewable energy systems, or developing environmental technologies, the process begins with deep community engagement to uncover latent needs before defining specific challenges.

This experiential learning activity encourages students to identify, analyze, and address real-life problems by synthesizing engineering knowledge with creative strategy. The design thinking framework guides students through stages of empathy, ideation, and rapid prototyping, ensuring that the final interventions are not only technically sound but also culturally appropriate and user-validated. This approach promotes social responsibility and civic engagement while fostering interdisciplinary collaboration and the practical application of theoretical concepts. By navigating the ambiguity of real-world constraints through an innovative mindset, students contribute meaningfully to community welfare and sustainable development. Students may undertake these projects individually or in collaborative groups 2 to 4 members.

CIE:

The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work shall be based on the rubrics.

National Service Scheme /Physical Education/Yoga/ Music: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PED) (Sports and Athletics), Yoga (YOG), and Music (MUS) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester and IV semester (for 2 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, Yoga and Music activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree. Students may opt for different activities/options across semesters. For instance, a student participating in PE during 3rd semester may choose NSS in the 4th semester or Yoga or Music.

NEW HORIZON COLLEGE OF ENGINEERING
B. E. in _____
Scheme of Teaching and Examinations for 2025- 2029 BATCH (2025 Scheme)

IV Semester																
S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	TLP Contact Hours / Sem	TW & SL / Sem	Total Hours /Sem	Exam Hrs	Marks		
					L	T	P	S						CIE	SEE	Total
1	BSC	25MAC41		BS	3	0	0	0	3	45	45	90	3	50	50	100
2	PCC	25XXK42		XX	3	0	0	0	3	45	45	90	3	50	50	100
3	PCCL	25XXLK42		XX	0	0	1	0	1	30	-	30	3	50	50	100
4	PCC	25XXX43		XX	3	0	0	0	3	45	45	90	3	50	50	100
5	PCCL	25XXL43		XX	0	0	1	0	1	30	-	30	3	50	50	100
6	PCC	25XXK44		XX	3	0	0	0	3	45	45	90	3	50	50	100
7	PCCL	25XXLK44		XX	0	0	1	0	1	30	-	30	3	50	50	100
8	PEC	25XXX45X	Professional Elective Course-I	XX	3	0	0	0	3	45	45	90	3	50	50	100
9	AEC	25XXX46X	Ability Enhancement Course – IV	XX	If the course is a Theory							30	3	50	50	100
					1	0	0	0	1	15	15					
					If the course is a Laboratory											
					0	0	1	0	1	30	-					
10	PROJ	25EPP47	Environmental Science Project	XX	0	0	2	0	2	-	60	60	3	50	50	100
11	NCMC	25NSS40	National Service Scheme	-	0	0	0	0	0	-	30	30	--	50	--	50
		25PED40	Physical Education and Sports	-												
		25YOG40	Yoga	-												
		25MUS40	Music	-												
Total									21	330 / 345	330 / 315	660	30	550	500	1050

11	Skill Lab*	25SLC40	Skill Lab-II	-	0	0	1	0	1	-	30	30	--	100	-	100
12	NCMC**	25DMAT31	Basic Applied Mathematics -I	BS	0	0	0	0	0	15	15	30	--	50	--	50

Scheme General Structure (AIML, CSE)

BSC: Basic Science Course, **PCC:** Professional Core Course, **PCCL:** Professional Core Course laboratory, **UHV:** Universal Human Value Course, **NMC:** Non-Credit Mandatory Course, **AEC:** Ability Enhancement Course, **PROJ:** Mini Project work, **L:** Lecture, **T:** Tutorial, **P:** Practical **S:** **SDA:** Skill Development Activity, **TW & SL-** Term Work & Self Learning, **K:** This letter in the course code indicates common to all the stream of engineering. **ESC:** Engineering Science Course, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation.

25DMAT41:** This non-credit mandatory course to be offered with only CIE and no SEE to Lateral entry students.

Skill Lab*: Students admitted to the 2025 Scheme of all Undergraduate Engineering programmes through regular admission shall successfully complete five (05) Skill Labs. Students admitted through lateral entry under the 2025 Scheme shall successfully complete four (04) Skill Labs. The prescribed skill labs shall be completed between the 3rd and 7th semesters. Completion of the prescribed number of Skill Labs is mandatory for the award of the degree. However, the additional Skill Lab credits shall not be considered for the award of rank, calculation of the Programme Cumulative Grade Point Average (CGPA), or vertical progression. The successful completion of the prescribed Skill Labs shall, however, be reflected in the **Eighth Semester Grade Card**. Students shall attend to these skill Labs during Saturdays, Sundays, general holidays, vacations and Summer Semesters with an aim that students acquire skills of their choice to become industry ready graduates.

Professional Elective Course-I

25XXX451		25XXX454	
25XXX452		25XXX455	
25XXX453			

Ability Enhancement Course – IV (0-0-1-0)

25XXX461		25XXX464	
25XXX462		25XXX465	
25XXX463			

Scheme General Structure (AIML, CSE)

Environmental Science Project: The Environmental Science Project is an applied learning component designed to develop students' awareness, understanding, and responsibility toward the environment. It provides an opportunity to study real-world environmental issues and apply scientific and engineering principles to design feasible and sustainable solutions. Central to this course is the alignment with the United Nations Sustainable Development Goals (SDGs), providing a global framework for students to address urgent environmental challenges through localized action.

The topics under environment include, but are not limited to, climate change, biodiversity, air and water pollution, land use, excess use of natural resources, earthquakes, rise in the earth's temperature, power generation, and soil erosion. By exploring these themes, students contribute to the realization of specific global targets, including Clean Water and Sanitation, Affordable and Clean Energy, Climate Action, Life Below Water, and Life on Land.

The project involves problem identification, field surveys, case studies, data collection, environmental audits, analysis, and the proposal of remedial or preventive measures. These interventions are aimed at improving biodiversity, air quality, and thermal comfort while promoting Responsible Consumption and Production and Sustainable Cities and Communities. Students can take up the project individually or in a group not exceeding four members. Participants are also encouraged to opt for Interdisciplinary Projects, fostering the collaborative thinking essential for achieving a sustainable balance between human activity and the natural world.

CIE:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project.

The CIE marks awarded for the project work shall be based on the rubrics. The marks awarded for the project report shall be the same for all the batches mates.

National Service Scheme /Physical Education/Yoga/ Music: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PED) (Sports and Athletics), Yoga (YOG), and Music (MUS) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester and IV semester (for 2 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, Yoga and Music activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree. Students may opt for different activities/options across semesters. For instance, a student participating in PE during 3rd semester may choose NSS in the 4th semester or Yoga or Music.

NEW HORIZON COLLEGE OF ENGINEERING
B. E. in _____
Scheme of Teaching and Examinations for 2024- 2028 BATCH (2024 Scheme)

V Semester													
S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	Contact Hours	Marks		
					L	T	P	S			CIE	SEE	Total
1	PCC	24XXX51		XX	3	0	0	0	3	3	50	50	100
2	PCC	24XXK52	Design and Analysis of Algorithms	XX	3	0	0	0	3	3	50	50	100
3	PCCL	24XXLK52	Design and Analysis of Algorithms Lab	XX	0	0	1	0	1	2	50	50	100
4	PCC	24XXX53		XX	3	0	0	0	3	3	50	50	100
5	PCCL	24XXL53		XX	0	0	1	0	1	2	50	50	100
6	AEC*	24XXX54	Skill Based Core Course	XX	3	0	0	0	3	3	50	50	100
7	AEC	24RMK55	Research Methodology and IPR	XX	1	0	0	0	1	1	50	50	100
8	AEC	24SDK56	Problem Solving Methodologies	-	0	0	1	0	1	2	50	-	50
9	PROJ**	24XXX57	Societal Based Mini Project	XX	0	0	1	0	1	2	50	50	100
10	OE*	26NHOP5XX	Industrial Open Elective Course-I	XX	3	0	0	0	3	3	50	50	100
11	NCMC	24NSS50	National Service Scheme	-	0	0	0	0	0	2	50	--	50
		24PED50	Physical Education and Sports	-									
		24YOG50	Yoga	-									
Total									20	26	550	450	1000

PCC: Professional Core Course, **PCCL:** Professional Core Course laboratory, **UHV:** Universal Human Value Course, **NCMC:** Non-Credit Mandatory Course, **AEC:** Ability Enhancement Course, **PEC:** Professional Elective Course, **PROJ:** Mini Project work **L:** Lecture, **T:** Tutorial, **P:** Practical **S:** SDA: Self Study for Skill Development, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation

Scheme General Structure (AIML, CSE, CSE-DS)

AEC* (Skill Based Core Course):

Credit for AEC* with 03 (L: T: P: S) credits can be considered as (3: 0: 0: 0). The teaching and learning of these Courses will be based on hands-on. The Course content will be from Industry Certification Course Content. The Course Assessment will be based on CIE and SEE in practical mode.

Societal Based Mini Project **:

The Mini project can be done in any lab across college. A common slot in time table can be allotted across all departments.

Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications etc. Based on the ability/abilities of the student/s and recommendations of the mentor. A student can do mini project as

- (i) A group of 2 if mini project work is single discipline (applicable to all IT allied branches)
- (ii) A group of 3- 4 if mini project work is single discipline (applicable to all Core Branches)
- (iii) A group of 3 - 4 students if the Mini Project work is a multidisciplinary (Applicable to all Branches)

CIE procedure for Mini-project:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project.

The CIE marks awarded for the Mini-project, shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

Industrial Open Elective Courses-I:

Credit for OEC is 03 (L: T: P: S) can be considered as (3: 0: 0 : 0). The teaching and learning of these Courses will be based on hands-on. The Course Assessment will be based on CIE and SEE in practical mode. This Courses will be offered by Centre of Excellence to students of all the branches. Registration to Industrial open electives shall be documented and monitored on college level.

Scheme General Structure (AIML, CSE, CSE-DS)

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education(PE) (Sports and Athletics), and Yoga (YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

Credit Definition: 1-hour Lecture (L) per week=1Credit 2-hoursTutorial(T) per week=1Credit 2-hours Practical / Drawing (P) per week=1Credit 2-hous Self Study for Skill Development (SDA) per week = 1 Credit	03-Credits courses are to be designed for 40 hours in Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 15 hours of Teaching-Learning Sessions
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NEW HORIZON COLLEGE OF ENGINEERING
B. E. in _____
Scheme of Teaching and Examinations for 2024- 2028 BATCH (2024 Scheme)

VI Semester													
S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	Contact Hours	Marks		
					L	T	P	S			CIE	SEE	Total
1	PCC	24XXX61		XX	3	0	0	0	3	3	50	50	100
2	PCCL	24XXL61		XX	0	0	1	0	1	2	50	50	100
3	PCC	24XXX62		XX	3	0	0	0	3	3	50	50	100
4	PCCL	24XXL62		XX	0	0	1	0	1	2	50	50	100
5	AEC*	24XXX63	Skill Based Core Course	XX	3	0	0	0	3	3	50	50	100
6	PEC	24XXX64X	Professional Elective Course-II	XX	3	0	0	0	3	3	50	50	100
7	AEC	24XXX65X	Ability Enhancement Course – V	XX	If the course is a Theory						50	50	100
					1	0	0	0	1	1			
					If the course is a laboratory								
					0	0	1	0	1	2			
8	NCMC	24SDK66	Advanced Problem Solving Methodologies	-	0	0	0	0	0	2	50	--	50
9	PROJ	24XXX67	Cap Stone Project	XX	0	0	2	0	2	4	50	50	100
10	PCC	26NHOP6XX	Industrial Open Elective Course-II	Offering Dept.	3	0	0	0	3	3	50	50	100
11	NCMC	24NSS60	National Service Scheme	-	0	0	0	0	0	2	50	--	50
		24PED60	Physical Education	-									
		24YOG60	Yoga	-									
Total									20	28/29	550	450	1000

PCC: Professional Core Course, **PCCL:** Professional Core Course laboratory, **NCMC:** Non-Credit Mandatory Course, **AEC:** Ability Enhancement Course, **PEC:** Professional Elective Course, **OEC:** Open Elective Course, **PROJ:** Project work, **L:** Lecture, **T:** Tutorial, **P:** Practical **S:** **SDA:** Self Study for Skill Development, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation.

Scheme General Structure (AIML, CSE, CSE-DS)

Professional Elective Course-II			
24XXX641		24XXX644	
24XXX642		24XXX645	
24XXX643			

Ability Enhancement Course – V			
24XXX651		24XXX654	
24XXX652		24XXX655	
24XXX653			

Industrial Open Elective Courses-II:

Credit for OEC is 03 (L: T: P: S) can be considered as (3: 0: 0 : 0). The teaching and learning of these Courses will be based on hands-on. The Course Assessment will be based on CIE and SEE in practical mode. This Courses will be offered by Centre of Excellence to students of all the branches. Registration to Industrial open electives shall be documented and monitored on college level.

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses can be added to supplement the latest trend and advanced technology in the selected stream of engineering.

Cap Stone Project:

Students have to discuss with the mentor /guide and with their help he/she has to define the problem statement for the project.

The objective of the Project is

- To encourage independent learning and the innovative attitude of the students.
- To develop interactive attitude, communication skills, organization, time management, and presentation skills.
- To impart flexibility and adaptability.
- To inspire team working.
- To expand intellectual capacity, credibility, judgment and intuition.
- To adhere to punctuality, setting and meeting deadlines.
- To install responsibilities to oneself and others.
- To train students to present the topic of project work in a seminar without any fear, face the audience confidently, enhance communication skills, involve in group discussion to present and exchange ideas.

CIE procedure for Project:

1. **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.
The CIE marks awarded for the project, shall be based on the evaluation of the project Report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.
2. **Interdisciplinary:** Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work, shall be based on the evaluation of project Report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE procedure for Project: SEE for project will be conducted by the two examiners appointed by the University. The SEE marks awarded for the project shall be based on the evaluation of project Report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25.

Scheme General Structure (AIML, CSE, CSE-DS)

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education(PE) (Sports and Athletics), and Yoga (YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

Credit Definition:	
1-hour Lecture (L) per week=1Credit	03-Credits courses are to be designed for 40 hours in Teaching-Learning Session
2-hours Tutorial(T) per week=1Credit	02- Credits courses are to be designed for 25 hours of Teaching-Learning Session
2-hours Practical / Drawing (P) per week=1Credit	01-Credit courses are to be designed for 15 hours of Teaching-Learning Sessions
2-hous Self Study for Skill Development (SDA) per week = 1 Credit	

NEW HORIZON COLLEGE OF ENGINEERING

B. E. in _____

Scheme of Teaching and Examinations for 2025- 2029 BATCH (2025 Scheme)

III Semester																
S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	TLP Contact Hours / Sem	TW & SL / Sem	Total Hours /Sem	Exam Hrs	Marks		
					L	T	P	S						CIE	SEE	Total
1	BSC	25MAE31		BS	3	0	0	0	3	45	45	90	3	50	50	100
2	PCC	25XXX32		XX	3	0	0	0	3	45	45	90	3	50	50	100
3	PCCL	25XXL32		XX	0	0	1	0	1	30	-	30	3	50	50	100
4	PCC	25XXX33		XX	3	0	0	0	3	45	45	90	3	50	50	100
5	PCCL	25XXL33		XX	0	0	1	0	1	30	-	30	3	50	50	100
6	PCC	25XXX34		XX	3	0	0	0	3	45	45	90	3	50	50	100
7	HSMS / PCC	25XXX35	Please refer the guidelines for HSMS	XX	3	0	0	0	3	45	45	90	3	50	50	100
8	AEC	25XXX36X	Ability Enhancement Course – III	XX	If the course is a Theory						30	3	50	50	100	
					1	0	0	0	1	15						15
					If the course is a Laboratory											
					0	0	1	0	1	30						-
9	PROJ	25CPD37	Community Project using Innovation and Design Thinking	Any Dept	0	0	1	0	1	-	30	30	3	50	50	100
10	NCMC	25NSS30	National Service Scheme	-	0	0	0	0	0	-	30	30	--	50	--	50
		25PED30	Physical Education and Sports	-												
		25YOG30	Yoga	-												
		25MUS30	Music	-												
Total									19	300/315	300/285	600	27	500	450	950

11	Skill Lab*	25SLC30	Skill Lab-I	-	0	0	1	0	1	-	30	30	--	100	-	100
12	NCMC**	25DMAT31	Basic Applied Mathematics -I	BS	0	0	0	0	0	15	15	30	--	50	--	50

Scheme General Structure (ECE, EEE, ME)

BSC: Basic Science Course, **PCC:** Professional Core Course, **PCCL:** Professional Core Course laboratory, **UHV:** Universal Human Value Course, **NMC:** Non-Credit Mandatory Course, **AEC:** Ability Enhancement Course, **PROJ:** Mini Project work, **L:** Lecture, **T:** Tutorial, **P:** Practical **S:** **SDA:** Skill Development Activity, **TW & SL-** Term Work & Self Learning, **K:** This letter in the course code indicates common to all the stream of engineering. **ESC:** Engineering Science Course, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation.

25DMAT31*: This non-credit mandatory course to be offered with only CIE and no SEE to Lateral entry students.

Skill Lab*: Students admitted to the 2025 Scheme of all Undergraduate Engineering programmes through regular admission shall successfully complete five (05) Skill Labs. Students admitted through lateral entry under the 2025 Scheme shall successfully complete four (04) Skill Labs. The prescribed skill labs shall be completed between the 3rd and 7th semesters. Completion of the prescribed number of Skill Labs is mandatory for the award of the degree. However, the additional Skill Lab credits shall not be considered for the award of rank, calculation of the Programme Cumulative Grade Point Average (CGPA), or vertical progression. The successful completion of the prescribed Skill Labs shall, however, be reflected in the **Eighth Semester Grade Card**.

Students shall attend to these skill Labs during Saturdays, Sundays, general holidays, vacations and Summer Semesters with an aim that students acquire skills of their choice to become industry ready graduates.

Ability Enhancement Course – III (1-0-0-0 or 0-0-1-0)

25XXX361		25XXX364	
25XXX362		25XXX365	Bio Inspired Design and Innovation (1-0-0-0)
25XXX363			

25XXX35(HSMS)- This course must be pertaining to economics and management of the concerned degree program. The course syllabus should have both economics and management topics and the course title should bear the word Management.

For IT allied Branches: Software Product/ Project Management

For Core Branches: Engineering Economics and Management / Industrial Management and Entrepreneurship.

Scheme General Structure (ECE, EEE, ME)

Community Project using Innovation and Design Thinking: A community is a social unit or group of people sharing socially-significant characteristics, such as place, set of norms, culture, religion, values, customs, or identity. The Community Project using Innovation and Design Thinking course involves addressing complex issues within such a community through a human-centered lens. By integrating design thinking methodologies, these projects move beyond traditional service to focus on empathy, iterative problem-solving, and the creation of sustainable, innovative solutions. Whether establishing welfare initiatives like orphanages, implementing renewable energy systems, or developing environmental technologies, the process begins with deep community engagement to uncover latent needs before defining specific challenges.

This experiential learning activity encourages students to identify, analyze, and address real-life problems by synthesizing engineering knowledge with creative strategy. The design thinking framework guides students through stages of empathy, ideation, and rapid prototyping, ensuring that the final interventions are not only technically sound but also culturally appropriate and user-validated. This approach promotes social responsibility and civic engagement while fostering interdisciplinary collaboration and the practical application of theoretical concepts. By navigating the ambiguity of real-world constraints through an innovative mindset, students contribute meaningfully to community welfare and sustainable development. Students may undertake these projects individually or in collaborative groups 2 to 4 members.

CIE:

The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work shall be based on the rubrics.

National Service Scheme /Physical Education/Yoga/ Music: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PED) (Sports and Athletics), Yoga (YOG), and Music (MUS) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester and IV semester (for 2 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, Yoga and Music activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree. Students may opt for different activities/options across semesters. For instance, a student participating in PE during 3rd semester may choose NSS in the 4th semester or Yoga or Music.

NEW HORIZON COLLEGE OF ENGINEERING
B. E. in _____
Scheme of Teaching and Examinations for 2025- 2029 BATCH (2025 Scheme)

IV Semester																
S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	TLP Contact Hours / Sem	TW & SL / Sem	Total Hours /Sem	Exam Hrs	Marks		
					L	T	P	S						CIE	SEE	Total
1	BSC	25MAE41		BS	3	0	0	0	3	45	45	90	3	50	50	100
2	PCC	25XXX42		XX	3	0	0	0	3	45	45	90	3	50	50	100
3	PCCL	25XXL42		XX	0	0	1	0	1	30	-	30	3	50	50	100
4	PCC	25XXX43		XX	3	0	0	0	3	45	45	90	3	50	50	100
5	PCCL	25XXL43		XX	0	0	1	0	1	30	-	30	3	50	50	100
6	PCC	25XXX44		XX	3	0	0	0	3	45	45	90	3	50	50	100
7	PCCL	25XXL44		XX	0	0	1	0	1	30	-	30	3	50	50	100
8	PEC	25XXX45X	Professional Elective Course-I	XX	3	0	0	0	3	45	45	90	3	50	50	100
9	AEC	25XXX46X	Ability Enhancement Course – IV	XX	If the course is a Theory							30	3	50	50	100
					1	0	0	0	1	15	15					
					If the course is a Laboratory											
					0	0	1	0	1	30	-					
10	PROJ	25EPP47	Environmental Science Project	XX	0	0	2	0	2	-	60	60	3	50	50	100
11	NCMC	25NSS40	National Service Scheme	-	0	0	0	0	0	-	30	30	--	50	--	50
		25PED40	Physical Education and Sports	-												
		25YOG40	Yoga	-												
		25MUS40	Music	-												
Total									21	330 / 345	330 / 315	660	30	550	500	1050

11	Skill Lab*	25SLC40	Skill Lab-II	-	0	0	1	0	1	-	30	30	--	100	-	100
12	NCMC**	25DMAT31	Basic Applied Mathematics -I	BS	0	0	0	0	0	15	15	30	--	50	--	50

Scheme General Structure (ECE, EEE, ME)

BSC: Basic Science Course, **PCC:** Professional Core Course, **PCCL:** Professional Core Course laboratory, **UHV:** Universal Human Value Course, **NMC:** Non-Credit Mandatory Course, **AEC:** Ability Enhancement Course, **PROJ:** Mini Project work, **L:** Lecture, **T:** Tutorial, **P:** Practical **S:** **SDA:** Skill Development Activity, **TW & SL-** Term Work & Self Learning, **K:** This letter in the course code indicates common to all the stream of engineering. **ESC:** Engineering Science Course, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation.

25DMAT41:** This non-credit mandatory course to be offered with only CIE and no SEE to Lateral entry students.

Skill Lab*: Students admitted to the 2025 Scheme of all Undergraduate Engineering programmes through regular admission shall successfully complete five (05) Skill Labs. Students admitted through lateral entry under the 2025 Scheme shall successfully complete four (04) Skill Labs. The prescribed skill labs shall be completed between the 3rd and 7th semesters. Completion of the prescribed number of Skill Labs is mandatory for the award of the degree. However, the additional Skill Lab credits shall not be considered for the award of rank, calculation of the Programme Cumulative Grade Point Average (CGPA), or vertical progression. The successful completion of the prescribed Skill Labs shall, however, be reflected in the **Eighth Semester Grade Card**.

Students shall attend to these skill Labs during Saturdays, Sundays, general holidays, vacations and Summer Semesters with an aim that students acquire skills of their choice to become industry ready graduates.

Professional Elective Course-I			
25XXX451		25XXX454	
25XXX452		25XXX455	
25XXX453			

Ability Enhancement Course – IV (1-0-0-0 or 0-0-1-0)			
25XXX461		25XXX464	
25XXX462		25XXX465	
25XXX463			

Scheme General Structure (ECE, EEE, ME)

Environmental Science Project: The Environmental Science Project is an applied learning component designed to develop students' awareness, understanding, and responsibility toward the environment. It provides an opportunity to study real-world environmental issues and apply scientific and engineering principles to design feasible and sustainable solutions. Central to this course is the alignment with the United Nations Sustainable Development Goals (SDGs), providing a global framework for students to address urgent environmental challenges through localized action.

The topics under environment include, but are not limited to, climate change, biodiversity, air and water pollution, land use, excess use of natural resources, earthquakes, rise in the earth's temperature, power generation, and soil erosion. By exploring these themes, students contribute to the realization of specific global targets, including Clean Water and Sanitation, Affordable and Clean Energy, Climate Action, Life Below Water, and Life on Land.

The project involves problem identification, field surveys, case studies, data collection, environmental audits, analysis, and the proposal of remedial or preventive measures. These interventions are aimed at improving biodiversity, air quality, and thermal comfort while promoting Responsible Consumption and Production and Sustainable Cities and Communities. Students can take up the project individually or in a group not exceeding four members. Participants are also encouraged to opt for Interdisciplinary Projects, fostering the collaborative thinking essential for achieving a sustainable balance between human activity and the natural world.

CIE:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project.

The CIE marks awarded for the project work shall be based on the rubrics. The marks awarded for the project report shall be the same for all the batches mates.

National Service Scheme /Physical Education/Yoga/ Music: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PED) (Sports and Athletics), Yoga (YOG), and Music (MUS) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester and IV semester (for 2 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, Yoga and Music activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree. Students may opt for different activities/options across semesters. For instance, a student participating in PE during 3rd semester may choose NSS in the 4th semester or Yoga or Music

NEW HORIZON COLLEGE OF ENGINEERING
B. E. in _____
Scheme of Teaching and Examinations for 2024- 2028 BATCH (2024 Scheme)

V Semester													
S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	Contact Hours	Marks		
					L	T	P	S			CIE	SEE	Total
1	HSMS / PCC	24XXX51		XX	3	0	0	0	3	3	50	50	100
2	PCC	24XX52		XX	3	0	0	0	3	3	50	50	100
3	PCCL	24XXL52		XX	0	0	1	0	1	2	50	50	100
4	PCC	24XXX53		XX	3	0	0	0	3	3	50	50	100
5	PCCL	24XXL53		XX	0	0	1	0	1	2	50	50	100
6	AEC*	24XXX54	Skill Based Core Course	XX	3	0	0	0	3	3	50	50	100
7	AEC	24RMK55	Research Methodology and IPR	XX	1	0	0	0	1	1	50	50	100
8	AEC	24SDK56	Problem Solving Methodologies	-	0	0	1	0	1	2	50	-	50
9	PROJ**	24XXX57	Societal Based Mini Project	XX	0	0	1	0	1	2	50	50	100
10	OEC*	26NHOP5XX	Industrial Open Elective Course-I	XX	3	0	0	0	3	3	50	50	100
11	NCMC	24NSS50	National Service Scheme	-	0	0	0	0	0	2	50	--	50
		24PED50	Physical Education and Sports	-									
		24YOG50	Yoga	-									
Total									20	26	550	450	1000

PCC: Professional Core Course, **PCCL:** Professional Core Course laboratory, **UHV:** Universal Human Value Course, **NCMC:** Non-Credit Mandatory Course, **AEC:** Ability Enhancement Course, **PEC:** Professional Elective Course, **PROJ:** Mini Project work **L:** Lecture, **T:** Tutorial, **P:** Practical **S:** **SDA:** Self Study for Skill Development, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation

Scheme General Structure (ECE, EEE, ME)

AEC* (Skill Based Core Course):

Credit for AEC* with 03 (L: T: P: S) credits can be considered as (3: 0: 0: 0). The teaching and learning of these Courses will be based on hands-on. The Course content will be from Industry Certification Course Content. The Course Assessment will be based on CIE and SEE in practical mode.

Societal Based Mini Project **:

The Mini project can be done in any lab across college. A common slot in time table can be allotted across all departments.

Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications etc. Based on the ability/abilities of the student/s and recommendations of the mentor. A student can do mini project as

- (i) A group of 2 if mini project work is single discipline (applicable to all IT allied branches)
- (ii) A group of 3- 4 if mini project work is single discipline (applicable to all Core Branches)
- (iii) A group of 3 - 4 students if the Mini Project work is a multidisciplinary (Applicable to all Branches)

CIE procedure for Mini-project:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project.

The CIE marks awarded for the Mini-project, shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

Industrial Open Elective Courses-I:

Credit for OEC is 03 (L: T: P: S) can be considered as (3: 0: 0 : 0). The teaching and learning of these Courses will be based on hands-on. The Course Assessment will be based on CIE and SEE in practical mode. This Courses will be offered by Centre of Excellence to students of all the branches. Registration to Industrial open electives shall be documented and monitored on college level.

Scheme General Structure (ECE, EEE, ME)

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education(PE) (Sports and Athletics), and Yoga (YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

Credit Definition: 1-hour Lecture (L) per week=1Credit 2-hoursTutorial(T) per week=1Credit 2-hours Practical / Drawing (P) per week=1Credit 2-hous Self Study for Skill Development (SDA) per week = 1 Credit	03-Credits courses are to be designed for 40 hours in Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 15 hours of Teaching-Learning Sessions
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NEW HORIZON COLLEGE OF ENGINEERING
B. E. in _____
Scheme of Teaching and Examinations for 2024- 2028 BATCH (2024 Scheme)

VI Semester													
S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	Contact Hours	Marks		
					L	T	P	S			CIE	SEE	Total
1	PCC	24XXX61		XX	3	0	0	0	3	3	50	50	100
2	PCCL	24XXL61		XX	0	0	1	0	1	2	50	50	100
3	PCC	24XXX62		XX	3	0	0	0	3	3	50	50	100
4	PCCL	24XXL62		XX	0	0	1	0	1	2	50	50	100
5	AEC*	24XXX63	Skill Based Core Course	XX	3	0	0	0	3	3	50	50	100
6	PEC	24XXX64X	Professional Elective Course-II	XX	3	0	0	0	3	3	50	50	100
7	AEC	24XXX65X	Ability Enhancement Course – V	XX	If the course is a Theory						50	50	100
					1	0	0	0	1	1			
					If the course is a laboratory								
					0	0	1	0	1	2			
8	NCMC	24SDK66	Advanced Problem Solving Methodologies	-	0	0	0	0	0	2	50	--	50
9	PROJ	24XXX67	Cap Stone Project	XX	0	0	2	0	2	4	50	50	100
10	PCC	26NHOP6XX	Industrial Open Elective Course-II	Offering Dept.	3	0	0	0	3	3	50	50	100
11	NCMC	24NSS60	National Service Scheme	-	0	0	0	0	0	2	50	--	50
		24PED60	Physical Education	-									
		24YOG60	Yoga	-									
Total									20	28/29	550	450	1000

PCC: Professional Core Course, **PCCL:** Professional Core Course laboratory, **NCMC:** Non-Credit Mandatory Course, **AEC:** Ability Enhancement Course, **PEC:** Professional Elective Course, **OEC:** Open Elective Course, **PROJ:** Project work, **L:** Lecture, **T:** Tutorial, **P:** Practical **S:** **SDA:** Self Study for Skill Development, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation.

Scheme General Structure (ECE, EEE, ME)

Professional Elective Course-II			
24XXX641		24XXX644	
24XXX642		24XXX645	
24XXX643			

Ability Enhancement Course – V			
24XXX651		24XXX654	
24XXX652		24XXX655	
24XXX653			

AEC* (Skill Based Core Course):

Credit for AEC* with 03 (L: T: P: S) credits can be considered as (3: 0: 0: 0). The teaching and learning of these Courses will be based on hands-on. The Course content will be from Industry Certification Course Content. The Course Assessment will be based on CIE and SEE in practical mode.

Industrial Open Elective Courses-II:

Credit for OEC is 03 (L: T: P: S) can be considered as (3: 0: 0 : 0). The teaching and learning of these Courses will be based on hands-on. The Course Assessment will be based on CIE and SEE in practical mode. This Courses will be offered by Centre of Excellence to students of all the branches. Registration to Industrial open electives shall be documented and monitored on college level.

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses can be added to supplement the latest trend and advanced technology in the selected stream of engineering.

Cap Stone Project:

Students have to discuss with the mentor /guide and with their help he/she has to define the problem statement for the project.

The objective of the Project is

- To encourage independent learning and the innovative attitude of the students.
- To develop interactive attitude, communication skills, organization, time management, and presentation skills.
- To impart flexibility and adaptability.
- To inspire team working.
- To expand intellectual capacity, credibility, judgment and intuition.
- To adhere to punctuality, setting and meeting deadlines.
- To install responsibilities to oneself and others.
- To train students to present the topic of project work in a seminar without any fear, face the audience confidently, enhance communication skills, involve in group discussion to present and exchange ideas.

CIE procedure for Project:

1. **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.
The CIE marks awarded for the project, shall be based on the evaluation of the project Report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.
2. **Interdisciplinary:** Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work, shall be based on the evaluation of project Report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE procedure for Project: SEE for project will be conducted by the two examiners appointed by the University. The SEE marks awarded for the project shall be based on the evaluation of project Report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25.

Scheme General Structure (ECE, EEE, ME)

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education(PE) (Sports and Athletics), and Yoga (YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

Credit Definition:	
1-hour Lecture (L) per week=1Credit	03-Credits courses are to be designed for 40 hours in Teaching-Learning Session
2-hoursTutorial(T) per week=1Credit	02- Credits courses are to be designed for 25 hours of Teaching-Learning Session
2-hours Practical / Drawing (P) per week=1Credit	01-Credit courses are to be designed for 15 hours of Teaching-Learning Sessions
2-hous Self Study for Skill Development (SDA) per week = 1 Credit	

PG – SCHEME GENERAL STRUCTURE

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
SCHEME OF FIRST SEMESTER MCA PROGRAM
Scheme 2026 - AY 2026-27

SL NO	COURSE	COURSE CODE	COURSE NAME	BO S	CREDIT DISTRIBUTION				OVERALL CREDITS	TLP CONTACT HOURS / SEM	TW & SL / SEM	TOTAL HOURS /SEM	EXAM HRS	MARKS		
					L	T	P	S						CIE	SEE	TOTAL
1	BSC	26MT11	MATHEMATICAL FOUNDATIONS FOR COMPUTER APPLICATIONS	AS	2	1	0	0	3	56	34	90	3	50	50	100
2	PCC	26MC12	DATA STRUCTURES WITH C	MCA	3	0	0	0	3	42	48	90	3	50	50	100
3	PCC	26MC13	OBJECT ORIENTED PROGRAMMING WITH JAVA	MCA	3	0	0	0	3	42	48	90	3	50	50	100
4	PCC	26MC14	COMPUTER NETWORKS	MCA	3	0	0	0	3	42	48	90	3	50	50	100
5	PCC	26MC15	LINUX OPERATING SYSTEM AND SHELL SCRIPTING	MCA	3	0	0	0	3	42	48	90	3	50	50	100
6	IPCC	26MC16	DATABASE MANAGEMENT SYSTEMS	MCA	3	0	1	0	4	70	50	120	3	50	50	100
7	PCCL	26MCL17	DATA STRUCTURES LAB	MCA	0	0	1.5	0	1.5	42	3	45	3	50	50	100
8	PCCL	26MCL18	OBJECT ORIENTED PROGRAMMING WITH JAVA LAB	MCA	0	0	1.5	0	1.5	42	3	45	3	50	50	100
9	AEC	26MC19	PROBLEM SOLVING METHODOLOGIES	MCA	0	0	0	0	-	28	32	60	-	50	-	PP
TOTAL					17	1	4	0	22	406	314	720	24	406	314	800
SKILL LABS * (MANDATORY FOR THE AWARD OF THE DEGREE; REFLECTS IN FINAL SEMESTER GRADE CARD)																
1	AEC	26MC110	GOOGLE DATA ANALYTICS	MCA	0	0	1	0	1	28	2	30	-	50	-	50
Note: BSC - Basic Science Course, PCC - Professional Core Course, AEC - Ability Enhancement Course IPCC - Integrated Professional Core Course, (No SEE for lab component, only CIE), PCCL - Professional Core Course Lab CI - Classroom Instruction, LI - Laboratory Instruction, L - Lecture, T - Tutorial, P - Practical, TW & SL - Term work & Self Learning																
Research Methodology and IPR & Credited Online Courses should be mandatorily taken by the students anytime during the program, However, the marks will be included in 4th semester. Students have to qualify it for the award of master's degree																
*As per VTU Circular No. VTU/BGM/Skill lab/1016/2026-27/1736, dated 15 July 2026.																

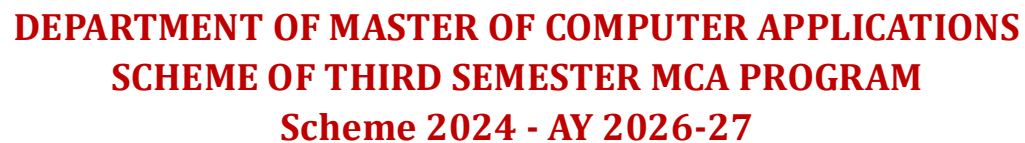
DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
SCHEME OF SECOND SEMESTER MCA PROGRAM
Scheme 2026 - AY 2026-27

SL NO	COURSE	COURSE CODE			B O S	CREDIT DISTRIBUTION				OVERALL CREDITS	TLP CONTACT HOURS / SEM	TW & SL / SEM	TOTAL HOURS /SEM	EXAM HRS	MARKS		
		CYBER SECURITY	DATA SCIENCE	ENTERPRISE APPLICATION DEVELOPMENT		L	T	P	S						CIE	SEE	TOTAL
1	PCC	26MC21	26MC21	26MC21	MCA	3	0	0	0	3	42	48	90	3	50	50	100
2	PCC	26MC22	26MC22	26MC22	MCA	3	0	0	0	3	42	48	90	3	50	50	100
3	PCC	26MC23	26MC23	26MC23	MCA	3	0	0	0	3	42	48	90	3	50	50	100
4	PCCL	26MCL24	26MCL24	26MCL24	MCA	0	0	1	0	1	28	2	30	3	50	50	100
5	PCCL	26MCL25	26MCL25	26MCL25	MCA	0	0	1	0	1	28	2	30	2	50	50	100
6	PEC	26MCCS26	26MCDS26	26MCEA26	MCA	3	0	0	0	3	42	48	90	3	50	50	100
7	PEC	26MCCS27	26MCDS27	26MCEA27	MCA	3	0	0	0	3	42	48	90	3	50	50	100
8	PECL	26MCCSL28	26MCDL28	26MCEAL28	MCA	0	0	1.5	0	1.5	42	3	45	3	50	50	100
9	PECL	26MCCSL29	26MCDL29	26MCEAL29	MCA	0	0	1.5	0	1.5	42	3	45	3	50	50	100
TOTAL						15	0	5	0	20	350	250	600	26	450	350	250
SKILL LABS * (MANDATORY FOR THE AWARD OF THE DEGREE; REFLECTS IN FINAL SEMESTER GRADE CARD)																	
1	AEC	26MC210	SAP LABORATORY		MCA	0	0	1	0	1	28	2	30	-	50	-	50
Note: PCC - Professional Core Course, PCCL - Professional Core Course Lab, AEC - Ability Enhancement Course, PEC – Professional Elective Course, PECL - Professional Elective Course Lab CI - Classroom Instruction, LI - Laboratory Instruction, L - Lecture, T - Tutorial, P - Practical, TW & SL - Term work & Self Learning																	
NOTE: *As per VTU Circular No. VTU/BGM/Skill lab/1016/2026-27/1736, dated 15 July 2026.																	

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
SCHEME OF SECOND SEMESTER MCA PROGRAM
Scheme 2026 - AY 2026-27

SECOND SEMESTER Core Courses	
Course Code	Course Name
26MC21	ADVANCED JAVA
26MC22	DESIGN AND ANALYSIS OF ALGORITHMS
26MC23	SOFTWARE ENGINEERING AND AGILE DEVELOPMENT
26MCL24	ADVANCED JAVA LAB
26MCL25	DEVOPS

CYBER SECURITY SPECIALIZATION		DATA SCIENCE SPECIALIZATION		ENTERPRISE APPLICATION DEVELOPMENT SPECIALIZATION	
Course Code	Course Name	Course Code	Course Name	Course Code	Course Name
26MCCS26	CYBER SECURITY & ETHICAL HACKING	26MCDS26	ARTIFICIAL INTELLIGENCE AND AGENTIC AI	26MCEA26	ENTERPRISE APPLICATION TESTING & QUALITY ASSURANCE
26MCCS27	CRYPTOGRAPHY AND NETWORK SECURITY	26MCDS27	DATA SCIENCE	26MCEA27	AI FOR ENTERPRISE APPLICATIONS
26MCCSL28	ETHICAL HACKING LAB	26MCDL28	AGENTIC AI LAB	26MCEAL28	SOFTWARE TESTING & QUALITY ASSURANCE LAB
26MCCSL29	CRYPTOGRAPHY AND NETWORK SECURITY LAB	26MCDL29	BUSINESS INTELLIGENCE AND DATA ANALYTICS LAB	26MCEAL29	AI FOR ENTERPRISE APPLICATIONS LAB



SL NO	BOARD/ COURSE	COURSE CODE	COURSE	BOS	CREDIT DISTRIBUTION				OVERALL CREDITS	TLP CONTACT HOURS / SEM	TW & SL / SEM	TOTAL HOURS /SEM	EXAM HRS	MARKS		
					L	T	P	S						CIE	SEE	TOTAL
1	MCA/IPCC	24MCA31	MACHINE LEARNING	MCA	3	0	1	0	4	75	45	120	3	50	50	100
2	MCA/IPCC	24MCA32	WEB DEVELOPMENT USING FULL STACK	MCA	3	0	1	0	4	75	45	120	3	50	50	100
3	MCA/PEC	24MCA33X	PROFESSIONAL ELECTIVES - 2	MCA	3	0	0	0	3	45	45	90	3	50	50	100
4	MCA/PROJ	24MCA34	PROJECT WORK	MCA	0	0	9	0	9	135	135	270	3	50	50	100
TOTAL					9	0	11	0	20	330	270	600	12	200	200	400
Note: IPCC - Integrated Professional Core Courses, (No SEE for lab component, only CIE), PEC - Professional Elective Course, PROJ - Project Work L – Lecture, T- Tutorial, P-Practical, S - Skill Development Activities																



DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
SCHEME OF THIRD SEMESTER MCA PROGRAM
Scheme 2024 - AY 2026-27

PROFESSIONAL ELECTIVES-2		
SL NO	COURSE CODE	COURSE TITLE
1	24MCA331	DATA SCIENCE
2	24MCA332	ETHICAL HACKING
3	24MCA333	AUGMENTED REALITY AND VIRTUAL REALITY
4	24MCA334	INTERNET OF THINGS
5	24MCA335	UI/UX DESIGN



SL NO	BOARD/ COURSE	COURSE CODE	COURSE	BOS	CREDIT DISTRIBUTION				OVERALL CREDITS	TLP CONTACT HOURS / SEM	TW & SL / SEM	TOTAL HOURS /SEM	EXAM HRS	MARKS		
					L	T	P	S						CIE	SEE	TOTAL
1	MCA/PEC	24MCA41X	PROFESSIONAL ELECTIVES -3	MCA	3	0	0	0	3	45	45	90	3	50	50	100
2	MCA/PEC	24MCA42X	LAB BASED PROFESSIONAL ELECTIVES - 2	MCA	0	0	2	0	2	60	-	60	3	50	50	100
3	MCA/TS	24MCA43	TECHNICAL SEMINAR	MCA	0	0	0	2	2	-	60	60	3	50	50	100
4	AUD/AEC	24AUD44X	ONLINE COURSE (12 Weeks)		-	-	-	3	3	-	90	90	3	-	-	100
5	AUD/NCMC*	24AUD45	RESEARCH METHODOLOGY AND IPR - Online		Classes and evaluation procedures are as per the policy of the online course providers.										PP	
6	MCA/INT	24MCA46	INTERNSHIP	MCA	0	0	0	10	10	-	300	300	3	50	50	100
TOTAL					3	0	2	15	20	105	495	600	15	200	200	500
Note: IPCC - Integrated Professional Core Courses, (No SEE for lab component, only CIE), PEC- Professional Elective Course, PROJ- Project Work L – Lecture, T- Tutorial, P-Practical, S - Skill Development Activities																



DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
SCHEME OF FOURTH SEMESTER MCA PROGRAM
Scheme 2024 - AY 2026-27

PROFESSIONAL ELECTIVES-3		
SL NO	COURSE CODE	COURSE TITLE
1	24MCA411	AI ETHICS
2	24MCA412	DIGITAL FORENSICS
3	24MCA413	DESIGN THINKING AND INNOVATION
4	24MCA414	DIGITAL MARKETING
5	24MCA415	AGILE SOFTWARE DEVELOPMENT

LAB BASED PROFESSIONAL ELECTIVES -2		
SL NO	COURSE CODE	COURSE TITLE
1	24MCA421	CLOUD SERVICES MANAGEMENT
2	24MCA422	DEVOPS
3	24MCA423	BIG DATA ANALYTICS USING HP VERTICA
4	24MCA424	SOFTWARE TESTING USING SELENIUM
5	24MCA425	BLOCKCHAIN

NEW HORIZON COLLEGE OF ENGINEERING
Scheme of Teaching and Examinations: 2026- 27
MASTER OF BUSINESS ADMINISTRATION (MBA)

I Semester	
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S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	TLP Contact Hours / Sem	TW & SL / Sem	Total Hours /Sem	Exam Hrs	Marks		
					L	T	P	S						CIE	SEE	Total
1	PCC	26MBA11	Management and Organizational Behaviour	MBA	4	0	0	0	4	50	70	120	3	50	50	100
2	PCC	26MBA12	Accounting for Managers	MBA	4	0	0	0	4	50	70	120	3	50	50	100
3	PCC	26MBA13	Managerial Economics	MBA	4	0	0	0	4	50	70	120	3	50	50	100
4	PCC	26MBA14	Quantitative Methods	MBA	4	0	0	0	4	50	70	120	3	50	50	100
5	PCC	26MBA15	Marketing Management	MBA	4	0	0	0	4	50	70	120	3	50	50	100
6	PCC	26MBA16	Managerial Communication	MBA	3	0	0	0	3	40	50	90	3	50	50	100
7	AEC	26MBA17	Employability Skills	MBA	1	0	0	0	1	30	-	30	-	50	-	50
8	SEC	26MBA19	Application of Business Tools -I	MBA						30	-	-	-	-	-	-
Total									24					350	300	650

9	AEC	26MBA18	Skill Labs- I	MBA			1		1	30	-	-		50	50	100
Total 24+1=25																

NEW HORIZON COLLEGE OF ENGINEERING
Scheme of Teaching and Examinations: 2026- 27
MASTER OF BUSINESS ADMINISTRATION (MBA)

II Semester	
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S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	TLP Contact Hours / Sem	TW & SL / Sem	Total Hours /Sem	Exam Hrs	Marks		
					L	T	P	S						CIE	SEE	Total
1	PCC	26MBA21	Human Resource Management	MBA	4	0	0	0	4	50	70	120	3	50	50	100
2	PCC	26MBA22	Corporate Finance	MBA	4	0	0	0	4	50	70	120	3	50	50	100
3	PCC	26MBA23	Research Methodology & IPR	MBA	4	0	0	0	4	50	70	120	3	50	50	100
4	PCC	26MBA24	Analytics for Managers	MBA	3	0	2	0	4	50	70	120	3	50	50	100
5	PCC	26MBA25	Logistics & Supply Chain Management	MBA	4	0	0	0	4	50	70	120	3	50	50	100
6	PCC	26MBA26	Entrepreneurship Development	MBA	3	0	0	0	3	40	50	90	3	50	50	100
7	AEC	26MBA27	Social Immersion program through Seminar	MBA	0	0	1	0	1	-	-	-	-	50	-	50
8	SEC	26MBA29	Application of Business Tools -II	MBA						30	-	-	-	-	-	-
Total									24					350	300	650

9	AEC	26MBA28	Skill Labs- II	MBA			1		1	30	-	-		50	50	100
Total 24+1=25																



NEW HORIZON COLLEGE OF ENGINEERING

Scheme of Teaching and Examinations: 2026- 27
MASTER OF BUSINESS ADMINISTRATION (MBA)

III Semester

S. N o.	Course and Course Code		Course Title Human Resource/Marketing/Finance/Business Analytics	BoS	Credit Distribution				Overall Credits	TLP Contact Hours / Sem	TW & SL / Sem	Total Hours /Sem	Exam Hrs	Marks		
					L	T	P	S						CI E	SE E	Total
1	PCC*	26MBA31	Core 1	MBA	4	0	0	0	04	50	70	120	3	50	50	100
2	PCC*	26MBA32	Core 2	MBA	4	0	0	0	04	50	70	120	3	50	50	100
3	PEC	26MBAXX**	Elective 1	MBA	4	0	0	0	04	50	70	120	3	50	50	100
4	PEC	26MBAXX**	Elective 2	MBA	4	0	0	0	04	50	70	120	3	50	50	100
5	PEC	26MBAXX**	Elective 1	MBA	4	0	0	0	04	50	70	120	3	50	50	100
6	PEC	26MBAXX**	Elective 2	MBA	4	0	0	0	04	50	70	120	3	50	50	100
7	PCC*	26MBA33	Internship	MBA	0	0	4	0	04	-	-	120		50	50	100
Total									28					350	350	700

NEW HORIZON COLLEGE OF ENGINEERING

Scheme of Teaching and Examinations: 2026- 27
MASTER OF BUSINESS ADMINISTRATION (MBA)

IV Semester

S. No.	Course and Course Code		Course Title Human Resource/Marketing/Finance/Business Analytics	BoS	Credit Distribution				Overall Credits	TLP Contact Hours / Sem	TW & SL / Sem	Total Hours /Sem	Exam Hrs	Marks		
					L	T	P	S						CI E	SE E	Total
1	PCC*	26MBA41	Core 1	MBA	4	0	0	0	3	40	50	90	3	50	50	100
2	PCC*	26MBA42	Core 2	MBA	4	0	0	0	3	40	50	90	3	50	50	100
3	PEC	26MBAXX**	Elective 1	MBA	4	0	0	0	3	40	50	90	3	50	50	100
4	PEC	26MBAXX**	Elective 2	MBA	4	0	1	0	3	40	50	90	3	50	50	100
5	PEC	26MBAXX**	Elective 1	MBA	4	0	0	0	3	40	50	90	3	50	50	100
6	PEC	26MBAXX**	Elective 2	MBA	4	0	1	0	3	40	50	90	3	50	50	100
7	PCC*	26MBA43	Innovation Design Thinking Based Project Dissertation	MBA	0	0	6	0	6	-	-	180	-	50	50	100
8	AUD*	26AUD44	BOS Recommended online course	AUD					0	Classes & Evaluation procedures are as per the policy of the online course provided						
Total									24					350	350	700



NEW HORIZON COLLEGE OF ENGINEERING

M.Tech Computer Science and Engineering

Scheme of Teaching and Examinations for 2025 - 2027 BATCH

I SEMESTER

S.I.No	Course	Course Code	Course Title	Credit Distribution					CONTACT HRS	CIE	SEE	TOTAL
				L	T	P	S	CREDITS				
1	BSC	24SCS11	Mathematics for Computational Thinking	2	1	0	0	3	3	50	50	100
2	PCC	24SCS12	Advanced Algorithms	3	0	0	0	3	3	50	50	100
3	PCC	24SCS13	Concurrent Programming	3	0	0	0	3	3	50	50	100
4	PCC	24SCS14	UX/ UI design principles	2	0	0	1	3	4	50	50	100
5	MCC	24SCS15	Research methodology and IPR	2	0	0	1	3	4	50	50	100
6	PCCL	24SCL16	Advanced algorithms lab	0	0	2	0	2	4	50	50	100
7	PCCL	24SCL17	UX/ UI design principles lab	0	0	2	0	2	4	50	50	100
TOTAL				13	1	4	2	19	25	350	350	700



NEW HORIZON COLLEGE OF ENGINEERING

M.Tech Computer Science and Engineering

Scheme of Teaching and Examinations for 2025 - 2027 BATCH

II SEMESTER												
Sl.No	Course	Course Code	Course Title	Credit Distribution					CONTACT T HRS	CIE	SEE	TOTAL
				L	T	P	S	CREDITS				
1	PCC	24SCS21	Cloud Computing & Virtualization	3	0	0	0	3	3	50	50	100
2	PCC	24SCS22	Devops	2	0	0	1	3	3	50	50	100
3	PCC	24SCS23	Artificial Intelligence	3	0	0	0	3	3	50	50	100
4	PEC	24SCS24X	Professional Elective - 1	3	0	0	0	3	3	50	50	100
5	PEC	24SCS25X	Professional Elective - 2	3	0	0	0	3	3	50	50	100
6	PCCL	24SCL26	Cloud Computing & Virtualization lab	0	0	2	0	2	4	50	50	100
7	PCCL	24SCL27	Devops lab	0	0	2	0	2	4	50	50	100
TOTAL				14	0	4	1	19	23	350	350	700



NEW HORIZON COLLEGE OF ENGINEERING

M.Tech Computer Science and Engineering

Scheme of Teaching and Examinations for 2025 - 2027 BATCH

III - Semester													
S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	Contact Hours	Marks		
					L	T	P	S			CIE	SEE	Total
1	PCC/CSE	24SCS31	Advanced Computer Network & Security	CSE	3	0	0	1	4	5	50	50	100
2	PEC/CSE	24SCS32X	Professional Elective – III	CSE	3	0	0	0	3	3	50	50	100
3	OEC/DEP	24NHOPGXX	Open Elective Courses	CSE	3	0	0	0	3	3	50	50	100
4	PROJ/CSE	24SCS34	Project Work Phase – 1	CSE	0	0	3	0	3	-	100	--	100
5	SP/CSE	24SCS35	Societal Project	CSE	0	0	3	0	3	-	100	--	100
6	INT/CSE	24SCSI36	Internship	CSE	0	0	0	6	6	-	50	50	100
Total									22	11	400	200	600



Important Note: During the 3rd semester, students should enroll in and finish the recommended BOS Online (NPTEL) Courses for the 4th semester, as the evaluation will take place during the 4th semester.

Legends: **PCC:** Professional core courses, **PEC:** Professional Elective Courses, **IPCC-**Integrated Professional Core Courses. **MPS-**Mini Project With Seminar; **AUD/AEC;** Audit Courses/ Ability Enhancement Courses (Mandatory), **PCCL** – Professional Core Course lab, **L** - Lecture, **P**-Practical, **T** – Tutorial and **S-** Skill Development Activities (Hours are for Interaction between faculty and students). **Internship** - (6 weeks Internship completed during the intervening vacation of II & III semesters.)

Professional Elective - III	
Course Code	Course Title
24SCS321	Prompt Engineering
24SCS322	Distributed Computing
24SCS323	Crime Detection and Forensics
24SCS324	High Performance Computing
24SCS325	Service Oriented Architecture

24NHOPGXX – Open Elective Courses			
24NHOPG01	Data Analytics using R Programming	24NHOPG07	Physical Design
24NHOPG02	Robotic Process Automation	24NHOPG08	Programming of Industrial Robot
24NHOPG03	Juniper Routing and Switching	24NHOPG09	5G Communication
24NHOPG04	Blockchain	24NHOPG10	SAP
24NHOPG05	Schneider - Industrial Automation	24NHOPG11	Product Life Cycle Management
24NHOPG06	Cisco Routing & Switching	24NHOPG12	Industry 4.0



Note:

Project Work Phase-1: It's an opportunity for students to look into real-world challenges, applying theoretical knowledge to practical scenarios. This phase typically involves project selection, literature review, problem identification, and proposal formulation.

Societal Project: Aims to bridge technology with societal needs. It encourages students to address real-world challenges by leveraging their technical expertise for societal betterment. This initiative fosters a sense of responsibility, innovation, and ethical application of technology in creating solutions that positively impact communities.

Internship: Those, who have not pursued /completed the internship, shall be declared as fail in the internship course and have to complete the same during subsequent University examinations after satisfying the internship requirements. Internship SEE (University examination) shall be as per the University norms.

CIE marks shall be awarded by a committee comprising of HoD as Chairman, Guide/co-guide if any, and a senior faculty of the department. The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill, and performance in the Question and Answer session in the ratio of 50:25:25.



NEW HORIZON COLLEGE OF ENGINEERING

M.Tech Computer Science and Engineering

Scheme of Teaching and Examinations for 2025 - 2027 BATCH

IV – Semester													
S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	Contact Hours	Marks		
					L	T	P	S			CIE	SEE	Total
1	Project/ CSE	24SCS41	Project Work Phase – 2	CSE	0	0	20	0	20	-	100	100	200
2	AUD/AEC	24MOOC2	BOS Recommended Online Courses	CSE	Classes and evaluation procedures are as per the policy of the on line course providers.							pp	
Total									20	-	100	100	200

Note:

Project Work Phase-2: Students in consultation with the guide/co-guide (if any) in disciplinary project or guides/co-guides (if any) of all departments in case of multidisciplinary projects, shall continue to work of Project Work phase -1 to complete the Project work. Each student / batch of students shall prepare project document, and present a seminar.

CIE marks shall be awarded by a committee comprising of HoD as Chairman, all Guide/s and co-guide/s (if any) and a senior faculty of the concerned departments. The CIE marks awarded for project work phase -2, shall be based on the evaluation of Project Report, Project Presentation skill, and performance in the Question-and-Answer session in the ratio of 50:25:25.

SEE shall be at the end of IV semester. Project work evaluation and Viva-Voce examination (SEE), after satisfying the plagiarism check, shall be as per the University norms.

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