

AP EAMCET (EAPCET)

PYQ Analysis · Chapter Weightage · Cut-off Trends 2022–2025
MPC Engineering · OC Category · Based on Previous Year Data · 2026 Outlook

160

Total Questions (MPC Engg.)

160

Total Marks (1 per question)

160

Duration (minutes)

0

Negative Marking

25%

Min Qualifying Marks (OC)

AP EAMCET Exam Pattern (MPC): Mathematics — 80 Questions (80 Marks) · Physics — 40 Questions (40 Marks) · Chemistry — 40 Questions (40 Marks) · Total: 160 Questions, 160 Marks, 160 Minutes · MCQ format · No negative marking · **Qualifying mark: 40/160 (25%) for OC/BC · No minimum for SC/ST**

1. Mathematics — Chapter-wise Weightage (80 Questions)

Based on PYQ analysis 2020–2025

Chapter / Topic Group	Avg. Questions (out of 80)	Typical Weightage %	Priority
Algebra (Matrices, Complex Numbers, Quadratic Eq., Permutations, Binomial)	~18 Qs	22.5%	★★★★★
Calculus (Differentiation, Integration, Differential Equations)	~16 Qs	20.0%	★★★★★
Coordinate Geometry (Circles, Parabola, Ellipse, Hyperbola, Lines)	~15 Qs	18.8%	★★★★★
Trigonometry (Ratios, Identities, Inverse Trig, Heights & Distances)	~10 Qs	12.5%	★★★★■
Vectors & 3D Geometry	~8 Qs	10.0%	★★★★■
Statistics & Probability	~7 Qs	8.8%	★★★██
Limits, Continuity & Differentiability	~4 Qs	5.0%	★★★██
Mathematical Reasoning & Miscellaneous	~2 Qs	2.5%	★★███

Visual Weightage — Mathematics Topics

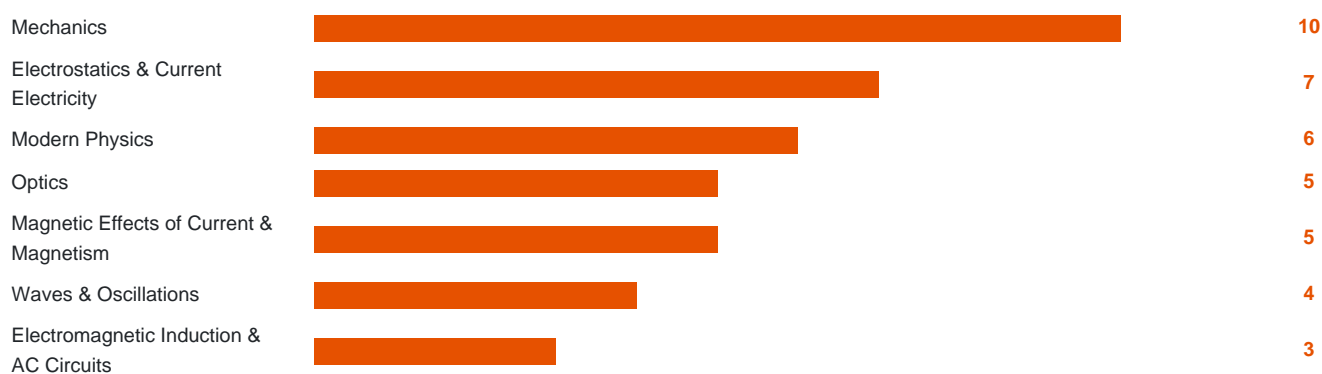
Algebra	<div style="width: 22.5%;"></div>	18
Calculus	<div style="width: 20.0%;"></div>	16
Coordinate Geometry	<div style="width: 18.8%;"></div>	15
Trigonometry	<div style="width: 12.5%;"></div>	10
Vectors & 3D Geometry	<div style="width: 10.0%;"></div>	8
Statistics & Probability	<div style="width: 8.8%;"></div>	7
Limits, Continuity & Differentiability	<div style="width: 5.0%;"></div>	4
Mathematical Reasoning & Miscellaneous	<div style="width: 2.5%;"></div>	2

2. Physics — Chapter-wise Weightage (40 Questions)

Based on PYQ analysis 2020–2025

Chapter / Topic Group	Avg. Questions (out of 40)	Typical Weightage %	Priority
Mechanics (NLM, Motion, Work-Energy, Rotation, Gravitation)	~10 Qs	25.0%	★★★★★
Electrostatics & Current Electricity	~7 Qs	17.5%	★★★★★
Modern Physics (Atoms, Nuclei, Photoelectric, Dual Nature)	~6 Qs	15.0%	★★★★★
Optics (Ray Optics, Wave Optics, Optical Instruments)	~5 Qs	12.5%	★★★★■
Magnetic Effects of Current & Magnetism	~5 Qs	12.5%	★★★★■
Waves & Oscillations (SHM, Sound, Wave Motion)	~4 Qs	10.0%	★★★██
Electromagnetic Induction & AC Circuits	~3 Qs	7.5%	★★★██

Visual Weightage — Physics Topics



3. Chemistry — Chapter-wise Weightage (40 Questions)

Based on PYQ analysis 2020–2025

Chapter / Topic Group	Avg. Questions (out of 40)	Typical Weightage %	Priority
Organic Chemistry (Hydrocarbons, Functional Groups, Name Reactions)	~14 Qs	35.0%	★★★★★
Physical Chemistry (Thermodynamics, Kinetics, Equilibrium, Solutions)	~12 Qs	30.0%	★★★★★
Inorganic Chemistry (p-Block, d-f Block, Coordination Compounds)	~10 Qs	25.0%	★★★★■
Electrochemistry	~3 Qs	7.5%	★★★██
Surface Chemistry & States of Matter	~1 Qs	2.5%	★★███

Visual Weightage — Chemistry Topics



4. Most Repeated PYQ Topics (2020–2025)

These appear almost every year —
guaranteed ROI

Subject	Topic	Years Appeared	Avg Qs	Why it Matters
MATHS	Definite Integrals	2020–2025	3–4	Appears every year; 3-5 Qs guaranteed
MATHS	Quadratic Equations	2020–2025	2–3	Direct formula-based Qs in every paper
MATHS	Circle (Coordinate Geometry)	2021–2025	2–3	Equation of circle, chord, tangent
MATHS	Matrices & Determinants	2020–2025	2–3	Operations, inverse, solutions
MATHS	Parabola & Ellipse	2021–2025	2–3	Focus, directrix, tangent formulas
MATHS	Permutations & Combinations	2020–2025	2	Very direct, scoring Qs
MATHS	Differential Equations	2020–2025	2	Separation of variables; linear DEs
PHYSICS	Newton's Laws of Motion	2020–2025	2–3	Friction, Atwood machine variants
PHYSICS	Electrostatics (Coulomb, Field)	2020–2025	2–3	Potential, field, capacitance
PHYSICS	Photoelectric Effect	2020–2025	1–2	Formula based; threshold frequency
PHYSICS	Optics (Mirror & Lens Formula)	2021–2025	2	Very direct formula applications
PHYSICS	Rotational Mechanics	2021–2025	2	MOI, torque, angular momentum
CHEM	Amines & Carbonyl Compounds	2020–2025	3–4	Reactions, tests, naming
CHEM	Chemical Kinetics (Rate Laws)	2020–2025	2–3	Order, half-life, Arrhenius Eq.
CHEM	Thermodynamics (Hess's Law)	2020–2025	2–3	Enthalpy, entropy, Gibbs energy
CHEM	p-Block Elements	2021–2025	2–3	Oxoacids, properties, reactions
CHEM	Coordination Compounds	2020–2025	2	IUPAC naming, EAN, isomerism
CHEM	Electrochemistry	2020–2025	2	Faraday's laws, cell EMF, Kohlrausch

5. AP EAMCET Marks vs Rank — Reference Chart

MPC Engineering - OC Category -
Based on 2023–2025 trends

Scores are normalised across shifts. The table shows the approximate rank a candidate with a given score can expect. Use this to set a target score and identify which colleges are in range.

Score Range (out of 160)	Approx. Rank (OC)	College Tier Available	Target Branches
150 – 160	1 – 200	JNTUK, AUCE — CSE/ECE (Top Govt.)	CSE, ECE — Any college
140 – 149	200 – 600	JNTUK, AUCE — CSE; GVP, JNTUA — CSE/ECE	CSE, ECE at top govt. colleges
130 – 139	600 – 1,500	AUCE, GVP, JNTUA — CSE; SVUCE — ECE	CSE/ECE at good govt. colleges
120 – 129	1,500 – 3,500	GVP, RVR&JC; — CSE; JNTUK — EEE/Mech	ECE at top, CSE at mid-tier

110 – 119	3,500 – 7,000	RVR&JC;, GITAM — CSE; GVP — EEE/Mech	IT, ECE at good Pvt. colleges
100 – 109	7,000 – 12,000	Top private colleges — ECE/EEE/Mech	Core branches at good Pvt. colleges
80 – 99	12,000 – 25,000	Mid-tier private colleges — all branches	All branches at private colleges
Below 80	25,000+	Tier-3 private colleges (many options)	Available; consider VR quota seats

6. College-wise Cutoff Trends — CSE Branch (OC / Boys)

Last Round Closing Rank · 2022–2025 ·
Source: APSCHE Official Data

College	2022	2023	2024	2025	Trend
JNTUK Kakinada	1,450	1,320	1,580	1,686	→ Stable
Andhra University (AUCE)	1,620	1,780	1,850	1,912	↑ Competitive
SVUCE (SV Univ., Tirupati)	2,100	2,350	2,800	3,100	↑ Competitive
GVP College of Engg, Vizag	2,800	2,950	3,050	3,158	→ Stable
JNTUA Anantapur	4,200	4,800	5,100	5,527	↑ Competitive
RVR & JC College, Guntur	6,500	7,200	7,800	8,300	↑ Competitive
Andhra Loyola College	7,800	8,500	8,900	9,200	→ Stable
GITAM University, Vizag	4,000	4,200	4,500	4,700	→ Stable
KL University, Guntur	5,000	5,500	6,000	6,400	→ Stable
VIT-AP University	3,200	3,500	3,700	4,000	→ Stable

↑ More Competitive = closing rank number has decreased over years (fewer students can get in) · ↓ Less Competitive = closing rank has increased ·
→ Stable = within 10% variation

7. Branch-wise Expected Cutoff 2026 — Top Government Colleges

Expected closing rank range for OC category

Branch	JNTUK Kakinada Expected 2026	AUCE Visakhapatnam Expected 2026	JNTUA Anantapur Expected 2026	GVP Vizag Expected 2026	Competitiveness
CSE	1,200–2,200	1,800–2,800	5,000–6,500	5,500–6,800	★★★★★ Highest
AI & DS	2,000–3,500	2,500–4,000	6,000–8,000	7,000–9,000	★★★★★ Very High
ECE	2,200–3,200	2,800–3,800	6,500–8,500	6,500–8,000	★★★★■ High
IT	3,000–5,000	N/A	N/A	N/A	★★★★■ High

EEE	3,200–4,200	4,000–5,500	8,000–10,000	N/A	★★★★ Moderate
Mechanical	4,000–5,500	5,000–7,000	9,000–12,000	N/A	★★★★ Moderate
Civil	5,500–7,500	5,000–6,500	10,000–14,000	N/A	★★■■■ Accessible

8. Category-wise Qualifying Marks & Rank Range (Engineering)

OC / BC / SC / ST · 2026 Expected
Based on 2025 Trends

Category	Min Qualifying Marks (out of 160)	Expected Closing Rank (General Engineering)	Strategy Tip
OC (General)	40+ (25%)	~12,000 – 18,000	Score 120+ for top-tier govt. college CSE
OC – Girls	38+	~13,000 – 20,000	Girls quota widens rank window in AP
BC-A	35+	~18,000 – 24,000	Reservation seats available at all tier colleges
BC-B	36+	~15,000 – 22,000	Includes Muslim OBC — wider options
BC-C / BC-D / BC-E	30–35+	~22,000 – 45,000	Limited seats per category; apply early in counselling
SC (Scheduled Caste)	No minimum*	~30,000 – 48,000	Still compete within reserved seats; higher score = better options
ST (Scheduled Tribe)	No minimum*	~35,000 – 52,000	Fewer candidates; excellent opportunities in top colleges
EWS (Economically Weaker Section)	40+	~15,000 – 25,000	10% reservation; income certificate required

* SC/ST have no minimum qualifying mark but admission is limited to reserved seats. A higher score still improves options within the reserved pool.

9. Preparation Strategy — Based on PYQ Trends

What to focus on for maximum score in
AP EAMCET

Mathematics: Score 55+ out of 80	Maths is 50% of your total paper. Target Definite Integrals (3-4 Qs guaranteed), Coordinate Geometry (Circles, Parabola, Ellipse — 5-7 Qs), and Algebra (Matrices, Quadratic, P&C; — 7-8 Qs). These 3 groups alone account for ~50% of Maths questions.
Physics: Score 25+ out of 40	Mechanics and Electrostatics appear every year with high weightage. Modern Physics (Photoelectric, Dual Nature) is direct and scoring. Spend time on formula memorisation — most Physics Qs are formula-based applications.
Chemistry: Score 28+ out of 40	Organic Chemistry (Amines, Carbonyl Compounds, Reactions) is consistently the highest-weightage section. NCERT reactions and named reactions are tested directly. Chemical Kinetics and Thermodynamics numericals repeat across years.
PYQ Strategy: Solve Last 10 Years	AP EAMCET repeats approximately 30-40% of questions from previous years with minor variations. Solving 2015–2024 papers in timed conditions gives a direct rank advantage. Focus especially on 2022–2024 papers as the pattern is most relevant.

Time Management: 160 Qs in 160 Minutes

Allocate: Maths — 80 min (1 min/Q average), Physics — 40 min, Chemistry — 40 min. Start with the subject you're strongest in to build confidence. Skip tough Qs and return — no negative marking means never leave any Q blank.

Score Target for Top Govt. College CSE

You need 130+ marks (Rank ~600–1500) for JNTUK/AUCE CSE. For ECE at JNTUK/AUCE: 120+ marks (Rank ~2000–3500). For CSE at GVP/RVR&JC: 110–120 marks (Rank ~4000–7000). Set your target score based on your preferred college.

AP EAMCET 2026 Key Dates (Expected): Exam (MPC Engg.): May 2026 · Results: June 2026 · Counselling Round 1: July 2026
· Official Website: cets.apsche.ap.gov.in/EAPCET · Conducted by: JNTU Kakinada on behalf of APSCHE

Data Sources: APSCHE Official Cutoff Data 2022–2025 · Careers360 · CollegeDunia · Shiksha AP EAMCET Analysis · PYQ weightage based on expert analysis of 2020–2025 papers · Cutoff ranks are approximate and vary by round, category, and year · Always verify at: cets.apsche.ap.gov.in/EAPCET ·

Compiled: May 2026