



STUDY PLAN FOR ESE GS & APTITUDE PRELIMS - 2019

- This is a 120 + 30 days plan from JULY 9 to DECEMBER 7
- Consists of 120 days of study plan to cover all 10 topics, including the current affairs.
- Incorporated with partial and full syllabus tests on the individual subjects
- Flexibility to choose from 2 test plans - **MagLev** and **HyperLoop**. For details watch the video <https://www.youtube.com/watch?v=AxzMBjepR80&t=2s>
- **MagLev** is the plan which finishes one subject at a time, take tests and then go to next subject
- **HyperLoop** is the plan for those people who like to mix up the subjects for studying. They will finish two different subjects at a go.
- Considering students of above two types, we will release tests for two subjects at one schedule. You can take the tests as per your plan.
- You can allot every day 8 hrs of study, 5 hrs for technical, 2-3 hrs for the GS paper 1
- You can give 30 min extra if you are following current affairs and quiz daily. Also give the 30 min extra time for the partial topic wise tests.

Make your own plan

- This is the additional feature in this year's plan. Download the excel sheet given.
- Enter the no:of hours per day you can spend in the column and get the total no: of days for your plan - total and topic wise
- You can plan your timetable as per the no:of hours you can give for GS portion a day.
- We have followed a standard of 2 hours per day. For the people who can allot more time, they can change the number of days in the given excel sheet, calculate the days for each subject and make their own plan.

Revision Plan

- There is 30 days of revision plan, accompanied with the comprehensive tests (from 7th November to 7th December)

Material to study:

For registered students: Follow the video lectures, any additional material required will be provided.

For other students: Try to follow what ever you have already studied. Apart from that, you can see the last year's study plan for the reference materials.

ESE GS & APTITUDE TOPICS

1. Energy & Environment
2. ICT
3. Material Science
4. Ethics
5. Quality Control
6. Design, Drawing and Safety
7. Project Management
8. Engineering Mathematics
9. Engineering Aptitude
10. Current affairs(Basic portion is optional)

Daily Plan

| Topics | Engineering Subjects | General Studies(Without Daily Current Affairs) | General Studies(With Daily Current Affairs) |
|-------------------------|----------------------|--|--|
| Time allocation | 5 hours | 2-3 hours | 3.30 hours |
| Time subdivision | Up to you | Topics - 2.45 hrs Revision - 15 min | Topics - 2.45 hrs Revision - 15 min Daily news and quiz -30min |

Additional Notes

- You can have periodic revisions as per your speed
- You can have **Sudden Revisions** once you complete the individual subjects - say once in 20 days.
- Basic Concepts(Static portion) in Economic, Social and Industrial Development are not included in our plan as most of these issues are covered in Daily News.

Test Series Registration

- Click here - [Adapala Academy](#) for the test series platform
- For instructions click here - [IES GS](#)
- Tests starts from 15th July
- Individual Tests will be activated as per the schedule given in the study plan

TOPIC WISE STUDY PLAN

| PLAN MAGLEV | | | | PLAN HYPERLOOP | |
|-------------|-----------------------------|---|--------------------|----------------|-----------------------------|
| DAY | SUBJECTS | TOPICS COVERED | VIDEO LENGTH (Hrs) | DAY | SUBJECTS |
| July 9 | Environment 1 | Ecology: Characteristics of ecosystem, energy flow, nutrient cycling, interactions, Important ecosystems, biomes, biodiversity | 4 | July 9 | Environment 1 |
| July 10 | | Atmosphere: composition, structure | 2 | July 10 | |
| July 11 | | Atmosphere: weather and climate | 2 | July 11 | |
| July 12 | | Degradation and pollution: air - pollutants, pollution, effects, prevention, control | 3 | July 12 | |
| July 13 | | Degradation and pollution: Water - pollutants, pollution, effects, prevention, control, radiation pollution | 3 | July 13 | |
| July 14 | | Degradation and pollution: land degradation, ecosystem | 3 | July 14 | |
| July 15 | Test - Environment 1 | ozone: formation, depletion, protection | 2 | July 15 | Test - Environment 1 |

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|----------------|--|---|---|---------|-----------------------------------|
| July 16 | Environment 2 + Energy | Climate change: Causes, effects, adaptation and mitigation, global and national efforts | 4 | July 16 | Project Management 1 |
| July 17 | | Conservation: protection, preservation, protected areas | 2 | July 17 | |
| July 18 | | Conservation: global efforts | 4 | July 18 | Test -Project Management 1 |
| July 19 | | Conservation: national efforts, EIA | 4 | July 19 | Environment 2 + Energy |
| July 20 | | Energy: Classification | 4 | July 20 | |
| July 21 | | Energy: production | 2 | July 21 | |
| July 22 | Test - Environment 2 + Energy | Energy: Conservation, national efforts | 3 | July 22 | |
| July 23 | Revision - Environment and Energy Full test -Environment and Energy | | 2 | July 23 | |
| July 24 | Project Management 1 | Basics of Project Management: Introduction, Project life cycles, Level of effort Project Initiation & Formulation: Decision matrix, weighted decision matrix, Project appraisals, Financial analysis/feasibility | 3 | July 24 | |

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|---------|-----------------------------------|--|---|---------|--|
| July 25 | | Project Initiation & Formulation: Methods of demand forecasting, Project Charter, Project organisation, Project Manager, Tasks and Functions of project planning | 2 | July 25 | Test -Environment 2 + Energy |
| July 26 | Test -Project Management 1 | Project Planning & Scheduling: Work breakdown structure, Scheduling process, BAR chart, Linked chart, Milestone chart | 2 | July 26 | Revision - Environment and Energy Full test -Environment and Energy |
| July 27 | Project Management 2 | Project Planning & Scheduling: Network diagrams, CPM, PERT, Resource levelling and Resource smoothing | 2 | July 27 | Project Management 2 |
| July 28 | | Project Monitoring & Control: Performance evaluation techniques: Earned value analysis. Critical ratio, Line of Balance, Graphical evaluation and review technique | 2 | July 28 | |
| July 29 | | Project Monitoring & Control: Project Crashing and time-cost trade off | 2 | July 29 | |
| July 30 | | Project Closing: Evaluation criteria and methods, Project auditing, Project termination, Project contracts | 2 | July 30 | |
| July 31 | Test -Project Management 2 | Miscellaneous topics: Enterprise resource Planning, ABC analysis etc | 2 | July 31 | Test -Project Management 2 |

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|--------|--|---|---|--------|--|
| Aug 1 | Revision - PM Full Test -Project Management | | | Aug 1 | Revision - PM Full Test -Project Management |
| Aug 2 | Current Affairs 1 | Current Affairs of upto June 2018 | | Aug 2 | |
| Aug 3 | Test -CA1 | Current Affairs of upto June 2018 | | Aug 3 | Test -CA1 |
| Aug 4 | Design 1 | Introduction, Aesthetics | 3 | Aug 4 | Design 1 |
| Aug 5 | | Ergonomics | 3 | Aug 5 | |
| Aug 6 | | Statistics: forces | 2 | Aug 6 | |
| Aug 7 | | Statistics: friction | 2 | Aug 7 | |
| Aug 8 | | Statistics: centroids, moment of inertia | 2 | Aug 8 | |
| Aug 9 | | Dynamics | 2 | Aug 9 | |
| Aug 10 | | Stress: simple stresses | 2 | Aug 10 | |
| Aug 11 | | Test -Design 1 | Stress: Stresses on Oblique Planes | 2 | |

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|---------------|--|---|---|--------|---------------------------|
| Aug 12 | Design 2 | Stress: elastic constants | 2 | Aug 12 | Material Science 1 |
| Aug 13 | | Stress: bending stress, torsional shear stress | 2 | Aug 13 | |
| Aug 14 | | Stress: Columns, strain energy | 2 | Aug 14 | |
| Aug 15 | | Mechanical systems: clutches | 2 | Aug 15 | |
| Aug 16 | | Mechanical systems: springs | 2 | Aug 16 | |
| Aug 17 | | Mechanical systems: brakes, belts etc | 2 | Aug 17 | |
| Aug 18 | | Electrical systems | 3 | Aug 18 | |
| Aug 19 | Test -Design 2 | Construction Design | 2 | Aug 19 | Design 2 |
| Aug 20 | Revision - Design Full test -design | | | Aug 20 | |
| Aug 21 | Material Science 1 | Atomic Structure & Bonding | 3 | Aug 21 | |
| Aug 22 | | Crystalline Solids : unit cell | 2 | Aug 22 | |
| Aug 23 | | Crystalline Solids : structure, planes | 2 | Aug 23 | |

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| Aug 24 | | Crystalline Solids : imperfections, types of defects | 2 | Aug 24 | |
| Aug 25 | | Phase diagrams : mixtures, phases, different systems, heat treatment. | 2 | Aug 25 | |
| Aug 26 | | Phase diagrams : mixtures, phases, different systems, heat treatment. | 2 | Aug 26 | Test -Design 2 |
| Aug 27 | Test - Material Science 1 | Mechanical properties | 3 | Aug 27 | Revision - Design Full test -design |
| Aug 28 | Material Science 2 | Magnetic Properties | 3 | Aug 28 | Material Science 2 |
| Aug 29 | | Electrical and Optical Properties | 4 | Aug 29 | |
| Aug 30 | | Ferrous materials | | Aug 30 | |
| Aug 31 | | Non-Ferrous metals and alloys | | Aug 31 | |
| Sep 1 | | Processing of materials | | Sep 1 | |
| Sep 2 | | Ceramics and composites | | Sep 2 | |
| Sep 3 | | Test - Material Science 2 | Polymers | | |

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|--------|---|---|---|--------|---|
| Sep 4 | Revision - MS Full Test - MS | | | Sep 4 | Revision - MS Full Test - MS |
| Sep 5 | Drawing 1 | Geometry and Scales | 4 | Sep 5 | Drawing 1 |
| Sep 6 | | Curves | 3 | Sep 6 | |
| Sep 7 | Test -Drawing 1 | Drawing: projections of points, lines | 2 | Sep 7 | Test -Drawing 1 |
| Sep 8 | Drawing 2+ Safety | Drawing: projections of planes | 2 | Sep 8 | |
| Sep 9 | | Drawing: projections of planes | 2 | Sep 9 | |
| Sep 10 | | Drawing: projections of solids, development of surfaces | 2 | Sep 10 | |
| Sep 11 | | Drawing: development of surfaces Safety: Electrical safety | 2 | Sep 11 | |
| Sep 12 | | Safety: Electrical safety | 2 | Sep 12 | |
| Sep 13 | | Safety: Fire safety | 4 | Sep 13 | |
| Sep 14 | | Test - Drawing 2+ Safety | Safety: construction and road safety Safety regulations in India | 3 | Sep 14 |

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|--------|---|---|---|--------|---|---------------------|
| Sep 15 | Revision - Drawing and Safety Full Test - Drawing and Safety | | | Sep 15 | Revision - Drawing and Safety Full Test - Drawing and Safety | |
| Sep 16 | CurrentAffairs 2 | Current Affairs of July and August 2018 | | Sep 16 | | |
| Sep 17 | Test - CA 2 | Current Affairs of July and August 2018 | | Sep 17 | Test - CA 2 | |
| Sep 18 | ICT 1 | Information : computing and processing | 2 | Sep 18 | 2 | |
| Sep 19 | | Information : input, output and storage | 2 | Sep 19 | 2 | |
| Sep 20 | | Networking : computer networks, devices, Internet, web, web technologies | 3 | Sep 20 | 3 | |
| Sep 21 | | Networking : Wireless communication, standards | 2 | Sep 21 | 2 | |
| Sep 22 | | Communication :systems, satellites, navigation, remote sensing | 3 | Sep 22 | 3 | |
| Sep 23 | | Communication : Mobile communication | 3 | Sep 23 | 2 | |
| Sep 24 | | Test -ICT -1 | Communication : IOT, telephone, Radio etc, | 3 | Sep 24 | Test -ICT -1 |
| Sep 25 | | ICT 2 | Applications : Engineering and others | 3.5 | Sep 25 | Quality1 |

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|--------|---|---|---|--------------|---|
| Sep 26 | | Advancements : bigdata, ML, AI etc | 2 | Sep 26 | |
| Sep 27 | | e-governance : Digital India and other schemes | 2 | Sep 27 | |
| Sep 28 | | Applications : Digital India and other schemes | 2 | Sep 28 | |
| Sep 29 | | Applications : e-education | 3 | Sep 29 | |
| Sep 30 | Test - ICT 2 | cyber security | 2 | Sep 30 | Test -Quality -1 |
| Oct 1 | Revision - ICT Full Test - ICT | | | Oct 1 | ICT 2 |
| Oct 2 | Quality1 | TQM - part 1 | 2 | Oct 2 | |
| Oct 3 | | TQM - part 2 | 2 | Oct 3 | |
| Oct 4 | | SQC - part 1 | 2 | Oct 4 | |
| Oct 5 | | SQC - part 2 | 2 | Oct 5 | |
| Oct 6 | | six sigma | 2 | Oct 6 | Test - ICT 2 |
| Oct 7 | Test -Quality -1 | Inventory control | 3 | Oct 7 | Revision - ICT Full Test - ICT |

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|---------------|---|---|--------|---------------|---|
| Oct 8 | Quality 2 | JIT | 2 | Oct 7 | Quality 2 |
| Oct 9 | | Reliability | 2 | Oct 8 | |
| Oct 10 | | Inspection and Audit | 1.5 | Oct 9 | |
| Oct 11 | | Manufacturing | 2 | Oct 10 | |
| Oct 12 | Test -Quality -2 | Construction, Services | 2 | Oct 12 | Test -Quality -2 |
| Oct 13 | Revision - Quality Full Test - Quality | | | Oct 13 | Revision - Quality Full Test - Quality |
| Oct 14 to 18 | Ethics | General Ethics, Organisational Ethics, Professional Ethics, Engineering Ethics | 5 days | Oct 14 to 18 | Ethics |
| Oct 19 | Revision - Ethics Test - Ethics | | | Oct 19 | Revision - Ethics Test - Ethics |
| Oct 20 to 23 | Maths 1 | Matrices, Numerical Methods, Calculus | 5 days | Oct 20 to 23 | Maths 1 |
| Oct 24 | Test - Maths -1 | Matrices, Numerical Methods, Calculus | | Oct 24 | Test - Maths -1 |
| Oct 25 to 27 | Maths 2 | Probability & Statistics, Complex Numbers & Functions, Laplace Transforms, Fourier Transforms, Z-Transforms, Differential Equations | 6 days | Oct 25 to 27 | Maths 2 |

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|---------------|--|---|--------|---------------|--|
| Oct 28 | Test - Maths -2 | Probability & Statistics, Complex Numbers & Functions, Laplace Transforms, Fourier Transforms, Z-Transforms, Differential Equations | | Oct 28 | Test - Maths -2 |
| Oct 29 | Revision - Maths Full Test - Maths | | | Oct 29 | Revision - Maths Full Test - Maths |
| Oct 30, 31 | Aptitude 1 | Numbers, Percentages, Profit and loss, Interests, Averages, Ratio and Proportion, Equations, Time and Distance | 3 days | Oct 30, 31 | Aptitude 1 |
| Nov 1 | Test -Aptitude -1 | Numbers, Percentages, Profit and loss, Interests, Averages, Ratio and Proportion, Equations, Time and Distance | | Nov 1 | Test -Aptitude -1 |
| Nov 2,3 | Aptitude 2 | Time and Work, Mixtures and Alligations, Reasoning - Venn diagrams, blood relations, directions, Puzzles, Geometry and mensuration | 3 days | Nov 2,3 | Aptitude 2 |
| Nov 4 | Test -Aptitude -2 | Time and Work, Mixtures and Alligations, Reasoning - Venn diagrams, blood relations, directions, Puzzles, Geometry and mensuration | | Nov 4 | Test -Aptitude -2 |
| Nov 5 | Revision - Aptitude Full Test -Aptitude | | | Nov 5 | Revision - Aptitude Full Test -Aptitude |
| Nov 6 | CurrentAffairs 3 | Current Affairs of Sep and October 2018 | | Nov 6 | CurrentAffairs 3 |
| Nov 7 | Test -CA3 | Current Affairs of Sep and October 2018 | | Nov 7 | Test -CA3 |

REVISION PLAN

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|------------------------|--|---|---------|
| Nov 8 -16 | | 1. Environment + Energy 2. PM 3. Design 4. MS 5. Drawing+Safety | 10 days |
| Nov 17 | | Test - CT 1 | |
| Nov 18 to Nov 26 | | 1. ICT 2. Quality 3. Ethics 4. Maths 5. Aptitude 6. CA | 10 days |
| Nov 27 | | Test -CT 1 | |
| Nov 28 -Dec 1 | | Full Syllabus | 5 days |
| Dec 2 | | Full test - CT3 | |
| Dec 3 - 6 | | Full Syllabus | 5 days |
| Dec 7 | | Full test - CT4 | |

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