



# Aakash

Medical | IIT-JEE | Foundations



# 2025

# JEE'S Secrets

Presented by **Aakash**

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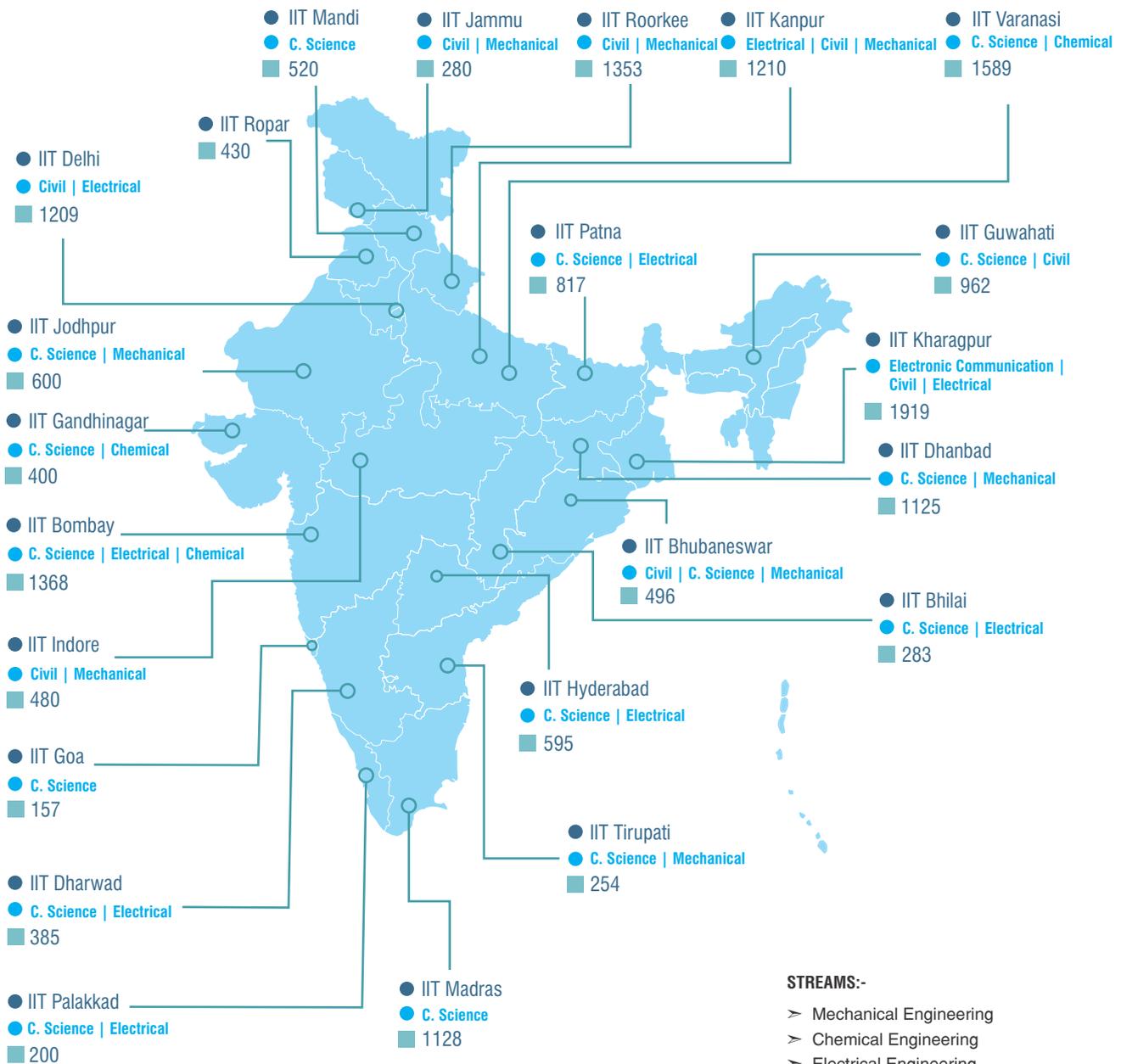


# Engineering Seats in IITs

Total IIT Colleges in India **23**

Total Number of Seats **17760**

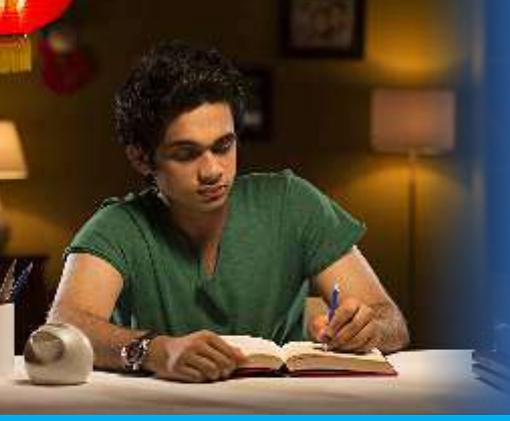
● NAME ● POPULAR STREAMS ■ SEAT



**STREAMS:-**

- > Mechanical Engineering
- > Chemical Engineering
- > Electrical Engineering
- > Computer Science Engineering
- > Civil Engineering
- > Electronic Communication Engineering

**Note:** This documents represent total no. of seats available in IITs as per information available on official websites till June 2024 and highlighted here the most popular streams of respective colleges opted from students in the last 5 Years.



# Engineering Seats in NITs

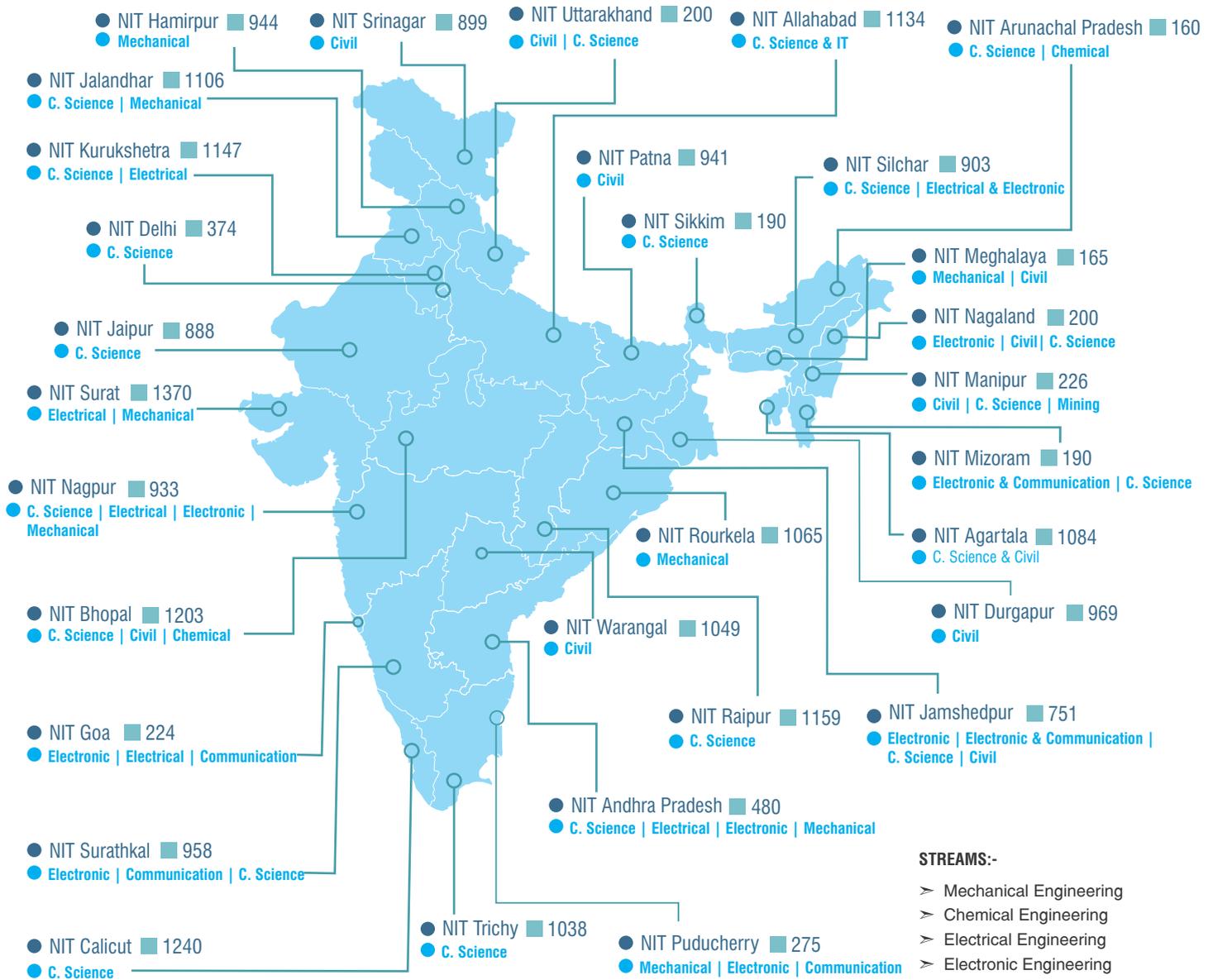
Total NIT  
Colleges in India

**31**

Total Number  
of Seats

**23465**

● NAME      ■ SEAT      ● POPULAR STREAMS



**STREAMS:-**

- > Mechanical Engineering
- > Chemical Engineering
- > Electrical Engineering
- > Electronic Engineering
- > Computer Science Engineering
- > Civil Engineering
- > Electronic & Communication Engineering
- > Mining Engineering

**Note:** This documents represent total no. of seats available in NITs as per information available on official websites till June 2024 and highlighted here the most popular streams of respective colleges opted from students in the last 5Years.

# Indian Institute of Technology JEE (Advanced) Colleges

Name	City	State	NIRF Rank
Indian Institute of Technology Madras	Chennai	Tamil Nadu	1
Indian Institute of Technology Delhi	New Delhi	Delhi	2
Indian Institute of Technology Bombay	Mumbai	Maharashtra	3
Indian Institute of Technology Kanpur	Kanpur	Uttar Pradesh	4
Indian Institute of Technology Roorkee	Roorkee	Uttarakhand	5
Indian Institute of Technology Kharagpur	Kharagpur	West Bengal	6
Indian Institute of Technology Guwahati	Guwahati	Assam	7
Indian Institute of Technology Hyderabad	Hyderabad	Telangana	8
Indian Institute of Technology Indore	Indore	Madhya Pradesh	14
Indian Institute of Technology (Banaras Hindu University) Varanasi	Varanasi	Uttar Pradesh	15
Indian Institute of Technology (Indian School of Mines)	Dhanbad	Jharkhand	17
Indian Institute of Technology Gandhinagar	Gandhinagar	Gujarat	18
Indian Institute of Technology Ropar	Rupnagar	Punjab	22
Indian Institute of Technology Jodhpur	Jodhpur	Rajasthan	30
Indian Institute of Technology Mandi	Mandi	Himachal Pradesh	33
Indian Institute of Technology Patna	Patna	Bihar	41
Indian Institute of Technology Bhubaneswar	Bhubaneswar	Odisha	47
Indian Institute of Technology Tirupati	Tirupati	Andhra Pradesh	59
Indian Institute of Technology Jammu	Jammu	Jammu & Kashmir	67
Indian Institute of Technology Palakkad	Palakkad	Kerala	69
Indian Institute of Technology Bhilai	Bhilai	Chhattisgarh	81
Indian Institute of Technology Dharwad	Dharwad	Karnataka	93

# National Institute of Technology JEE (Main) Colleges

Name	City	State	NIRF Rank
National Institute of Technology Tiruchirappalli	Tiruchirappalli	Tamil Nadu	9
National Institute of Technology Karnataka	Surathkal	Karnataka	12
National Institute of Technology Rourkela	Rourkela	Odisha	16
National Institute of Technology Warangal	Warangal	Telangana	21
National Institute of Technology Calicut	Kozhikode	Kerala	23
Malaviya National Institute of Technology	Jaipur	Rajasthan	37
National Institute of Technology Silchar	Silchar	Assam	40
Visvesvaraya National Institute of Technology	Nagpur	Maharashtra	41
National Institute of Technology Durgapur	Durgapur	West Bengal	43
Dr. B. R. Ambedkar National Institute of Technology	Jalandhar	Punjab	46
Motilal Nehru National Institute of Technology	Prayagraj	Uttar Pradesh	49
National Institute of Technology Delhi	Delhi	Delhi	51
National Institute of Technology Patna	Patna	Bihar	56
National Institute of Technology Kurukshetra	Kurukshetra	Haryana	58
Sardar Vallabhbhai National Institute of Technology	Surat	Gujarat	65
National Institute of Technology Raipur	Raipur	Chhattisgarh	70
National Institute of Technology Meghalaya	Shillong	Meghalaya	72
Maulana Azad National Institute of Technology	Bhopal	Madhya Pradesh	80
National Institute of Technology Srinagar	Srinagar	Jammu and Kashmir	82
National Institute of Technology Goa	Ponda	Goa	90
National Institute of Technology Agartala	Agartala	Tripura	91
National Institute of Technology Manipur	Imphal	Manipur	95



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## Estimate your rank in

# JEE (Advanced) 2025



**ESTIMATE YOUR JEE (Advanced) 2025 RANK IN ADVANCED ON THE BASIS OF YOUR MARKS**

S.No.	JEE Advanced 2024 Rank Range	JEE Advanced 2024 Score
1.	1-50	355-312
2.	51-100	312-300
3.	101-200	300 - 282
4.	201-500	282 - 258
5.	501-1000	258 - 233
6.	1001-1500	233 - 219
7.	1501-2000	219 - 207
8.	2001-2500	207 - 199
9.	2501-3000	199 - 192
10.	3001-3500	192 - 186
11.	3501-4000	186 - 181
12.	4001-4500	181 - 176
13.	4501-5000	176 - 172
14.	5001-6000	172 - 165
15.	6001-7000	165 - 159
16.	7001-8000	159 - 154
17.	8001-9000	154 - 149
18.	9001-10000	149 - 145
19.	10001-15000	145 - 130
20.	15001-20000	130 - 119
21.	20001-25000	119 - 110
22.	25001-Qualified	110 - 109



**JEE (Advanced) 2024 Qualifying Marks**

Category	Individual Subject	Aggregate
General	10	109
OBC	9	98
SC/ST/PWD	5	54
Preparatory Course	2	27



**Top Academic Courses of JEE (Advanced)**

Academic Courses
Computer Science and Engineering
Electrical Engineering
Mechanical Engineering
Electronics and Communications Engineering
Civil Engineering
Chemical Engineering
Mathematics and Computing
Engineering Physics
Aerospace Engineering



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## Estimate your rank in JEE (Main) 2025



ESTIMATE YOUR JEE MAIN 2025 RANK IN  
ADVANCED ON THE BASIS OF YOUR MARKS

S.No.	JEE Main 2024 Rank Range	JEE Main 2024 percentile Score
1.	1-50	100.0000000 - 100.0000000
2.	51-100	100.0000000 - 99.9972091
3.	101-200	99.9972029 - 99.9923920
4.	201-500	99.9916274 - 99.9777024
5.	501-1000	99.9776097 - 99.9457792
6.	1001-1500	99.9445588 - 99.9149151
7.	1501-2000	99.9142338 - 99.8827842
8.	2001-2500	99.8816884 - 99.8558520
9.	2501-3000	99.8522444 - 99.8195452
10.	3001-3500	99.8195426 - 99.7888254
11.	3501-4000	99.7878346 - 99.7575445
12.	4001-4500	99.7547877 - 99.7269803
13.	4501-5000	99.7269803 - 99.6934350
14.	5001-6000	99.6919351 - 99.6323255
15.	6001-7000	99.6316073 - 99.5709960
16.	7001-8000	99.5678235 - 99.5084834
17.	8001-9000	99.5075311 - 99.4446350
18.	9001-10000	99.4445960 - 99.3835687
19.	10001-15000	99.3765608 - 99.0616215
20.	15001-20000	99.0616215 - 98.7505917
21.	20001-25000	98.7492699 - 98.4349645
22.	25001-30000	98.4326925 - 98.1066974
23.	30001-40000	98.1066974 - 97.4508016
24.	40001-50000	97.4507906 - 96.7829370
25.	50001-Qualified	96.7829370 - 96.0462910



JEE MAIN CUT-OFF 2024

Category	Percentile Score
General	93.2362181
General - EWS	79.6757881
OBC-NCL	60.0923182
SC	46.697584
ST	81.3266412
Gen-PWD	0.0018700



# Must Do Topics to Score Higher in JEE (Advanced)

18 Years Analysis



## Chapter Name (Physics)

## Chapter-wise Distribution of Questions

System Of Particles And Rotational Motion	59
Ray Optics And Optical Instruments	56
Thermodynamics	43
Current Electricity	40
Mechanical Properties Of Fluids	40
Moving Charges And Magnetism	39
Waves & Sound	38
Electric Charges And Fields	37
Work, Energy And Power	33
Nuclei	33



## Chapter Name (Chemistry)

## Chapter-wise Distribution of Questions

The P-Block Elements	75
Aldehydes, Ketones And Carboxylic Acids	74
Coordination Compounds	45
Thermodynamics	40
Electrochemistry	36
Chemical Kinetics And Nuclear Chemistry	32
Hydrocarbons	31
Organic Chemistry Some Basic Principles & Techniques	30
Principles Of Qualitative Analysis	27
Amines	24



## Chapter Name (Mathematics)

## Chapter-wise Distribution of Questions

Conic Sections	92
Integrals	56
Complex Number And Quadratic Equations	51
Application Of Derivatives	50
Trigonometric Functions	50
Probability	50
Continuity And Differentiability	46
Vector Algebra	42
Three Dimensional Geometry	41
Sequences And Series	34



# Must Do Topics to Score Higher in JEE (Main)

15 Years Analysis



## Chapter Name (Physics)

## Chapter-wise Distribution of Questions

Current Electricity	302
System of particles and Rotational motion	213
Moving charges and Magnetism	180
Ray Optics	169
Semiconductors	161
Thermodynamics	159
Physical World & Units and Measurement	158
Electric Potential & Capacitance	156
Work, Power and Energy	153
Laws of Motion	151



## Chapter Name (Chemistry)

## Chapter-wise Distribution of Questions

Biomolecules, Polymers, Chemistry in Everyday Life	280
Organic Chemistry : Some Basic Principles and Techniques	243
Co-ordination Compounds	228
Aldehyde Ketone and Carboxylic Acid	222
Electrochemistry, Redox Reactions & Volumetric Analysis	217
p-Block Elements (group 13 to group 18)	211
Chemical Bonding and Molecular Structure	172
Equilibrium	166
Amines	156
d & f - Block Elements	147



## Chapter Name (Mathematics)

## Chapter-wise Distribution of Questions

3-Dimensional Geometry	278
Matrices And Determinants	274
Limits, Continuity & Differentiability	250
Sequence & Series	234
Definite Integrals	212
Vectors	199
Application of Derivatives	186
Differential Equations	185
Binomial Theorems & Applications	181
Permutations & Combinations	153



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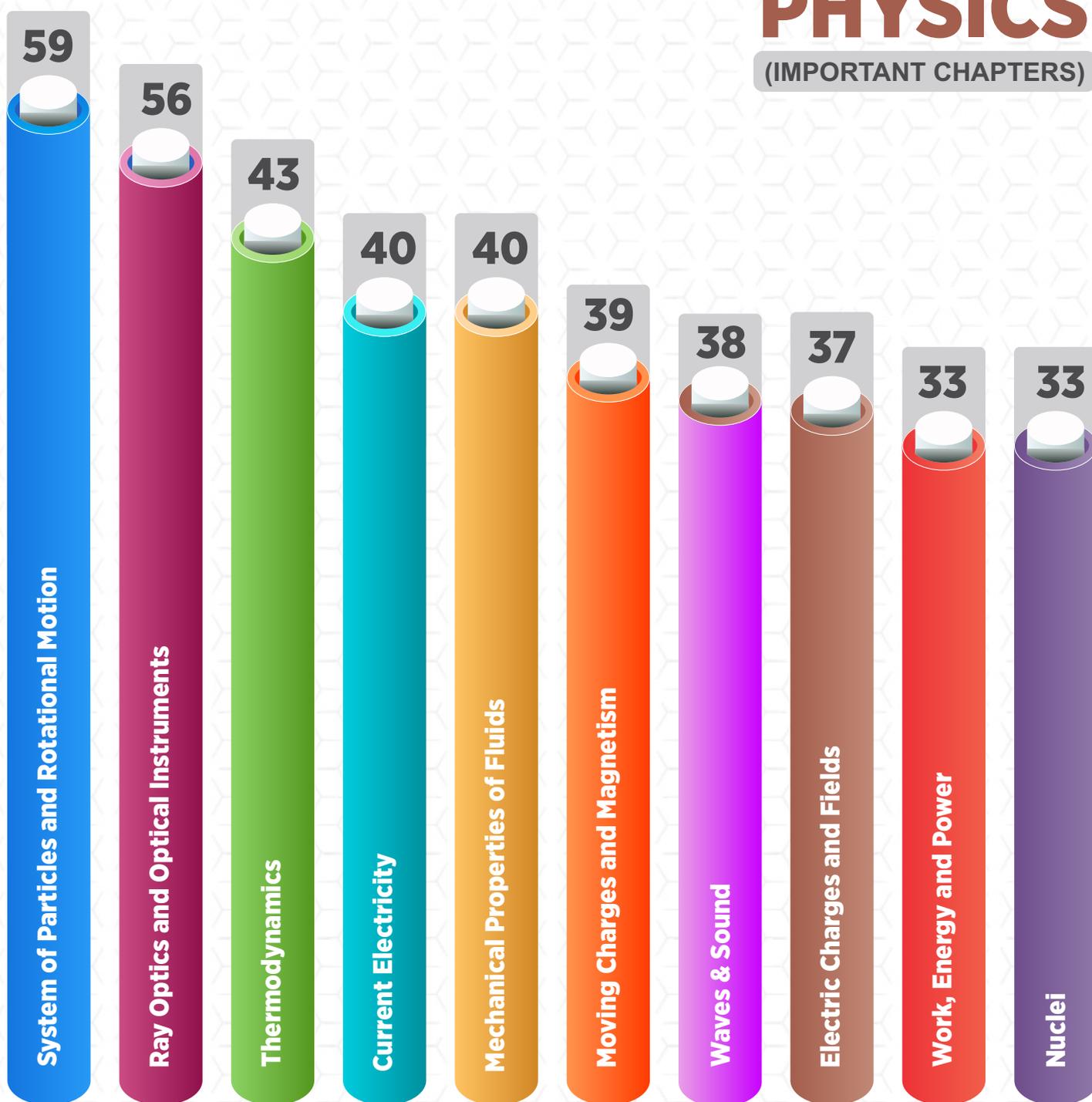
# Chapter-wise Distribution of Questions Asked in

# JEE (Advanced)

(IN LAST 18 YEARS)

## PHYSICS

(IMPORTANT CHAPTERS)





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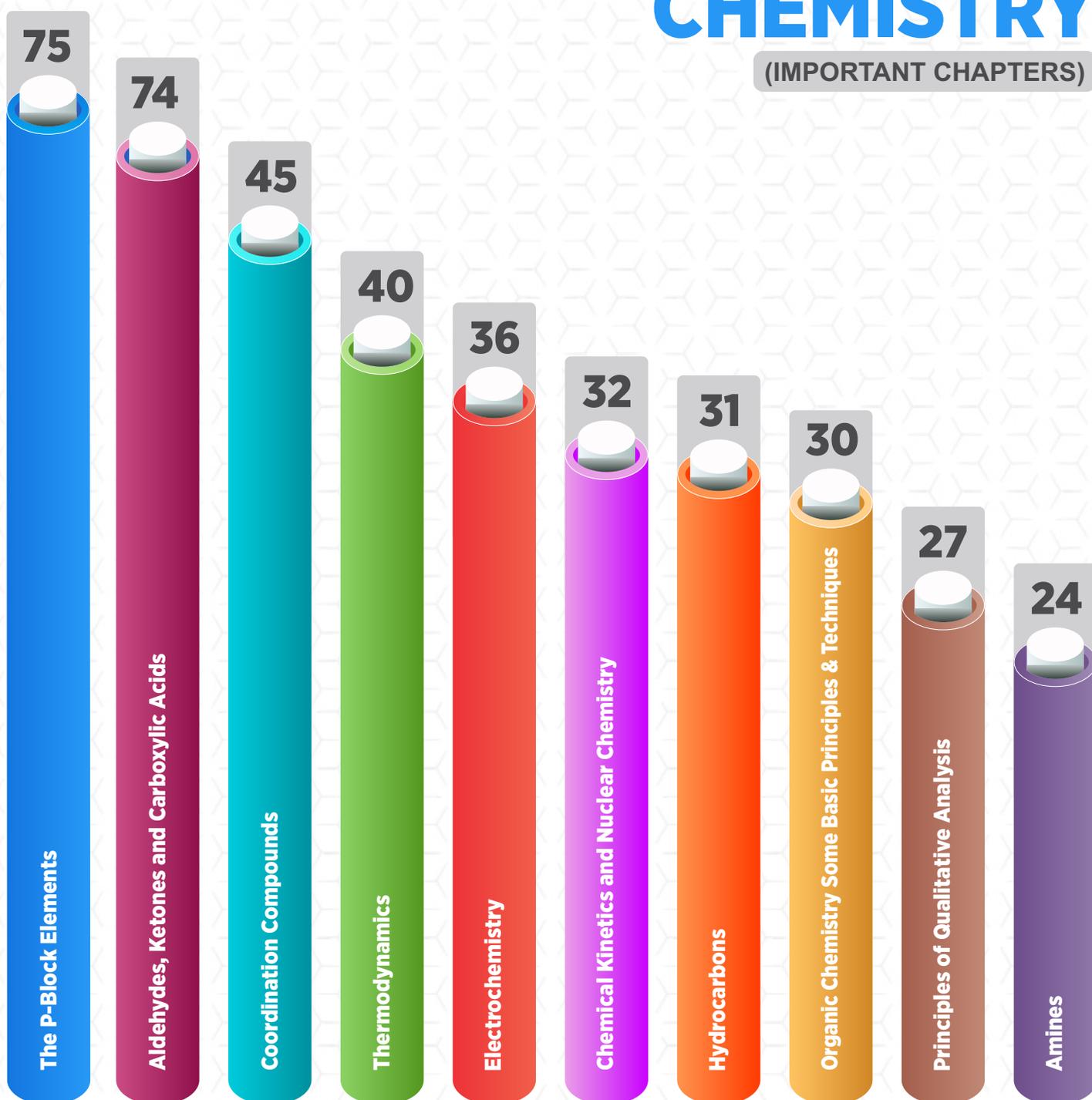
# Chapter-wise Distribution of Questions Asked in

# JEE (Advanced)

(IN LAST 18 YEARS)

## CHEMISTRY

(IMPORTANT CHAPTERS)





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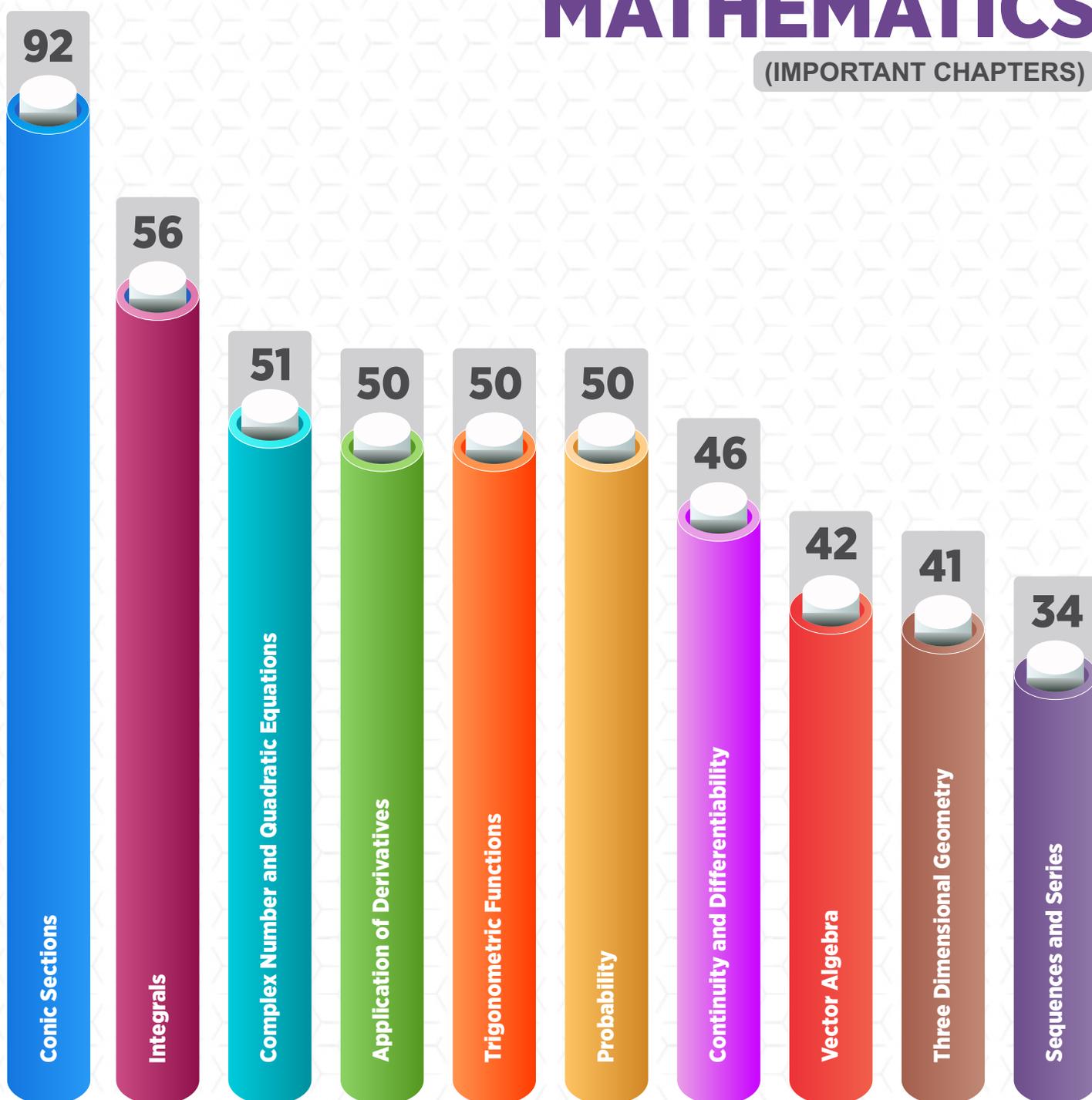
# Chapter-wise Distribution of Questions Asked in

# JEE (Advanced)

(IN LAST 18 YEARS)

## MATHEMATICS

(IMPORTANT CHAPTERS)





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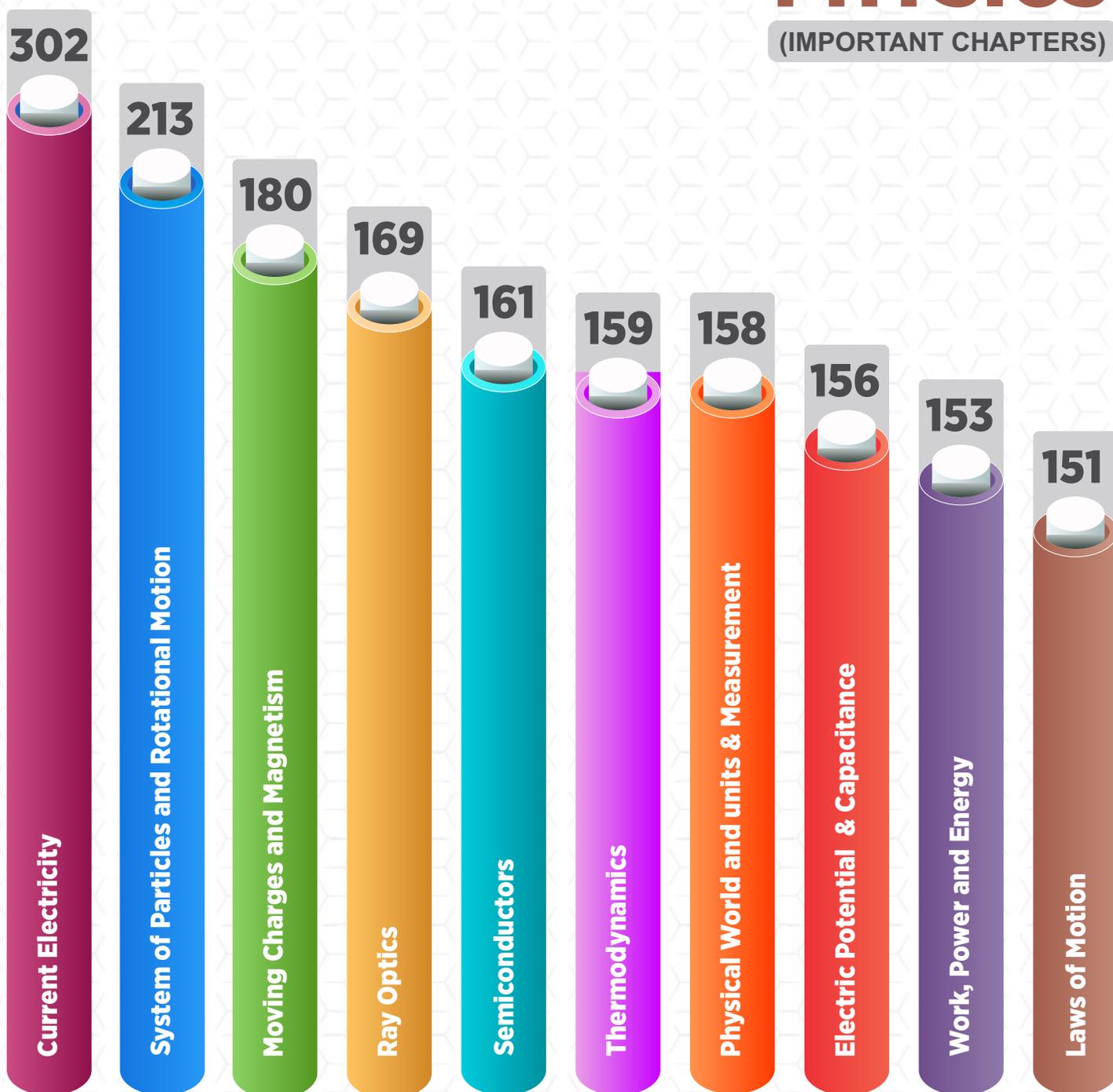
# Chapter-wise Distribution of Questions Asked in

# JEE (Main)

(IN LAST 15 YEARS)

## PHYSICS

(IMPORTANT CHAPTERS)





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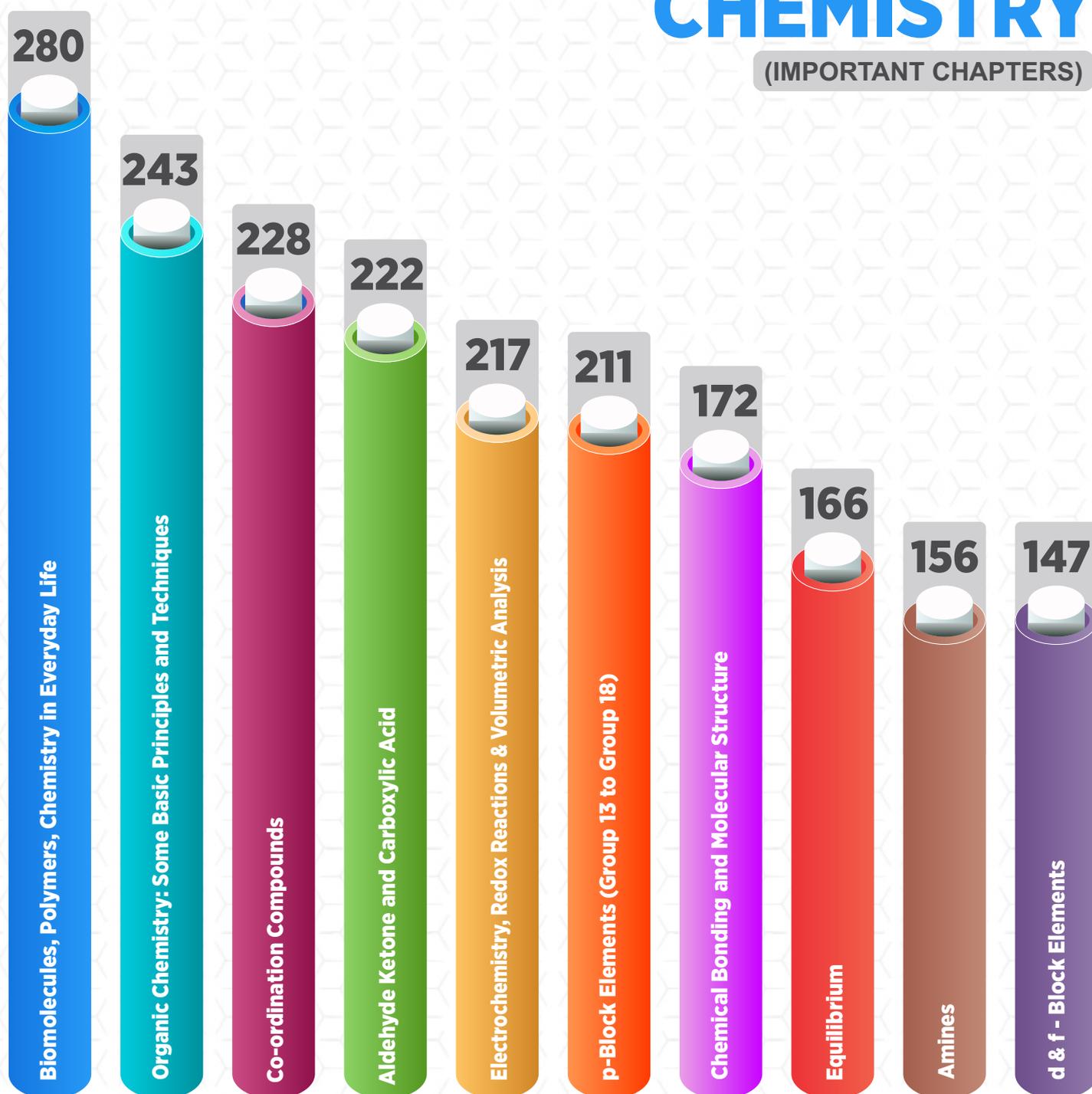
# Chapter-wise Distribution of Questions Asked in

# JEE (Main)

(IN LAST 15 YEARS)

## CHEMISTRY

(IMPORTANT CHAPTERS)





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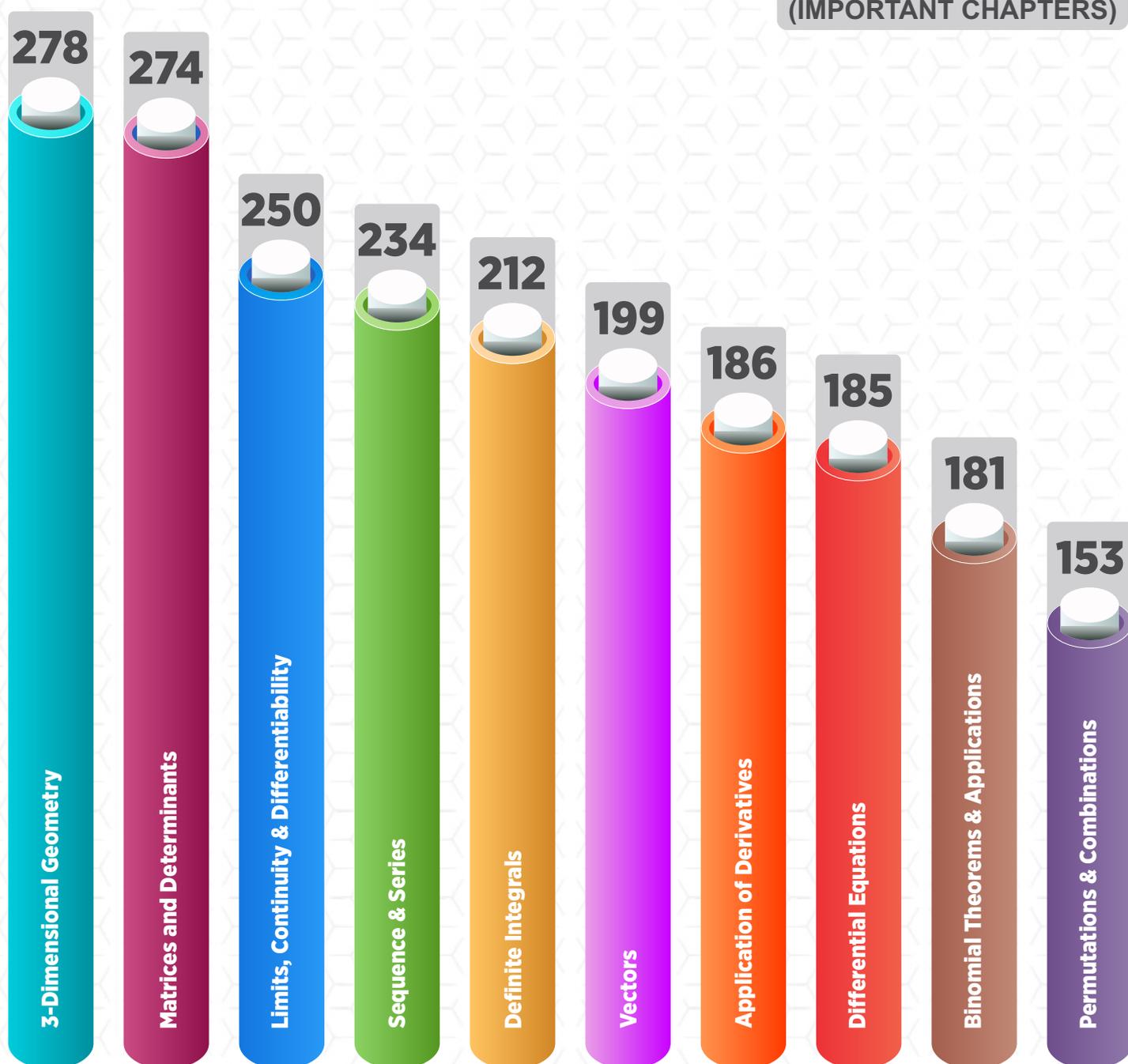
# Chapter-wise Distribution of Questions Asked in

# JEE (Main)

(IN LAST 15 YEARS)

## MATHEMATICS

(IMPORTANT CHAPTERS)



# JEE (Advanced) 2024

## Question Paper Analysis



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### OVERALL MODERATE

#### Physics:

- Difficulty level was on the easier side as compared to JEE (Advanced) 2023.
- Overall paper was in the moderate category.
- Almost equal weightage was given to Class XII and Class XI syllabus.
- Approximately 59% questions asked were from Mechanics & Electromagnetism units.

#### Chemistry:

- Difficulty level was almost the same as that of JEE (Advanced) 2023.
- Overall paper was in the moderate category with few tricky questions especially organic.
- Class XII weightage was more as compared to Class XI syllabus.
- Approximately 74% questions asked were from Organic & Physical chemistry.

#### Mathematics:

- Difficulty Level was slightly on lower side as compared to previous years JEE Advanced papers.
- The questions were mostly on the moderate side of difficulty level with the exception of few difficult questions.
- Class XI syllabus got nearly 40% and Class XII syllabus got more than 60% weightages in the paper.



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# Detailed Analysis of **JEE (Advanced) 2024**

## **Physics:**

- Approximately 53% questions belong to moderate category and 15% belong to easy category.
- In Mechanics, important chapters were System of particles & Rotational motion, motion in a plane, Fluids, etc.
- In Electromagnetism, important chapters were Current Electricity, Moving charges & Magnetism, Electric charges and fields, Electrostatic Potential & capacitance etc.
- In remaining units, majority of questions were asked from Optics then Oscillation & Waves, then Modern Physics and then Heat and Thermodynamics.

## **Chemistry:**

- XII and XI portion was in 76 : 24 ratio.
- Approximately 65% questions belong to easy to moderate category.
- In Physical, important chapters were Atomic Structure, Electrochemistry, Chemical kinetics, Thermodynamics, solutions & colligative properties.
- In Organic, important chapters were Aldehydes, ketones & carboxylic acids, Amines, Hydrocarbons, Biomolecules etc.
- In Inorganic, important chapters were P-block elements, Principles of Qualitative analysis, Coordination compounds etc.

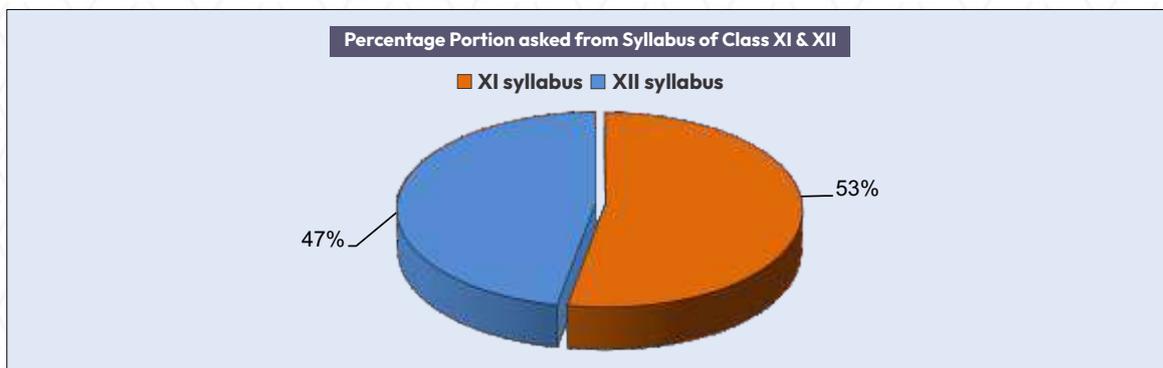
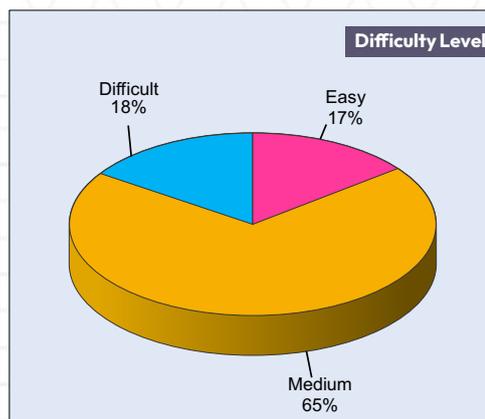
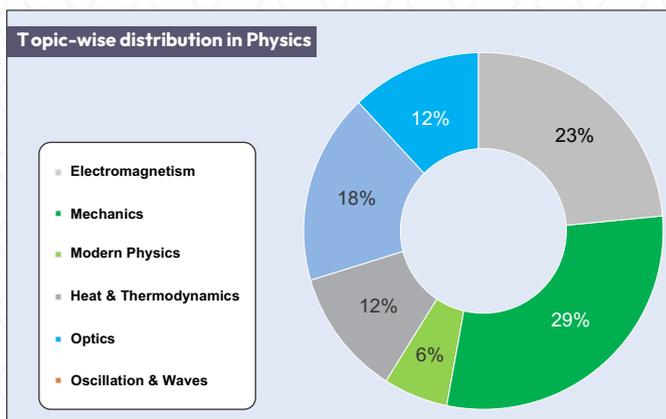
## **Mathematics:**

- Only Algebra & Calculus covered up almost 60 % of the paper.
- Coordinate geometry got a weightage of 12%.
- Vectors, 3D and Probability were some of the high weightage chapters.
- Matrices & Determinants contributed maximum from Algebra.

# ANALYSIS OF PHYSICS PORTION JEE (Advanced) 2024 (Paper-1)

Topics	Syllabus	Easy	Medium	Difficult	Total	%age
Electromagnetism	XII Class	0	4	0	4	23.53%
Mechanics	XI Class	1	3	1	5	29.41%
Modern Physics	XII Class	0	0	1	1	5.88%
Heat & Thermodynamics	XI Class	1	1	0	2	11.76%
Optics	XII Class	0	2	1	3	17.65%
Oscillation & Waves	XI Class	1	1	0	2	11.76%
<b>Total</b>		<b>3</b>	<b>11</b>	<b>3</b>	<b>17</b>	<b>100%</b>

Class	Number of Questions
XI	9
XII	8



## Delivering Champions Consistently

**JEE (Advanced) 2024**

  
**AIR 25**  
 Rishi Shekher Shukla  
 2 Year Classroom

  
**AIR 67**  
 Krishna Sai Shetty  
 4 Year Classroom

  
**AIR 78**  
 Abhishek Jain  
 4 Year Classroom

  
**AIR 93**  
 Hardik Aggarwal  
 2 Year Classroom

  
**AIR 95**  
 Ujjwal Singh  
 4 Year Classroom

  
**AIR 98**  
 Rochit Aggarwal  
 4 Year Classroom

**JEE (Main) 2024**

  
**1**  
 Sarvi Jain  
 4 Year Classroom  
Karnataka Topper

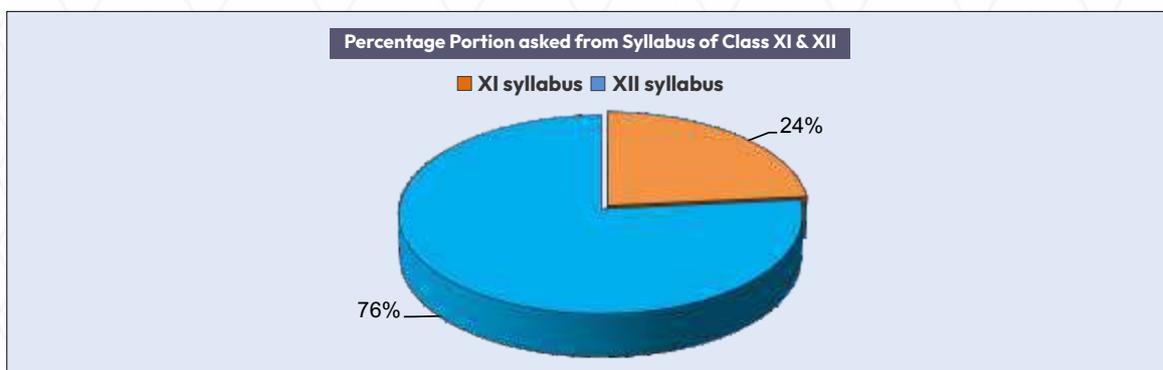
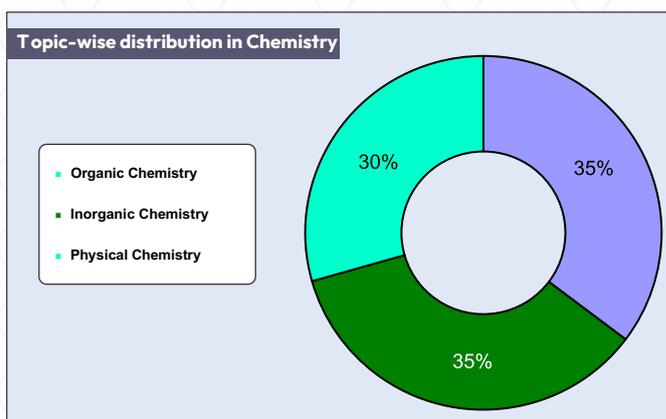
  
**15**  
 M Sai Divya Teja Reddy  
 2 Year Classroom  
Telangana Topper

  
**19**  
 Rishi Shekher Shukla  
 2 Year Classroom  
Telangana Topper

# ANALYSIS OF CHEMISTRY PORTION JEE (Advanced) 2024 (Paper-1)

Topics	Easy	Medium	Difficult	Total	%age
Organic Chemistry	0	1	5	6	35.29%
Inorganic Chemistry	2	4	0	6	35.29%
Physical Chemistry	0	5	0	5	29.41%
<b>Total</b>	<b>2</b>	<b>10</b>	<b>5</b>	<b>17</b>	<b>100%</b>

Class	Number of Questions
XI	4
XII	13



## Delivering Champions Consistently

**JEE (Advanced) 2024**

 <b>AIR 25</b> Rishi Shekher Shukla 2 Year Classroom	 <b>AIR 67</b> Krishna Sai Shikhi 4 Year Classroom	 <b>AIR 78</b> Abhishek Jain 4 Year Classroom	 <b>AIR 93</b> Hardik Aggarwal 2 Year Classroom	 <b>AIR 95</b> Ujjwal Singh 4 Year Classroom	 <b>AIR 98</b> Rochit Aggarwal 4 Year Classroom
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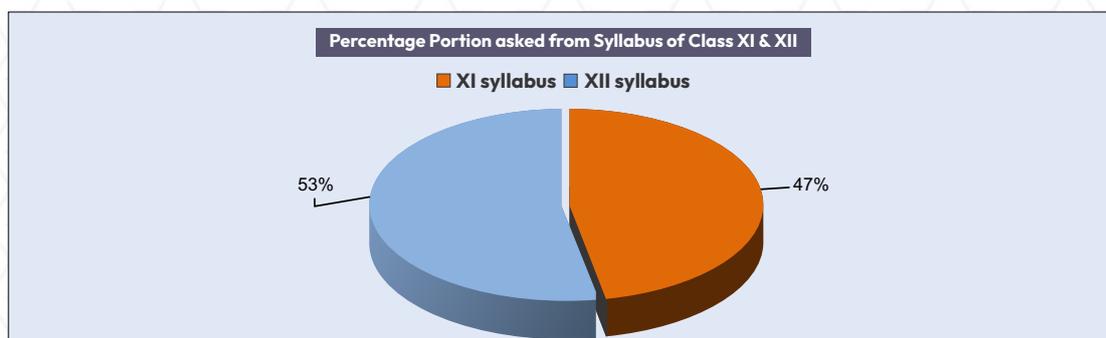
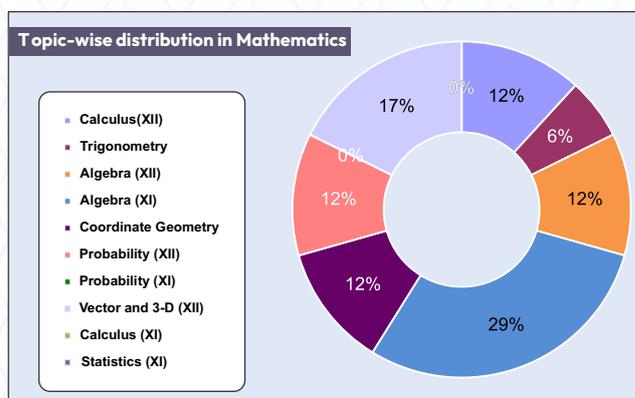
**JEE (Main) 2024**

 <b>1</b> Sarvi Jain 4 Year Classroom	 <b>AIR 15</b> M Sai Divya Teja Reddy 2 Year Classroom	 <b>AIR 19</b> Rishi Shekher Shukla 2 Year Classroom
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# ANALYSIS OF MATHEMATICS PORTION JEE (Advanced) 2024 (Paper-1)

Topics	Syllabus	Easy	Medium	Difficult	Total	%age
Calculus(XII)	XII Class	0	1	1	2	11.76%
Trigonometry	XI Class	0	1	0	1	5.88%
Algebra (XII)	XII Class	0	1	1	2	11.76%
Algebra (XI)	XI Class	0	5	0	5	29.41%
Coordinate Geometry	XI Class	0	1	1	2	11.76%
Probability (XII)	XII Class	0	1	1	2	11.76%
Probability (XI)	XI Class	0	0	0	0	0.00%
Vectors and 3-D (XII)	XII Class	0	2	1	3	17.65%
Calculus(XI)	XI Class	0	0	0	0	0.00%
Statistics (XI)	XI Class	0	0	0	0	0.00%
<b>Total</b>		<b>0</b>	<b>12</b>	<b>5</b>	<b>17</b>	<b>100%</b>

Class	Number of Questions
XI	8
XII	9



**Delivering Champions Consistently**

**AIR 25**  
Rishi Shekher Shukla  
2 Year Classroom

**AIR 67**  
Krishna Sai Shihir  
4 Year Classroom

**AIR 78**  
Abhishek Jain  
4 Year Classroom

**AIR 93**  
Hardik Aggarwal  
2 Year Classroom

**AIR 95**  
Ujjwal Singh  
4 Year Classroom

**AIR 98**  
Rochit Aggarwal  
4 Year Classroom

**Karnataka Topper**  
**100** PERCENTILE RANK  
**1** RANK  
Sarvi Jain  
4 Year Classroom

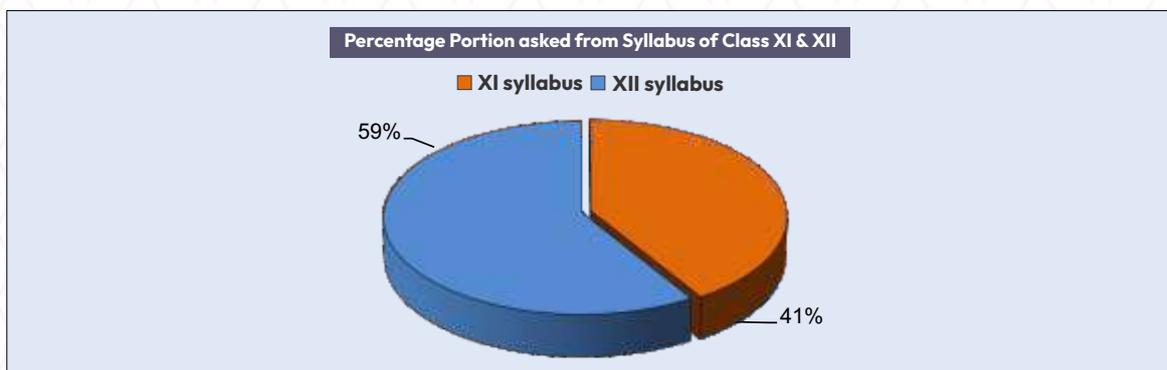
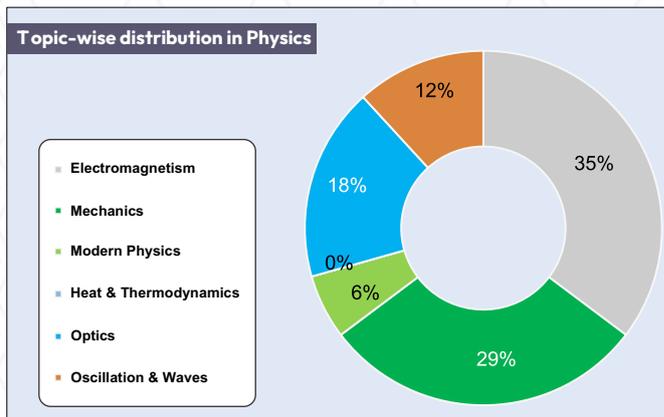
**Telangana Topper**  
**100** PERCENTILE RANK  
**15** RANK  
M Sai Divya Teja Reddy  
2 Year Classroom

**Telangana Topper**  
**100** PERCENTILE RANK  
**19** RANK  
Rishi Shekher Shukla  
2 Year Classroom

# ANALYSIS OF PHYSICS PORTION JEE (Advanced) 2024 (Paper-2)

Topics	Syllabus	Easy	Medium	Difficult	Total	%age
Electromagnetism	XII Class	1	4	1	6	35.29%
Mechanics	XI Class	1	2	2	5	29.41%
Modern Physics	XII Class	0	1	0	1	5.88%
Heat & Thermodynamics	XI Class	0	0	0	0	0.00%
Optics	XII Class	0	0	3	3	17.65%
Oscillation & Waves	XI Class	0	0	2	2	11.76%
<b>Total</b>		<b>2</b>	<b>7</b>	<b>8</b>	<b>17</b>	<b>100%</b>

Class	Number of Questions
XI	7
XII	10



## Delivering Champions Consistently

**JEE (Advanced) 2024**

  
**AIR 25**  
 Rishi Shekher Shukla  
 2 Year Classroom

  
**AIR 67**  
 Krishna Sai Shikhi  
 4 Year Classroom

  
**AIR 78**  
 Abhishek Jain  
 4 Year Classroom

  
**AIR 93**  
 Hardik Aggarwal  
 2 Year Classroom

  
**AIR 95**  
 Ujjwal Singh  
 4 Year Classroom

  
**AIR 98**  
 Rachit Aggarwal  
 4 Year Classroom

**JEE (Main) 2024**

  
**1**  
 Sarvi Jain  
 4 Year Classroom  
Karnataka Topper

  
**15**  
 M Sai Divya Teja Reddy  
 2 Year Classroom  
Telangana Topper

  
**19**  
 Rishi Shekher Shukla  
 2 Year Classroom  
Telangana Topper

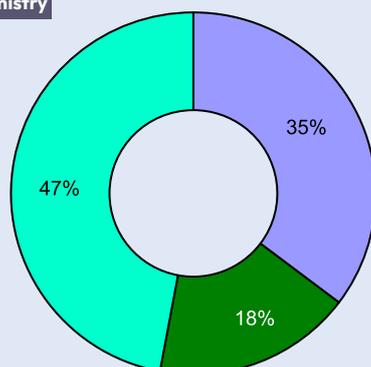
# ANALYSIS OF CHEMISTRY PORTION JEE (Advanced) 2024 (Paper-2)

Topics	Easy	Medium	Difficult	Total	%age
Organic Chemistry	0	5	1	6	35.29%
Inorganic Chemistry	1	2	0	3	17.65%
Physical Chemistry	1	5	2	8	47.06%
<b>Total</b>	<b>2</b>	<b>12</b>	<b>3</b>	<b>17</b>	<b>100%</b>

Class	Number of Questions
XI	4
XII	13

Topic-wise distribution in Chemistry

- Organic Chemistry
- Inorganic Chemistry
- Physical Chemistry

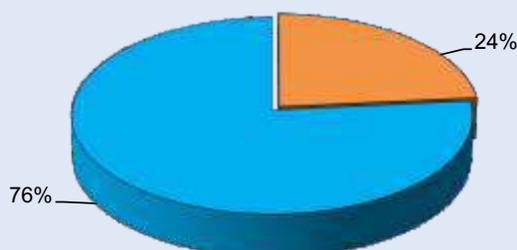


Difficulty Level



Percentage Portion asked from Syllabus of Class XI & XII

- XI syllabus
- XII syllabus



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**JEE (Advanced) 2024**



**AIR 25**  
Rishi Shekher Shukla  
2 Year Classroom



**AIR 67**  
Krishna Sai Shukla  
4 Year Classroom



**AIR 78**  
Abhishek Jain  
4 Year Classroom



**AIR 93**  
Hardik Aggarwal  
2 Year Classroom



**AIR 95**  
Ujjwal Singh  
4 Year Classroom



**AIR 98**  
Rochit Aggarwal  
4 Year Classroom

**JEE (Main) 2024**

Karnataka Topper



**100 PERCENTILE RANK**  
**1**  
Sarvi Jain  
4 Year Classroom

Telangana Topper



**100 PERCENTILE RANK**  
**15**  
M Sai Divya Teja Reddy  
2 Year Classroom

Telangana Topper

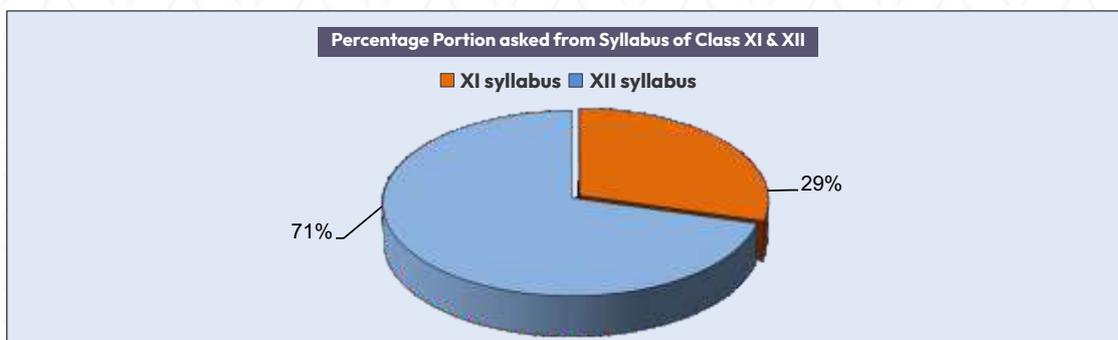
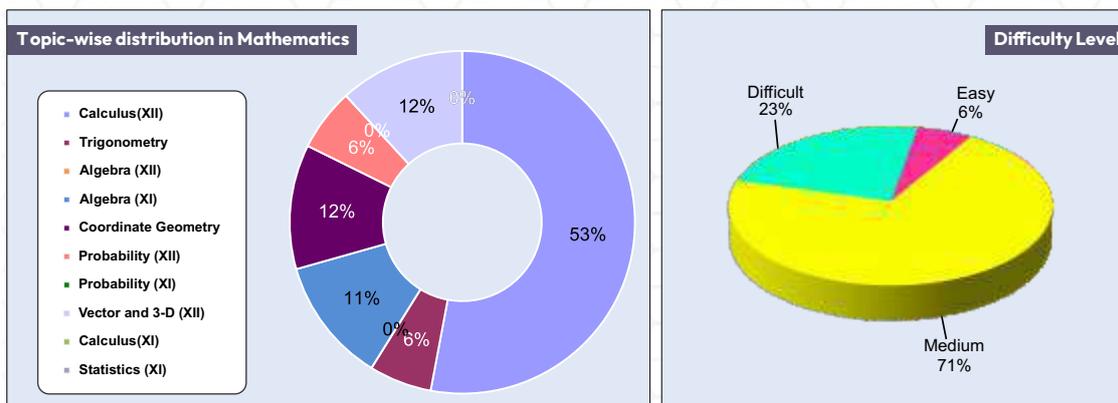


**100 PERCENTILE RANK**  
**19**  
Rishi Shekher Shukla  
2 Year Classroom

# ANALYSIS OF MATHEMATICS PORTION JEE (Advanced) 2024 (Paper-2)

Topics	Syllabus	Easy	Medium	Difficult	Total	%age
Calculus(XII)	XII Class	0	7	2	9	52.94%
Trigonometry	XI Class	1	0	0	1	5.88%
Algebra (XII)	XII Class	0	0	0	0	0.00%
Algebra (XI)	XI Class	0	0	2	2	11.76%
Coordinate Geometry	XI Class	0	2	0	2	11.76%
Probability (XII)	XII Class	0	1	0	1	5.88%
Probability (XI)	XI Class	0	0	0	0	0.00%
Vectors and 3-D (XII)	XII Class	0	2	0	2	11.76%
Calculus(XI)	XI Class	0	0	0	0	0.00%
Statistics (XI)	XI Class	0	0	0	0	0.00%
<b>Total</b>		<b>1</b>	<b>12</b>	<b>4</b>	<b>17</b>	<b>100%</b>

Class	Number of Questions
XI	5
XII	12



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**JEE (Advanced) 2024**

  
**AIR 25**  
 Rishi Shekher Shukla  
 2 Year Classroom

  
**AIR 67**  
 Krishna Sai Shikha  
 4 Year Classroom

  
**AIR 78**  
 Abhishek Jain  
 4 Year Classroom

  
**AIR 93**  
 Hardik Aggarwal  
 2 Year Classroom

  
**AIR 95**  
 Ujjwal Singh  
 4 Year Classroom

  
**AIR 98**  
 Rachit Aggarwal  
 4 Year Classroom

**JEE (Main) 2024**

  
**AIR 1**  
 Sarvi Jain  
 4 Year Classroom  
Karnataka Topper

  
**AIR 15**  
 M Sai Divya Teja Reddy  
 2 Year Classroom  
Telangana Topper

  
**AIR 19**  
 Rishi Shekher Shukla  
 2 Year Classroom  
Telangana Topper



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# JEE (Main) 2024

## Question Paper Analysis

**OVERALL MODERATE**

### Physics:

- Difficulty level was similar in comparison to JEE (Main) 2023.
- Overall paper was in the easy to moderate category with only 2% difficult questions.
- Class XII weightage was higher than Class XI.
- Approximately 70% questions asked were from Mechanics & Electromagnetism units.

### Chemistry:

- Difficulty level was on little bit easier side as compared to JEE Main 2023.
- Overall paper was in the easy to moderate category with few difficult questions.
- Class XI weightage was slightly more as compared to Class XII syllabus.
- Approximately equal weightage was given to all three units i.e., Organic, Inorganic & Physical Chemistry.

### Mathematics:

- Difficulty level was similar to that of the JEE Main 2023.
- Majority of the questions were on moderate side of difficulty level.
- Almost equal weightage was given to class XI and XII Syllabi.
- Calculus and Algebra covered maximum number of questions.



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# Detailed Analysis of **JEE (Main) 2024**

## **Physics:**

- Approximately 98% questions belong to easy to moderate category
- In Mechanics, important chapters were System of particles & Rotational motion, Units and Measurement, Work, Energy & Power etc.
- In Electromagnetism, important chapters were Current Electricity, Electric Potential & Capacitance, Moving Charges & Magnetism etc.
- In remaining units, majority of questions were asked from Modern Physics, then equal weightage was given to Heat & Thermodynamics and Optics, thereafter Oscillation & Waves

## **Chemistry:**

- Approximately 90% questions belong to easy to moderate category
- In Organic, important chapters were Biomolecules, Aldehyde, Ketone & Carboxylic Acid, Some Basic Principles & Techniques etc.
- In Inorganic, most of the questions were asked from NCERT, important chapters were Chemical Bonding, Co-ordination Compounds, P-block elements, (basic only).
- In Physical Chemistry, important chapters were Liquid Solutions, Electrochemistry, Redox reactions, Equilibrium, Thermodynamics, Chemical Kinetics etc.
- Due to deletion of many Inorganic chapters, paper became relatively easy as compared to JEE Main 2023.

## **Mathematics:**

- Almost 80% of the questions can be classified as of moderate level of difficulty.
- Matrices and Determinants contributed maximum from Class XII Algebra.
- Algebra from Class XI contributed to 22-25% of the questions.
- Most important chapters from calculus can be concluded to be Applications of Derivatives, Definite Integrals & Differential Equations.
- Binomial theorem, Complex numbers and sequences & series proved out to be most regularly asked topics.

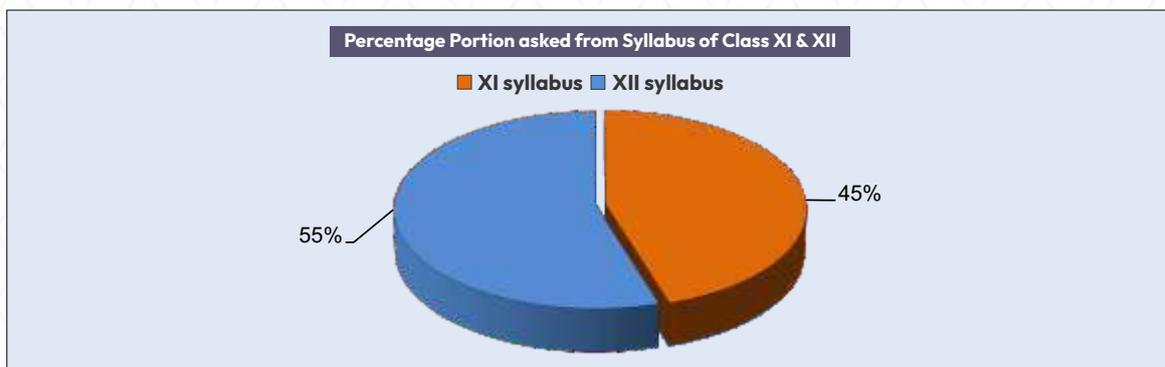
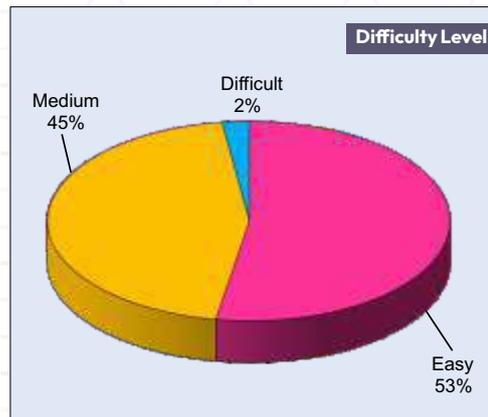
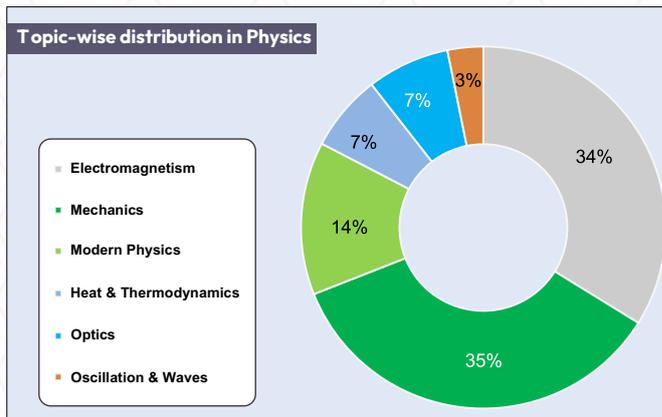
# ANALYSIS OF PHYSICS PORTION JEE (Main) 2024 (Sum of 2 Sessions)



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Topics	Syllabus	Easy	Medium	Difficult	Total	%age
Electromagnetism	XII Class	108	91	4	203	33.83%
Mechanics	XI Class	107	98	6	211	35.17%
Modern Physics	XII Class	45	37	0	82	13.67%
Heat & Thermodynamics	XI Class	23	17	1	41	6.83%
Optics	XII Class	25	17	2	44	7.33%
Oscillation & Waves	XI Class	8	11	0	19	3.17%
<b>Total</b>		<b>316</b>	<b>271</b>	<b>13</b>	<b>600</b>	<b>100%</b>

Class	Number of Questions
XI	271
XII	329



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**JEE (Advanced) 2024**

**AIR 25**  
Rishi Shekher Shukla  
2 Year Classroom

**AIR 67**  
Krishna Sai Shikhi  
4 Year Classroom

**AIR 78**  
Abhishek Jain  
4 Year Classroom

**AIR 93**  
Hardik Aggarwal  
2 Year Classroom

**AIR 95**  
Ujjwal Singh  
4 Year Classroom

**AIR 98**  
Rachit Aggarwal  
4 Year Classroom

**JEE (Main) 2024**

**1**  
Sarvi Jain  
4 Year Classroom  
Karnataka Topper

**15**  
M Sai Divya Teja Reddy  
2 Year Classroom  
Telangana Topper

**19**  
Rishi Shekher Shukla  
2 Year Classroom  
Telangana Topper

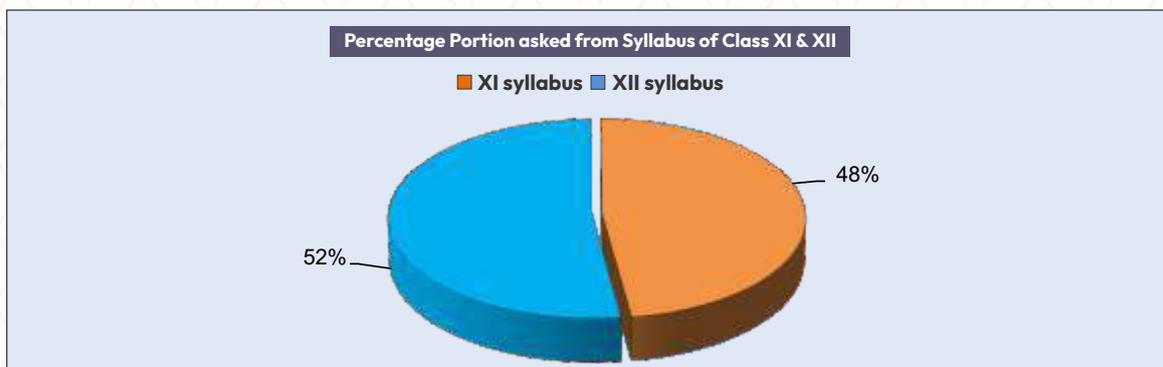
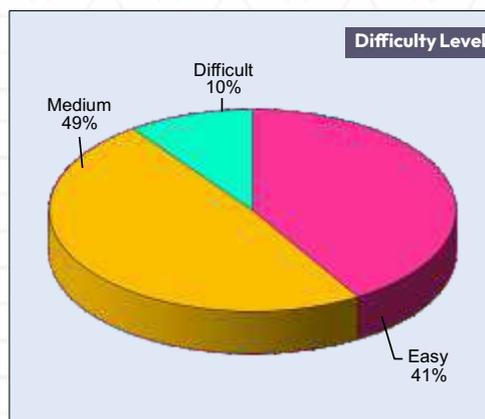
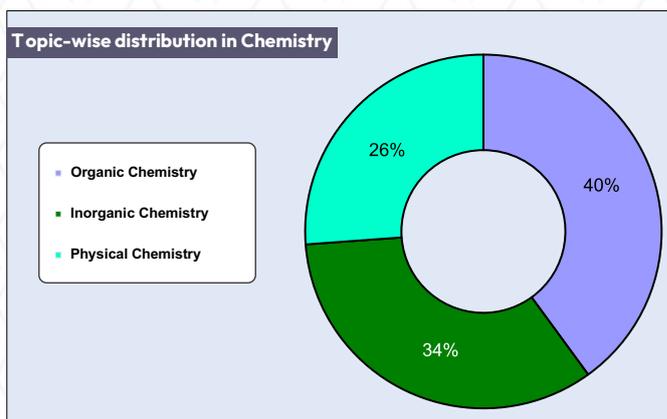
# ANALYSIS OF CHEMISTRY PORTION JEE (Main) 2024 (Sum of 2 Sessions)



**Aakash**  
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Topics	Easy	Medium	Difficult	Total	%age
Organic Chemistry	108	111	21	240	40.00%
Inorganic Chemistry	80	104	19	203	33.83%
Physical Chemistry	60	77	20	157	26.17%
<b>Total</b>	<b>248</b>	<b>292</b>	<b>60</b>	<b>600</b>	<b>100%</b>

Class	Number of Questions
XI	287
XII	313



## Delivering Champions Consistently

**JEE (Advanced) 2024**

 AIR 25 Rishi Shekher Shukla 2 Year Classroom	 AIR 67 Krishna Sai Shikhi 4 Year Classroom	 AIR 78 Abhishek Jain 4 Year Classroom	 AIR 93 Hardik Aggarwal 2 Year Classroom	 AIR 95 Ujjwal Singh 4 Year Classroom	 AIR 98 Rachit Aggarwal 4 Year Classroom
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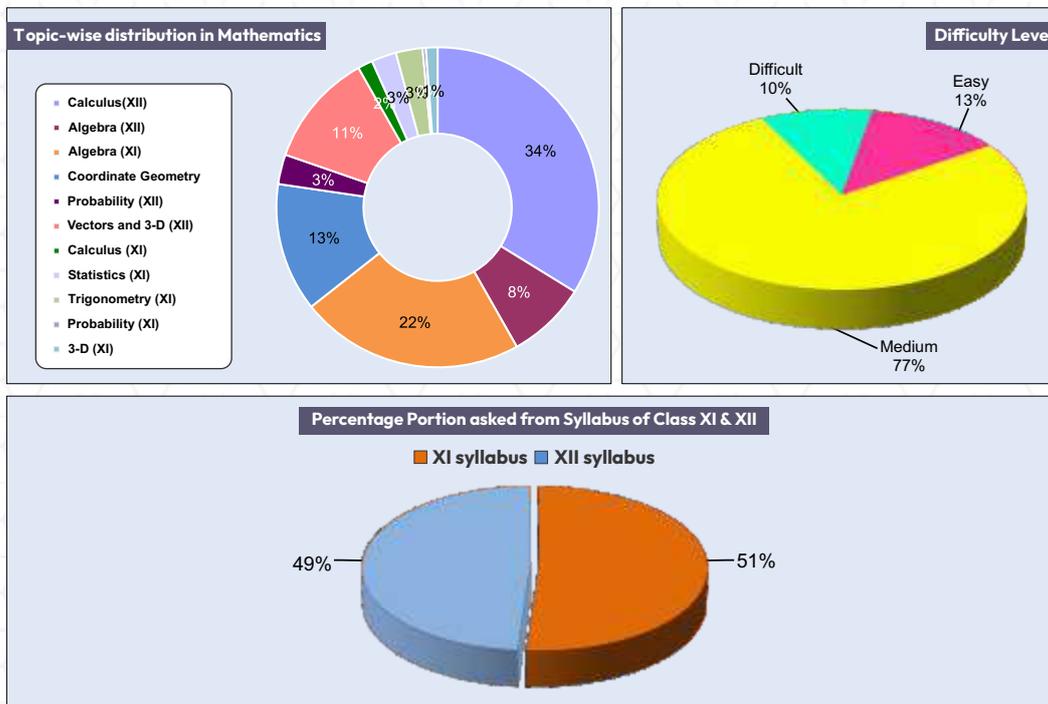
**JEE (Main) 2024**

 Karnataka Topper 100 PERCENTILE AIR 1 Sarvi Jain 4 Year Classroom	 Telangana Topper 100 PERCENTILE AIR 15 M Sai Divya Teja Reddy 2 Year Classroom	 Telangana Topper 100 PERCENTILE AIR 19 Rishi Shekher Shukla 2 Year Classroom
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# ANALYSIS OF MATHEMATICS PORTION JEE (Main) 2024 (Sum of 2 Sessions)

Topics	Syllabus	Easy	Medium	Difficult	Total	%age
Calculus(XII)	XII Class	31	149	23	203	33.83%
Algebra (XII)	XII Class	3	43	2	48	8.00%
Algebra (XI)	XI Class	21	98	16	135	22.50%
Coordinate Geometry	XI Class	6	67	5	78	13.00%
Probability (XII)	XII Class	3	13	2	18	3.00%
Vectors and 3-D (XII)	XI Class	5	59	5	69	11.50%
Calculus(XI)	XII Class	2	5	2	9	1.50%
Statistics (XI)	XII Class	2	7	6	15	2.50%
Trigonometry (XI)	XI Class	2	13	1	16	2.67%
Probability (XI)	XI Class	1	1	0	2	0.33%
3-D (XI)	XI Class	0	7	0	7	1.17%
<b>Total</b>		<b>76</b>	<b>462</b>	<b>62</b>	<b>600</b>	<b>100%</b>

Class	Number of Questions
XI	307
XII	293



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# Outstanding Performance by Aakashians in JEE (Advanced) 2024 & 2023

## 3081

2819 Classroom  
262 Distance & Digital

Aakashians Qualified  
in **JEE (Adv.) 2024**

AIR  
**25**



**Rishi S. Shukla**  
2 Year Classroom

AIR  
**67**



**Krishna Sai Shishir**  
4 Year Classroom

AIR  
**78**



**Abhishek Jain**  
4 Year Classroom

## 2340

2160 Classroom  
180 Distance & Digital

Aakashians Qualified  
in **JEE (Adv.) 2023**

AIR  
**27**



**Aditya Neeraje**  
2 Year Classroom

AIR  
**28**



**Aakash Gupta**  
1 Year Classroom

AIR  
**29**



**Tanishq Mandhane**  
4 Year Classroom

## OUR TOPPERS

### 2024



**Rishi Shekher Shukla**  
2 Year Classroom

**25** AIR  
JEE (Adv.)

### 2023



**Aditya Neeraje**  
2 Year Classroom

**27** AIR  
JEE (Adv.)

### 2022



**Tanishka Kabra**  
4 Year Classroom

ALL INDIA RANK  
(Female) **1** AIR-16  
JEE (Adv.)

### 2021



**Anmol Arichwal**  
4 Year Classroom

**58** AIR  
JEE (Adv.)

# Outstanding Performance by Aakashians in JEE (Main) 2024 & 2023

## 13485

12527 Classroom  
958 Distance & Digital

Aakashians Qualified  
in **JEE (Main) 2024**



AIR  
**15**

**M S Divya Teja R**  
2 Year Classroom



AIR  
**19**

**Rishi Shekher Shukla**  
2 Year Classroom



AIR  
**25**

**Rachit Aggarwal**  
4 Year Classroom

## 12918

11473 Classroom  
1445 Distance & Digital

Aakashians Qualified  
in **JEE (Main) 2023**



**CHHATTISGARH  
TOPPER**

AIR  
**8**

**Dhruv Sanjay Jain**  
4 Year Classroom



**CHANDIGARH  
TOPPER**

AIR  
**21**

**Kamyak Channa**  
4 Year Classroom



AIR  
**46**

**Anoop Singh**  
4 Year Classroom

## OUR TOPPERS

### 2024



**M S Divya  
Teja R**  
2 Year Classroom

**15** AIR  
JEE (Main)

### 2023



**Dhruv  
Sanjay Jain**  
4 Year Classroom

**8** AIR  
JEE (Main)

### 2022



**Hemanshu  
Garg**  
5 Year Classroom

**35** AIR  
JEE (Main)

### 2021



**Pravar  
Kataria**  
5 Year Classroom

**3** AIR  
JEE (Main)



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