|          |            |                        |        |  |            | R2                                    | 4 Course Stru | cture - B.Tech C | SE AIML Program | m  |     |    |         |      |       |            |
|----------|------------|------------------------|--------|--|------------|---------------------------------------|---------------|------------------|-----------------|----|-----|----|---------|------|-------|------------|
| Parent   | Sub        | Course Code            | Level  | Course Title                           | Abb        | L                                     | т             | Р                | s               | I. | с   | СН | PRE-REQ | S/NS | MOOCS | EVAL       |
|          | -          | -                      |        |  |            | Semester - 1                          |               |                  |                 |    | •   | -  |         |      |       |            |
|          |            |                        | 100    | Engineering                            |            |                                       |               |                  |                 |    |     |    |         |      |       |            |
| FC       | BSC        | 24PHY101               | 100    | Physics                                | EPY        |                                       |               |                  |                 |    |     |    |         |      |       |            |
|          |            |                        |        | Environmental<br>Chemistry &           |            |                                       |               |                  |                 |    |     |    |         |      |       |            |
|          |            |                        |        | Engineering                            |            |                                       |               |                  |                 |    |     |    |         |      |       |            |
| FC       | BSC        | 24CHE201               | 100    | Biology*                               | ECB        | 3                                     | 0             | 0                | 0               | 0  | 3   | 3  |         |      |       |            |
| FC       | ESC        | 24CSE102               | 100    | Problem Solving ar                     | PCP        | 3                                     | 0             | 0                | 0               | 0  | 3   | 3  |         |      |       |            |
| FC       | BSC        | 24MAT103               | 100    | Calculus                               | CAL        | 2                                     | 1             | 0                | 0               | 0  | 3   | 3  |         |      |       |            |
| UC       | AEC        | 24ENG104               | 100    | English for Skill Enl                  | ESE        | 2                                     | 0             | 0                | 0               | 0  | 2   | 2  |         |      |       |            |
| FC       | ESC        | 24EEE105               | 200    | Elements of Electri                    | EEE        | 3                                     | 0             | 0                | 0               | 0  | 3   | 3  |         |      |       |            |
| UC       | AEC        | 24ENGL106              | 100    | Oral Communication                     | CS1        | 0                                     | 0             | 2                | 0               | 0  | 1   | 2  |         |      |       |            |
|          |            |                        |        | Engineering<br>Physics Lab[Eng         |            |                                       |               |                  |                 |    |     |    |         |      |       |            |
| FC       | BSC        | 24PHYL107              | 100    | Physics Comb]                          | EPL        |                                       |               |                  |                 |    |     |    |         |      |       |            |
| PC       | SDD        | 24CSEL109              | 100    | Fundamentals of V                      | WEB        | 0                                     | 0             | 4                | 0               | 0  | 2   | 4  |         |      |       |            |
| FC       | ESC        | 24CSEL108              | 100    | Problem Solving and                    | PCL        | 0                                     | 0             | 4                | 0               | 0  | 2   | 4  |         |      |       |            |
| FC       | ESC        | 24CSEL207              | 100    | IT Workshop                            | ITW        | 0                                     | 0             | 2                | 0               | 0  | 1   | 2  |         |      |       |            |
| UC       | AUC        | 24MC110                | 100    | Induction Program                      | IDP        | 1                                     | 0             | 0                | 0               | 0  | 0   | 1  |         |      |       |            |
|          |            | Total for              | Sem -1 |  |            | 14                                    | 1             | 12               | 0               | 0  | 20  | 27 |         |      |       |            |
|          |            |                        |        |  |            | Semester - 2                          |               |                  |                 |    | 1   |    |         |      |       |            |
| FC       | BSC        | 24PHY101               | 100    | Engineering<br>Physics                 | EPY        |                                       |               |                  |                 |    |     |    |         |      |       | ET         |
|          | 850        | 24111101               | 100    | Environmental                          | LFI        |                                       |               |                  |                 |    |     |    |         |      |       | L1         |
|          |            |                        |        | Chemistry &                            |            |                                       |               |                  |                 |    |     |    |         |      |       |            |
|          |            | 2461/5204              | 100    | Engineering                            | 500        | 2                                     | 0             |                  |                 |    |     |    |         |      |       |            |
| FC<br>FC | BSC<br>BSC | 24CHE201               | 100    | Biology*                               | ECB<br>DMS | 3                                     | 0             | 0                | 0               | 0  | 3 4 | 3  |         |      |       | ET<br>ET   |
| FC       | ESC        | 24MAT202<br>24CSE203   | 100    | Discrete Mathema                       | COA        | 3                                     | 0             | 0                | 0               | 0  | 3   | 3  |         |      |       | ET         |
| FC       | ESC        | 24CSEJ203              | 100    | Computer Organiz                       | DCP        | 2                                     | 0             | 4                | 0               | 0  | 4   | 6  | РСР     |      |       | ET<br>ETP2 |
| UC       | ESC        | 24C3EJ204<br>24CSEL205 | 100    | Programming thro                       | PPY        | 0                                     | 0             | 4                | 2               | 0  | 3   | 6  | PCP     |      |       | ETP2       |
| UC       | AEC        | 24C3EL205<br>24ENGL206 | 100    | Oral Communicatio                      | CS2        | 0                                     | 0             | 2                | 2               | 0  | 2   | 4  |         |      |       | EPS        |
| 00       | ALC        | 24ENGE200              | 100    | Engineering                            | 032        | 0                                     | 0             | 2                | 2               | 0  | 2   | 4  |         |      |       | LFS        |
|          |            |                        |        | Physics Lab[Engg                       |            |                                       |               |                  |                 |    |     |    |         |      |       |            |
| FC       | BSC        | 24PHYL107              | 100    | Physics Comb]                          | EPL        |                                       |               |                  |                 |    |     |    |         |      |       | EP         |
| PC       | SDD        | 24CSEL109              | 100    | Fundamentals of V                      | WEB        | 0                                     | 0             | 4                | 0               | 0  | 2   | 4  |         |      |       | EPP        |
| UC       | HAS        | 24HASL207              | 100    | Sustainability throu                   | SDT        | 0                                     | 0             | 0                | 2               | 0  | 1   | 2  |         |      |       |            |
|          |            | Total for              |        |  |            | 11                                    | 1             | 14               | 6               | 0  | 22  | 32 |         |      |       |            |
| FC       | RPI        | 24AMLI222              | 100    | Social Internship                      | SIP        | 0                                     | 0             | 0                | 0               | 3  | 1   | 0  |         |      |       |            |
|          |            |                        |        |  |            | Semester - 3                          |               |                  |                 |    |     |    |         |      |       |            |
| FC       | BSC        | 24MAT301               | 200    | Linear Algebra                         | LAG        | 3                                     | 1             | 0                | 0               | 0  | 4   | 4  |         |      |       |            |
| PC<br>PC | SDD<br>SDD | 24CSEJ302<br>24CSEJ303 | 200    | Automata and Con<br>Object Oriented Pr | ACD<br>OOP | 3                                     | 0             | 2                | 0               | 0  | 4   | 5  |         |      |       |            |
| PC<br>PC | SDD        | 24CSEJ303<br>24CSEJ304 | 200    | Operating Systems                      | OOP        | 3                                     | 0             | 2                | 0               | 0  | 4   | 5  |         | -    |       |            |
| PC<br>PC | SDD        | 24CSEJ304<br>24CSEJ305 | 200    | Design and Analysi                     | DAA        | 3                                     | 0             | 2                | 0               | 0  | 4   | 5  | DCP     | -    | +     |            |
| UC       | SEC        | 24C3EJ305<br>24SEC306  | 100    | Soft Skills 1 -Reaso                   | SS1        | 0                                     | 0             | 0                | 2               | 0  | 1   | 2  | DCr     |      |       |            |
| UC       | SEC        | 243EC308               | 200    | Competitive Progra                     | COP        | 0                                     | 0             | 0                | 2               | 0  | 1   | 2  |         |      |       |            |
| FC       | AUC        | 243EC307<br>24MC30X    | 100    | Sports Bucket/Healt                    |            |                                       | 0             | 0                | 2               | 0  | 0   | 2  |         | ü    |       |            |
| UC       | HAS        | 24HASL308              | 100    | Customer Discover                      | CUD        | 0                                     | 0             | 0                | 2               | 0  | 1   | 2  | SDT     |      |       |            |
|          |            | Total for              |        |  |            | 14                                    | 1             | 10               | 8               | 0  | 23  | 33 |         | 1    |       |            |
|          |            |                        |        |  |            | Semester - 4                          |               |                  |                 |    |     |    |         |      |       |            |
| FC       | BSC        | 24MAT401               | 200    | Probability and Sta                    | PST        | 3                                     | 1             | 0                | 0               | 0  | 4   | 4  |         |      |       |            |
| PC       | SDD        | 24AMLJ402              | 200    | Artificial Intelligen                  | AIL        | 3                                     | 0             | 2                | 0               | 0  | 4   | 5  |         |      |       |            |
| PC       | SDD        | 24AMU403               | 200    | Machine Learning                       | MLN        | 3                                     | 0             | 2                | 0               | 0  | 4   | 5  | LAG     |      |       |            |
|          |            | •                      |        | -1                                     |            | · · · · · · · · · · · · · · · · · · · |               |                  |                 |    |     |    |         |      | •     |            |

| i        |                 | 1                    | 1                | -                                     |                   |              | t       | 1              | 1   | 1                | 1   | 1     | 1       |                  |     |          |
|----------|-----------------|----------------------|------------------|---------------------------------------|-------------------|--------------|---------|----------------|-----|------------------|-----|-------|---------|------------------|-----|----------|
| PC       | SDD             | 24CSEJ404            | 200              | Database Manage                       | DBS               | 3            | 0       | 2              | 0   | 0                | 4   | 5     | ļ       |                  |     | +        |
| PC       | SDC             | 24CSES405            | 200              | Full Stack Applicat                   | FSD               | 0            | 0       | 2              | 2   | 0                | 2   | 4     |         |                  |     |          |
| UC       | SEC             | 24SEC406             | 100              | Soft Skills 2 -Verba                  |                   | 0            | 0       | 0              | 2   | 0                | 1   | 2     |         |                  |     | <b>_</b> |
| UC       | AUC             | 24MC40X              | 100              |                                       | ies /Community Se |              | 0       | 0              | 2   | 0                | 0   | 2     |         | ü                |     | +        |
| UC       | HAS             | 24HASL408            | 200              | Business Model In                     | BMI               | 0            | 0       | 0              | 2   | 0                | 1   | 2     | CUD     |                  |     | +        |
|          |                 |                      | or Sem -4        |                                       |                   | 12           | 1       | 8              | 8   | 0                | 20  | 29    |         |                  |     | +        |
| FC       | RPI             | 24AMLI444            | 200              | Technical Writing                     | TIP               | 0            | 0       | 0              | 0   | 3                | 1   | 0     |         |                  |     | +        |
| 20       | 600             | 246651504            | 200              |                                       | China             | Semester - 5 | â       |                |     | â                |     | -     |         |                  |     | +        |
| PC       | SDD             | 24CSEJ501            | 300              | Computer Networ                       | CNW               | 3            | 0       | 2              | 0   | 0                | 4   | 5     |         |                  |     | +        |
| PC       | SDD             | 24AMLJ502            | 300              | Computer Vision<br>through Open CV    | CVO               | 3            | 0       | 2              | 0   | 0                | 4   | 5     | РСР     |                  |     |          |
| PC       | SDD             | 24AMLJ503            | 300              | Natural Language<br>Processing        | NLP               | 3            | 0       | 2              | 0   | 0                | 4   | 5     | LAG/PST |                  |     |          |
| PE       | PE 1            | Refer PEs            |                  | Program Elective 1                    | *                 | 3            | 0       | 0              | 2   | 0                | 4   | 5     |         |                  |     |          |
| OE       | OE 1            | Refer OEs            | 100              | Open Elective 1#                      |                   | 3            | 0       | 0              | 0   | 0                | 3   | 3     |         |                  |     |          |
| UC       | SEC             | 24SEC5X6             | 200              | Soft Skills 3 Bucket                  |                   |              | 0       | 0              | 2   | 0                | 1   | 2     |         |                  |     |          |
| UC       | SEC             | 24SEC507             | 200              | Code Challenge Ac                     | CAP               | 0            | 0       | 0              | 2   | 0                | 1   | 2     |         |                  |     |          |
| UC       | HAS             | 24HASL50X            | 200              | Foreign Languages                     |                   | 0            | 0       | 2              | 0   | 0                | 1   | 2     |         |                  |     | <u> </u> |
| UC       | HAS             | 24HASL508            | 300              | Investor Readiness                    | IRV               | 0            | 0       | 0              | 2   | 0                | 1   | 2     | BMI     |                  |     |          |
|          |                 | Total fo             | or Sem -5        |                                       |                   | 15           | 0       | 8              | 8   | 0                | 23  | 31    |         |                  |     | <u> </u> |
|          |                 |                      |                  |                                       |                   | Semester - 6 |         | 1              |     |                  |     |       |         |                  |     | +        |
| PC       | SDD             | 24CSEJ601            | 200              | Software Engineer                     | SEG               | 3            | 0       | 2              | 0   | 0                | 4   | 5     |         |                  |     | +        |
|          |                 |                      |                  | Neural Networks<br>and Deep           |                   |              |         |                |     |                  |     |       |         |                  |     |          |
| PC       | SDD             | 24AMLJ602            | 400              | Learning                              | NDL               | 3            | 0       | 2              | 0   | 0                | 4   | 5     | MLN/LAG |                  |     |          |
| PE       | PE 2            | Refer PEs            |                  | Program Elective 2                    |                   | 3            | 0       | 0              | 2   | 0                | 4   | 5     |         |                  |     |          |
| PE       | PE 3            | Refer PEs            |                  | Program Elective 3                    | *                 | 3            | 0       | 0              | 2   | 0                | 4   | 5     |         |                  |     | <u> </u> |
| UC       | AEC             | 24ENGL605            | 200              | Communication<br>Skills - III         | CS3               | 0            | 0       | 2              | 2   | 0                | 2   | 4     |         |                  |     |          |
| PC       | SDC             | 24AMLS606            | 300              | Cloud and Devops                      | CDE               | 0            | 0       | 2              | 2   | 0                | 2   | 4     | FSD     |                  | ü   |          |
| UC       | AUC             | 24MC607              | 100              | Indian<br>Constitution                | INC               | 2            | 0       | 0              | 0   | 0                | 0   | 2     |         | ü                |     |          |
| UC       | HAS             | 24HASL608            | 300              | Product Launch an                     | PLM               | 0            | 0       | 0              | 2   | 0                | 1   | 2     | IRV     |                  |     |          |
|          | •               | Total fo             | or Sem -6        |                                       |                   | 14           | 0       | 8              | 10  | 0                | 21  | 32    |         |                  |     |          |
| FC       | RPI             | 24AMLI666            | 200              | Summer Internshi                      | SUP               | 0            | 0       | 0              | 0   | 4                | 2   | 0     |         |                  |     |          |
|          |                 |                      |                  |                                       |                   | Semester - 7 |         |                |     |                  |     |       |         |                  |     |          |
| PC       | SDD             | 24AMU701             | 400              | Generative AI                         | GAI               | 3            | 0       | 2              | 0   | 0                | 4   | 5     | NDL     |                  |     |          |
| PE       | PE 4            | Refer PEs            |                  | Program Elective 4                    | *                 | 3            | 0       | 0              | 2   | 0                | 4   | 5     |         |                  |     |          |
| OE       | OE 2            | Refer OEs            | 100              | Open Elective 2#                      |                   | 3            | 0       | 0              | 0   | 0                | 3   | 3     |         |                  |     | <u> </u> |
| PC       | SDC             | 24AMLS703            | 300              | Cloud based AI/M                      | CAM               | 0            | 0       | 2              | 2   | 0                | 2   | 4     | CDE     |                  | ü   | +        |
| UC       | HAS             | 24MC704              | 100              | Universal Human                       | UHV               | 2            | 0       | 0              | 0   | 0                | 0   | 2     |         | ü                |     | +        |
| UC       | HAS             | 24HASL705            | 300              | Post-Launch Grow                      | PVM               | 0            | 0       | 0              | 2   | 0                | 1   | 2     | PLM     |                  |     | +        |
| FC       | RPI             | 24AMLI777            | 300              | Capstone Project -                    | IN1               | 0            | 0       | 0              | 0   | 5                | 5   | 5     |         |                  |     | +        |
|          |                 | Total fo             | or Sem -7        |                                       |                   | 11           | 0       | 4              | 6   | 5                | 19  | 26    |         |                  |     | +        |
| OE       | 05.3            | Defer OF:            | 100              | Onen Elective 24                      |                   | Semester - 8 | 0       |                | 0   | -                |     | 2     |         |                  |     | +        |
| UC       | OE 3<br>AUC     | Refer OEs<br>24MC802 | 100              | Open Elective 3#<br>Environmental Stu | EVS               | 2            | 0       | 0              | 0   | 0                | 3   | 3     | +       |                  |     | +        |
| UC<br>FC | RPI             | 24MLI888             | 400              | Capstone Project -                    | EVS<br>IN2        | 0            | 0       | 0              | 0   | 10               | 10  | 10    |         | ü                |     | +        |
| FC       | KPI             |                      | 400<br>or Sem -8 | capstone Project -                    | INZ               | 5            | 0       | 0              | 0   | 10               | 10  | 10    |         |                  |     | +        |
| Total    | Credits and Cor | ntact Hours for B.T  |                  | rogram                                |                   | 96           | 4       | 64             | 46  | 25               | 13  | 225   |         |                  |     | +        |
| iotal    |                 | nuce mould for B.I   | COL MINIL P      | - Shann                               |                   |              |         | IBUTION and SU |     |                  | 105 | 225   |         | 1                |     | 1        |
|          | Category        |                      | Abbr             | Sub Category                          | Abbr              | Credits      | Courses | Total          |     | Cat vs Credits % |     |       |         | U vs AICTE vs UG | r   |          |
|          | Category        |                      | ADDI             | Ability Enhancmer                     | ADDr              | Credits<br>7 | 4       | Total          | Cat | Credits          | %   | Cat   | SU      | AICTE            |     | JGC      |
|          |                 |                      |                  | Skill Enhancement                     | SEC               | 5            | 5       | 1              | UC  | 19               | 12  | HAS   | 19      | 10               | AEC | 8        |
|          |                 |                      | I                |                                       | JLC               | 5            | 5       | 1              |     | 17               | 14  | 11/13 | 13      | 10               | ALC | °        |

|   |  | 1  |  |   | 1  | 1  | ٦   |                           | 1                 | 1                    | 1                   |                   | 1                  | 1 1            |     |
|---|--|--|--|---|--|--|---|---------------------------|-------------------|----------------------|---------------------|-------------------|--------------------|----------------|-----|
|   |  |  | Audit Courses  | AUC   | 0  | 5  | 4   | FC                        | 61                | 38                   | BSC                 | 23                | 16                 | SEC            | 9   |
|   | University Core  | UC   | Humanities and Sc  | HAS   | 7  | 8  | 19  | PC                        | 56                | 35                   | ESC                 | 19                | 8                  | HAS            | 9   |
|   |  |  | Basic Sciences   | BSC   | 23   | 7  |   | PE                        | 16                | 10                   | PC                  | 56                | 71                 |                |     |
|   |  |  | Engineering Science  | ESC   | 19   | 7  | 4   | OE                        | 9                 | 6                    | PE                  | 16                | 16                 | BSC+ESC+PC+PE  |     |
|   | Faculty Core   | FC   | Research, Project a  | RPI   | 19   | 5  | 61  |                           |                   |                      | OE                  | 9                 | 6                  | (Major +Minor) | 112 |
|   |  |  | Standard Courses   | SDD   | 50   | 15   | 4   |                           |                   |                      | RPI                 | 19                | 38                 | RPI            | 16  |
|   | Program Core   | PC   | Skill Development  | SDC   | 6  | 3  | 56  | _                         |                   |                      | AUC                 | -                 | -                  | AUC+OE         | 6   |
|   |  |  | BIO/DSC/BKC/CYS  | PE 1  | 4  | 1  | 1   |                           |                   |                      |                     | 161               | 165                |                | 160 |
|   |  |  | BIO/DSC/BKC/CYS  | PE 2  | 4  | 1  | 4   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  | BIO/DSC/BKC/CYS  | PE 3  | 4  | 1  | 4   |                           |                   |                      |                     | ŀ                 | HAS = AEC + SEC +H | IAS            |     |
|   | Program Electives  | PE   | BIO/DSC/BKC/CYS  | PE 4  | 4  | 1  | 16  |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  | BT/CE/MECH/EE/II   | OE 1  | 3  | 1  |   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  | BT/CE/MECH/EE/II   | OE 2  | 3  | 1  |   | AICTE                     | https://www.aicte | e-india.org/sites/de | fault/files/Model_C | urriculum/Updated | 1-AICTE%20-%20U    | G%20CSE.pdf    |     |
|   | Open Electives   | OE   | BT/CE/MECH/EE/II   | OE 3  | 3  | 1  | 9   |                           |                   |                      |                     |                   |                    |                |     |
|   |  | Total Credits for B.Tech   | CSE AIML   |   |  | 66   | 161   | UGC                       | https://www.ug    | c.gov.in/e-book/F    | YUGP/mobile/inde    | ex.html           |                    |                |     |
|   |  |  |  |   |  |  |   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  |  |   |  |  |   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  |  |   |  |  |   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  |  |   |  |  |   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  |  |   |  |  |   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  |  |   |  |  |   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  |  |   |  |  |   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  |  |   |  |  |   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  |  |   |  |  |   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  |  |   |  |  |   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  |  |   |  |  |   |                           |                   |                      |                     |                   |                    |                |     |
|   |  |  |  |   |  |  |   |                           |                   |                      |                     |                   |                    |                |     |
|   | Core: Fundamental course:  |  |  |   |  | •  |   |                           |                   |                      |                     |                   |                    |                |     |
| Faculty Core<br>Program Con<br>Professional<br>Open Electiv<br>Ability Enha<br>Skill Enhanc<br>Audit Course<br>Liberal Arts:<br>D.Basic Scien<br>1.Engineerin<br>2.Research, F        | Core: Fundamental course:<br>e: Core courses specific to<br>re: Mandatory courses tai<br>I Electives: Specialized ele<br>ves: Flexible elective cours<br>ancement Courses: Course<br>cement Courses: Practical-<br>tes: Mandatory non-credi<br>: Courses in humanities, so<br>neces: Foundational science<br>g Sciences: Core engineer<br>Project and Internship: Ac<br>opment: Industry-aligned                           | a faculty, aimed at bui<br>lored to a specific prog<br>ctive courses offering<br>ses chosen by students<br>s designed to improve<br>focused courses aimed<br>courses undertaken w<br>cial sciences, and crea<br>courses that provide<br>ing courses covering fi<br>ademic initiatives com  | Iding foundationa<br>gram, focusing on<br>advanced knowle<br>i from a wide rang<br>e sesential commu<br>d at building techr<br>ioluntarily for kno<br>titive arts, promot<br>the basic principle<br>undamental conce-<br>bining research, J  | I knowledge in t<br>essential knowl<br>dge and skills re<br>te of disciplines<br>nication, reasor<br>nical, vocational<br>wledge enhance<br>ing critical think<br>es and theories of<br>cpts and applica<br>project work, ar  | the respective a<br>edge and skills v<br>lated to the pro<br>to explore diver<br>ining, and analyti<br>, and soft skills r<br>ement without i<br>ing, design thinl<br>essential for adv<br>tions across var<br>d internships to  | cademic domain<br>within the field of<br>fessional domain<br>se interests.<br>cal skills, enhann<br>elevant to emple<br>mpacting grades<br>king, innovation<br>anced learning.<br>ious technical di<br>foster practical                | n.<br>of study.<br>n.<br>cing overall aca<br>oyability and ca<br>s or GPA.<br>and holistic ed<br>sciplines.                   | areer growth.<br>ucation. | essional competer | ncy.                 |                     |                   |                    |                |     |
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